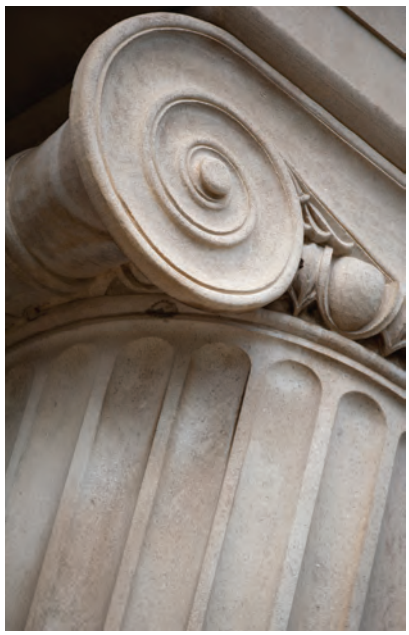
UA 2013 2014 UNDERGRADUATE CATALOG



The University of Alabama Fall 2013–Summer 2014 Undergraduate Catalog

May 2013

The University of Alabama Fall 2013–Summer 2014 Undergraduate Catalog was produced by the Office of the University Registrar, in conjunction with the Office of University Relations, a division of University Advancement, and the Office for Academic Affairs.

NOTE: Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical or printing errors, or error occasioned by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

Equal Opportunity in Education and Employment

The University of Alabama complies with applicable laws prohibiting discrimination, including Titles VI and VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, Executive Order 11246, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans Readjustment Assistance Act, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990, the ADA Amendments Act of 2008, and the Genetic Information Nondiscrimination Act of 2008, and does not discriminate on the basis of genetic information, race, color, religion, national origin, sex, sexual orientation, age, disability or veteran status in admission or access to, or treatment of employment in, its programs and services. Inquiries and concerns regarding this policy may be directed to Ms. Gwendolyn Hood, University Compliance Officer, 171 Rose Administration Building, Box 870300, Tuscaloosa, AL 35487-0300; (205) 348-5855 (voice); (205) 348-5573 (TDD). This notice is available in alternative formats upon request.

The University of Alabama is committed to making its programs and services available to individuals with disabilities and seeks to be responsive to qualified students with disabilities. Enrolled students with disabilities are invited to contact the Office of Disability Services, Box 870185, Tuscaloosa, AL 35487-0185; (205) 348-4285. Those visiting the University for campus tours or special events are encouraged to contact the sponsoring office or department in advance so appropriate provisions may be made.

University of Alabama Bloodborne Pathogen Policy

The University of Alabama bloodborne pathogen policy, approved in February 1993, requires each administrative unit of the University to conduct a risk-appraisal survey during October and November of each year to “identify employees and students at risk for occupational or student academic exposure to bloodborne pathogens.” All units in which students or employees are at risk must then develop an “exposure control plan.” Employees and students at risk are required to receive the hepatitis B vaccination series, submit proof of immunity to the hepatitis B virus (or proof of vaccination), or sign a statement declining the vaccine. Employees and students who are at risk are also required to receive training about bloodborne pathogens. For further information about this policy, contact The University of Alabama, Office of Environmental Health and Safety at (205-348-5905).

Campus Security Report

Each year, The University of Alabama publishes the UA Annual Campus Security Report. It contains crime statistics for the three most recent calendar years. It also details UA security policies and procedures. The Campus Security Report is provided in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and is available online to view or print at safety.ua.edu. The Alabama Department of Public Safety, a state agency, also provides an online listing of sex offenders currently registered with the state. This listing is available on the Alabama Department of Public Safety website at dps.alabama.gov (click on the “National Sex Offender Registry” link). For information regarding the enrollment or employment of registered sex offenders at The University of Alabama, or to request a printed copy of the Campus Security Report, write The University of Alabama, University Police, Attention: Community Services Division, Box 870180, Tuscaloosa, AL 35487-0180; or email ua.police@ua.edu.

Academic Calendar

The University’s current academic calendar is available online at registrar.ua.edu/academics/academic-calendars.

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Administration

The Honorable Robert Bentley

- Governor of Alabama
- Ex Officio President of the Board of Trustees

Thomas R. Bice, Ed.D.

- State Superintendent of Education
- Ex Officio Member of the Board of Trustees

Trustees, by Congressional District

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- Marietta M. Urquhart, Mobile

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- Finis E. St. John IV, Cullman

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- William Britt Sexton, Decator

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- John J. McMahon Jr., Birmingham

Seventh District

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- Robert E. Witt, Tuscaloosa

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- Judith L. Bonner, President
- Mark D. Nelson, Vice President for Student Affairs and Vice Provost
- D. Joe Benson, Vice President for Research and Interim Provost
- Lynda Gilbert, Vice President for Financial Affairs and Treasurer
- Karen Baldwin, Vice President for Advancement
- Samory T. Pruitt, Vice President for Community Affairs

Academic Divisions of the University

College of Arts and Sciences (1910)

- Robert F. Olin, Dean

Culverhouse College of Commerce and Business Administration (1919)

- J. Michael Hardin, Dean

College of Communication and Information Sciences (1973)

- Loy A. Singleton, Dean

College of Community Health Sciences (1971)

- Richard H. Streiffer, Dean

College of Continuing Studies (1919)

- Carolyn C. Dahl, Dean

College of Education (1909)

- Peter Hlebowitsh, Dean

College of Engineering (1909)

- Charles W. Karr, Dean

Graduate School (1924)

- David A. Francko, Dean

Honors College (2003)

- Shane Sharpe, Dean

College of Human Environmental Sciences (1931)

- Milla D. Boschung, Dean

School of Law (1872)

- Kenneth C. Randall, Dean

Capstone College of Nursing (1976)

- Sara E. Barger, Dean

School of Social Work (1965)

- Lucinda L. Roff, Interim Dean

About the University

Mission and Objectives

The University of Alabama, the state of Alabama's oldest public university, is a senior comprehensive doctoral-level institution. The University was established by constitutional provision under statutory mandates and authorizations. Its mission is to advance the intellectual and social condition of the people of the state through quality programs of teaching, research and service.

Activities to Support the Mission

The University of Alabama's activities emerge from a broad range of research and creative activities, many of which are recognized for their contributions to the economic, technological and cultural growth of the state. Research and creative activity yields continuing stimulation for the instructional programs offered by the University's colleges and schools, supported by the Amelia Gorgas Library, a member of the Association of Research Libraries. At the undergraduate level, the University offers a broad range of baccalaureate programs in the arts and humanities, science and technology, preprofessional and professional fields. A University-wide core curriculum provides a general education component as the keystone of every undergraduate program. Graduate programs, built on these undergraduate foundations, concentrate on the development of original scholarship, research and creative activity. Professional programs, including the state's only public law school, prepare students for leadership roles with high levels of competence. As one of the major residential campuses in the state, the University enhances the academic and personal growth of its students through its on-campus environment. Recognizing that education is a lifelong endeavor, the University offers an array of educational opportunities for non-traditional students to study through distance education, including 12 undergraduate programs and 32 online graduate-level programs.

The University's research, creative activities and instructional programs form a foundation for extensive service activities, establishing a number of partnerships with business, nonprofit organizations and government through applications of new knowledge. These relationships often extend beyond the bounds of the state as the University assists developmental efforts at regional, national and international levels.

Location

The University of Alabama (UA) is located in Tuscaloosa, Ala., a city with a metropolitan population of approximately 90,000 in the west-central part of the state. The post office address of The University of Alabama is Tuscaloosa, AL 35487. University grounds comprise some 1,000 acres. The University maintains a center in Gadsden and a governmental relations office in Montgomery.

Separate campuses of the University have been established in Birmingham and Huntsville. These campuses are known as The University of Alabama at Birmingham (UAB) and The University of Alabama in Huntsville (UAH).

Divisions of the University

Vice Presidents' Offices

- Academic Affairs
- Community Affairs
- Financial Affairs
- Research
- Student Affairs
- University Advancement

Academic Units

- College of Arts and Sciences
- Culverhouse College of Commerce and Business Administration
- College of Communication and Information Sciences
- College of Community Health Sciences
- College of Education
- College of Engineering
- Graduate School
- Honors College
- College of Human Environmental Sciences
- School of Law
- Capstone College of Nursing
- School of Social Work

Support Units

- Capstone International
- Center for Communication and Educational Technology
- Center for Teaching and Learning
- College of Continuing Studies
- Libraries at The University of Alabama
- Oak Ridge Associated Universities
- Office of Disability Services
- Office of Information Technology
- Office of Institutional Research and Assessment
- Office of Undergraduate Admissions
- Office of the University Registrar
- Paul W. Bryant Museum
- Technology and Testing
- University of Alabama Museums
- University of Alabama Press
- University Writing Center

Accreditation

The University of Alabama is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, certificate, masters, educational specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097 or call (404) 679-4500 for questions about the accreditation of The University of Alabama.

In addition, selected programs have been accredited by the AACSB International-The Association to Advance Collegiate Schools of Business; ABET, Inc.-Accrediting Board for Engineering and Technology; Accrediting Council on Education in Journalism and Mass Communication; American Association of Family and Consumer Sciences; American Bar Association; American Library Association; Alabama State Department of Education; Alabama State Board of Health; Accrediting Council for Graduate Medical Education; American Psychological Association; American Speech Language-Hearing Association; Association of University Programs in Health Administration; Commission on Accreditation of Athletic Training Education Programs; Commission on Accreditation for Dietetics Education; Commission on Collegiate Nursing Education; Commission on English Language Program Accreditation; Council on Social Work Education; Council for Interior Design Accreditation; Council for Accreditation of Counseling and Related Education Programs; Council on Rehabilitation Education; Liaison Committee for Medical Education; National Association of School Psychologists; National Association of Schools of Art and Design; National Association of Schools of Music; National Association of Schools of Dance; National Association of Schools of Theatre; and the National Council for Accreditation of Teacher Education.

History of the University

1818-1820

- In 1818, the federal government authorized Alabama Territory to set aside a township for the establishment of a "seminary of learning." Alabama was admitted to the Union on March 2, 1819, and a second township was added to the grant. On December 18, 1820, the seminary was officially established and named "The University of the State of Alabama."

1827

- Tuscaloosa, then the state's capital, chosen as the University's home.

1831

- On April 18, inaugural ceremonies were held and the University opened. By May 28, 52 students had enrolled. The campus consisted of seven buildings: two faculty houses, two dormitories, the laboratory, the hotel (now Gorgas House) and the Rotunda.

1837

- The University of Alabama became the first in the state to offer engineering classes. It was one of the first five in the nation to do so and one of the few to have continuously maintained accreditation since national accreditation began in 1936.

1841

- President’s Mansion completed. Its first occupant, Basil Manly, was the University president from 1837 to 1855.
- Total University enrollment: 63

1850

- Alabama Alpha chapter of Phi Beta Kappa established.

1851

- Total University enrollment: 126

1859

- Medical College branch of the University opened in Mobile.

1860

- The University of Alabama became a military school — martial departmental and disciplinary systems established.

1861

- Total University enrollment: 154

1865

- Union troops spared only seven of the buildings on the UA campus. Of the principal buildings remaining today, the President’s Mansion and its outbuildings still serve as the president’s on-campus residence. The other buildings have new uses. Gorgas House — at different times the dining hall, faculty residence and campus hotel — now serves as a museum. The Roundhouse, then a sentry box for cadets and later a place for records storage, is a campus historical landmark. The Observatory, now Maxwell Hall, is home to the Computer-Based Honors Program.

1868

- The Medical College reopens in Mobile.

1871

- During the Reconstruction era, a reorganized University opened to students.
- Total University enrollment: 107

1872

- The School of Law was established.

1881-82

- Antecedents of the UA College of Engineering were established with the offering of a formal, two-year course of study in civil engineering under the aegis of applied mathematics in 1837. The College of Engineering was established in 1909 with the opening of B.B. Comer Hall.
- Total University enrollment: 154

1891

- Total University enrollment: 167

1892

- The University’s first football team assembled — the "Thin Red Line" that later became the "Crimson Tide."

1893

- The first female students enrolled for the fall semester at the University. This was due in large part to the successful lobbying of the UA board of trustees by Julia S. Tutwiler. Tutwiler, then president of the Livingston Normal College for Girls, was a lifelong advocate of women’s rights to be self-supporting members of society.

1894

- The student newspaper, *The Crimson White*, makes its first appearance.

1901

- Total University enrollment: 396

1903

- In March, the Alabama Legislature decreed that, after 30 years of student protest, the military system of organization at the University be abandoned.

1904

- A summer school for teachers began in response to a need for better public education in Alabama, becoming the School of Education in 1909. The College of Education was established in 1929.

1906

- At the University’s diamond jubilee celebration, President John William Abercrombie presented to the board of trustees his plans for the Greater University fund-raising campaign, thus ensuring that the state legislature would no longer be the primary source for financing the University’s growth.

1909

- To meet the demands for specific training in two professions, the College of Engineering and the School of Education were established. Formerly part of the liberal arts disciplines, these new offspring would function independently of the now-reorganized College of Arts and Sciences.

1910

- The Alabama Museum of Natural History in Smith Hall was dedicated. Smith Hall served as a geological museum for the University’s growing collections and still houses the Museum today.

1911

- Total University enrollment: 571

1912

- Dr. George Denny became University president; the campus consisted of 652 students and nine principal buildings. His presidency began an era of unprecedented physical and enrollment growth. When he retired in 1936, there were more than 5,000 students and 23 major buildings which now form the central core of the modern campus.

1914-15

- The University band was organized.

1919

- The School of Commerce was founded. It became the College of Commerce and Business Administration in 1929. It was renamed the Culverhouse College of Commerce and Business Administration in 1997.

1920

- The Medical College moved from Mobile to Tuscaloosa.

1921

- Total University enrollment: 2,134

1924

- The Graduate School was officially established.

1929

- Denny Chimes was dedicated. Named for Dr. George H. Denny, president of the University from 1912 to 1936.

1931

- The School of Home Economics was officially established. It became the College of Human Environmental Sciences in 1987.
- Total University enrollment: 4,639

1939

- Moundville Archaeological Park and its museum opened to the public.

1941

- Total University enrollment: 4,921

1945

- The Medical College moved from Tuscaloosa to Birmingham.
- The University Press was formed.

1948

- Introduction of doctoral programs was authorized; first doctorates awarded in 1952.

1951

- Total University enrollment: 5,269

1956

- The University of Alabama’s first African-American student, Autherine J. Lucy, was admitted. She was expelled three days later "for her own safety" in response to threats from a mob. In 1992, Autherine Lucy Foster graduated from the University with a master’s degree in education. That same day, her daughter, Grazia Foster, graduated with a bachelor’s degree in corporate finance.

1961

- Total University enrollment: 8,257

1963

- The first sustained enrollment of African-American students at UA — Vivian J. Malone and James A. Hood — was achieved. Vivian Malone graduated in 1965. James Hood returned to campus in 1995 and received a PhD in interdisciplinary studies in 1997.

1965

- The School of Social Work was established.

1968

- The Computer-Based Honors Program, in which undergraduate students apply computer technology to research in a wide range of fields, was established.

1969

- The Graduate School of Library Service was established by act of the Alabama Legislature. It became the School of Library and Information Studies in 1989. The School merged with the College of Communication in 1997 to become the College of Communication and Information Sciences.

1970

- New College was established to allow students to pursue individualized courses of study while maintaining the academic standards of the University.

1971

- The College of Community Health Sciences was established.
- Total University enrollment: 13,055

1973

- The School of Communication was established. It became the College of Communication in 1988 and, when it merged with the School of Information Sciences, was renamed the College of Communication and Information Sciences in 1997.

1976

- The Capstone College of Nursing was established.

1981

- The University celebrates its sesquicentennial.
- Total University enrollment: 16,388

1983

- The College of Continuing Studies was established. In the 1970s it was called Extended Services, then the Division of Continuing Education.

1985

- The MFA Program in Book Arts, with specializations in printing and binding, was established within the School of Library and Information Studies. It was one of only three in the country to offer such an MFA, and the only one do so within the context of a library school.

1986

- The University Honors Program was established.
- The University's computerized library card catalog, AMELIA, became available for use.

1991

- Total University enrollment: 19,366

1994

- The Stallings Center opened as the new home of the RISE Program.

1996

- The Blount Undergraduate Initiative was established (first freshman class accepted in 1999).

1998

- The Second Capital Campaign was concluded, having raised a total amount of $224 million in gifts and pledges.
- International Honors Program was established.
- Modeled on UA's RISE Program, the RISE School of Dallas, Texas, opened.
- Renovation of Bryant-Denny Stadium was completed, increasing capacity to 82,000.

1999

- The Student Services Center was completed.
- Renovation of Sewell-Thomas Baseball Field to a capacity of 6,000 seats began.
- First freshman class accepted in Blount Undergraduate Initiative. Parker-Adams Hall serves as its temporary headquarters.

2000

- English major Bradley Tuggle from Decatur, Ala., named UA's 15th Rhodes Scholar.
- Historic Barnard Hall rededicated as Oliver-Barnard Hall, the first of two Blount Undergraduate Initiative academic houses.
- Construction of 1,500-seat UA Softball Complex completed.
- Blount Living-Learning Center opens to its first resident class.
- Construction of Alabama Institute for Manufacturing Excellence (AIME) completed.
- Morgan Auditorium reopens after $1 million renovation, the first since its construction in 1911.

2001

- UA alumnus Lt. Col. Jim Kelly pilots a Discovery space shuttle mission.
- For the third consecutive year, the UA School of Law ranked among the best in the nation, according to *U.S. News & World Report*.
- UA and Auburn University form the "Alabama-Auburn Alliance" to support fair funding of higher education.
- Tide Navigator, a Web-based registration system that is the first of its kind in the United States, debuts with incoming freshmen.
- Total University Enrollment: 19,633

2002

- UA Alumni Association establishes FATE: Future Alumni for Tradition and Excellence.
- Crimson Tradition Fund established with $10 million gift by Paul Bryant Jr.
- UA named one of the top 50 public universities in the nation by *U.S. News & World Report* for 2003.
- UA student Kana Ellis of Northport, Ala., selected as the first recipient of the Honors Student of the Year Award by the National Collegiate Honors Council (NCHC).
- College of Community Health Sciences breaks ground for its $12.6 million facility, designed to consolidate all services and operations of the Tuscaloosa medical campus.

2003

- Greensboro East High School, in collaboration with UA, became the first high school in Alabama to establish a state-of-the-art Math Technology Learning Center.
- Five students from UA named to the 2003 *USA Today* All-USA College Academic Team. UA students garnered the most awards of any college or university, claiming five of 83 spots on the list.
- UA recognized 40 "pioneers" during three days of events to commemorate the 40th anniversary of Gov. George C. Wallace's "stand in the schoolhouse door." Opening Doors, 1963-2003
- UA named one of the top 50 public universities in the nation by *U.S. News & World Report* for 2004.
- UA senior Rob Davis selected as one of three 2003 Portz Scholars in the National Collegiate Honors Council's competition for outstanding undergraduate Honors papers.
- Total University Enrollment: 20,333

2004

- University Medical Center, UA's new multi-specialty clinic and home of the College of Community Health Sciences, opened on May 11.
- UA named one of the top 50 public universities in the nation by *U.S. News & World Report* for 2005.
- Total University Enrollment: 20,969

2005

- Five UA students named to the 2005 *USA Today* All-USA College Academic Team, the most of any school in the nation. UA's three-year total of 14 also tops all other colleges and universities.

2008

- Seven UA students named to the 2008 *USA Today* All-USA College Academic Team, the most of any school in the nation. UA's total of 31 tops all other colleges and universities.
- Total University Enrollment: 27,052

2009

- UA is ranked 10th in the nation among public universities in the enrollment of National Merit Scholars for the 2009 freshman class.
- Total University enrollment: 28,807

2010

- UA is ranked 6th in the nation among public universities in the enrollment of National Merit Scholars for the fall 2010 freshman class.
- With a record of 10 students named to *USA Today's* 2010 All-USA College Academic Team, UA leads the nation in placing students on the national team, having placed a total of 46 students on the team since 2003.
- Total University enrollment: 30,232

2011

- UA scores a perfect four out of four with Goldwater Scholars in 2011 as all four UA students who applied were named recipients of the elite academic award. In all, UA has produces a total of 34 Goldwater Scholars in the past 25 years.
- The 2011 entering freshman class, at 5,772 students, is the largest in UA history and includes 1,614 students who had a 4.0 or higher high school grade point average. The freshman class also included 181 National Merit Scholars, ranking the University second in the nation among public universities in the enrollment of National Merit Scholars.
- Total University enrollment: 31,747

2012

- Named among the top 50 public universities in the nation by *U.S. News and World Report*'s annual college listing for more than a decade, UA ranks 31st among public universities, its highest ranking ever, for 2012.
- The 2012 entering freshman class, at 6,397 students, is the largest and best qualified in UA history and includes 239 National Merit Scholars.
- UA's debate and forensics program wins its 19th national debate championship.
- Three UA students are named Goldwater Scholars and one is named a Truman Scholar, increasing UA's totals for the last 25 years to 37 Goldwater Scholars and eight Truman Scholars.
- Total University enrollment: 33,602

Admission to the University

The admission process is accomplished by completing the appropriate application for admission and furnishing the required credentials. You may apply online at apply.ua.edu. For questions, please contact The University of Alabama, Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; call (205) 348-5666 or 1-800-933-BAMA; TDD (205) 348-2921; email admissions@ua.edu; or visit the website at gobama.ua.edu.

More specific requirements for freshman, undergraduate transfer, transient, special or international student admission appear in the sections that follow. Some University of Alabama academic divisions may have different policies or requirements regarding admission; see the appropriate division's section of this catalog for details.

General Undergraduate Admission Requirements

Admission to any undergraduate division of the University requires acceptable evidence of previous academic performance and scores on a recognized admission test. A medical history, including proof of current measles (MMR) and meningitis vaccinations and TB screening, must be submitted prior to enrollment for classes. The medical history form can also be downloaded from shc.ua.edu.

Applications for admission are accepted as early as one year prior to the anticipated date of enrollment. After an evaluation of the applicant's credentials, admission is granted into various categories, depending on the strength of the applicant's academic background. Once admitted, a student may enroll in courses for their admitted term and must submit a final transcript. For this reason, prospective students should ensure that their application credentials are submitted to the Office of Undergraduate Admissions as early as possible. Also, any student whose first language is not English will be required to provide proof of language proficiency.

The University of Alabama employs a competitive freshman admission process that includes reviewing and evaluating each application on an individual basis for an applicant's abilities as a scholar. Decisions about the potential for a student's academic success are based on ACT and/or SAT performance, high-school grade point average and high-school course schedule. The writing section of either the ACT or SAT is required. Applicants for freshman admission must submit official copies of their high-school transcripts. Transfer applicants must submit official transcripts of all college-level work attempted. Currently, there is a $40.00 nonrefundable application fee for freshman and transfer students. If admission is denied, the Office of Undergraduate Admissions may suggest alternative ways to meet admission criteria at a later time.

More specific requirements for freshman, undergraduate transfer, transient, special or international student admission appear in the sections that follow. Some University of Alabama academic divisions may have different policies or requirements regarding admission; see the appropriate division's section of this catalog for details.

Freshman Admission

Freshman Orientation and Registration

An orientation/registration program (Bama Bound) is provided for all new freshman students to assist them with the transition to college. Information about orientation and registration is sent to admitted students.

For all new undergraduate students, initial math placement will be based on ACT or SAT math score or previous college mathematics credit. If a student does not have one of these or wishes to try and improve his/her placement, he/she may take the online math assessment. *This should be completed one week prior to Bama Bound.* Math Assessment is no longer offered during Bama Bound.

Each orientation session gives students the opportunity to learn about the University, services offered to students and academic programs, along with enrolling in classes for their first term at the University. Several orientation sessions are provided each year. For more information, visit orientation.ua.edu.

Preparation for College-level Work

The University of Alabama Core Curriculum, required of all graduates, provides the foundation of every undergraduate degree program at the University. In addition to providing a solid understanding of the subjects covered, the core curriculum acquaints students with the ways knowledge is created.

The core curriculum includes academic courses in writing, the humanities, the fine arts, the social sciences, the natural sciences (including laboratory experience) and mathematics; it also requires knowledge of a language other than English.

To prepare for the core curriculum, applicants are encouraged to take maximum advantage of their high-school experiences by accumulating as many academic units as is practical.

Minimum Requirements for Admission

In terms of educational preparation, the college preparatory curriculum minimum unit requirements for regular admissions are:

English	4 units
Mathematics	3 units, beginning with algebra I, algebra II, and one unit of either geometry, trigonometry or calculus
Social Studies	4 units, including world history or comparable course
Natural Science	3 units, including 2 units with a laboratory
Foreign Language	1 unit
Other academic courses	5 units (courses recommended are in fine arts or computer literacy, with additional courses in mathematics, science and foreign language)

The Advanced Academic Diploma awarded by Alabama high schools meets all University of Alabama course requirements. The Credit Based diploma awarded by Alabama high schools is accepted; however, students must have the preparatory curriculum minimum requirements as listed.

These course requirements are in addition to the requirements of a 'B' average and an acceptable score on the ACT or SAT. The writing section of either the ACT or SAT is required.

The course/unit requirement also applies to transfer students who have completed fewer than 24 semester hours or 36 quarter hours of college-level courses.

Home-Schooled Students

The University of Alabama welcomes applications from students who are schooled in the home. Home-schooled applicants should meet the following requirements for admission:

1. Home-schooled applicants should meet the ACT/SAT requirement, including the writing essay section, grade point average (GPA) requirement of general admission and the college preparatory curriculum minimum unit requirements if they present certified transcripts at the completion of their programs. Refer to the 'General Undergraduate Admission Requirements' overview tab.
2. Students who do not present certified transcripts must take the GED and meet the admission requirements as outlined in The University of Alabama GED Admission Policy. See the 'Non-graduates of High School' section under the 'Special Programs' tab.

Special Programs

Early Admission

Students who have exceptionally high grades (B+ or higher grade point average) and at least a 28 ACT or a 1250 SAT (math and critical reading only) and who have strong endorsements from their high-school principal, guidance counselor, and parents or legal guardians may be considered for admission without completing the senior year of high school.

Concurrent Enrollment

Students who meet the necessary requirements may attend The University of Alabama while still in high school. Students in area high schools may enroll as concurrent high-school students/University freshmen. Typical students admitted to this program have a 'B+' grade point average, at least a 26 ACT or 1170 SAT (math and critical reading only) and the recommendation of their high-school principal or guidance counselor and parents or legal guardians. Students take coursework in areas for which they have adequate preparation and the approval of their principal and/or counselor.

Dual Enrollment/Dual Credit Agreement

The University of Alabama participates in dual enrollment/dual credit programs with local boards of secondary education. Through these programs, certain high-school students are allowed to enroll in college-level courses in order to earn credits that apply to both undergraduate degrees and high-school diplomas. Students are eligible under the following conditions:

1. The student must be in grade 11 or 12 or have an exception granted by UA based on the written recommendation of the student's principal and the local superintendent of education and in accordance with Alabama administrative code regarding gifted and talented students.

2. The student must have a 'B+' average, as defined by local board policy, in completed high-school courses.
3. The student must meet the entrance requirements established by UA.

Students who are currently in high school and have concurrent college credit, or dual enrollment or concurrent college credit, are not considered transfer students. Students must have one official transcript sent to the Office of the University Registrar directly from each college or university previously attended.

Non-graduates of High School

Admission may be granted to non-graduates of high school who are 18 years of age and have been out of high school for a minimum of one year. Applicants must score at least 510 on the General Educational Development (GED) Test and submit acceptable ACT or SAT scores. Applicants 23 years of age and older are required to score at least 510 on the GED test. In addition, they may be required to submit ACT or SAT scores for advising purposes.

Undergraduate Transfer Admission

Applicants who have attended other colleges or universities are considered transfer students, regardless of the period of enrollment or amount of credit earned. Students who are currently in high school and have dual enrollment or concurrent college credit are not considered transfer students. Students seeking to transfer to The University of Alabama must meet the following requirements:

- Students must have one official transcript sent directly to the Office of the University Registrar from each college or university previously attended. Faxed transcripts are not considered official transcripts.
- Students who have attempted fewer than 24 semester hours (or 36 quarter hours) of collegiate work must also have official copies of their ACT or SAT scores and final high-school transcript submitted directly to the Office of Undergraduate Admissions.
- An average of C (2.0 on a 4.0 scale) or higher for all college-level work attempted is required for admission. College-level work does not include vocational, technical or remedial/developmental course work. Some divisions may set slightly higher admissions standards. Students must be able to return to the last collegiate institution they attended.

Transferring from Two-year Colleges in Alabama

Students transferring from two-year colleges in the Alabama College System may contract with The University of Alabama under STARS (Statewide Articulation Reporting System). The STARS program will guarantee the transfer and applicability of the two-year college credit under the following restrictions:

- This agreement will be honored for a period of four years from the date of the agreement. The student will be required to satisfy the requirements for graduation as described in the undergraduate catalog in effect at the time of execution of this agreement, provided, however, that UA may change such requirements if the student is given a reasonable opportunity to comply with the changed requirements. The student may choose to comply with the requirements in effect at the time of transfer.
- Under this agreement, the student must be officially admitted and enrolled at UA immediately following his or her tenure at the two-year college at which the contract was initiated. Should the student enroll in another post-secondary institution during the interim, this agreement is void.

This agreement is subject to termination should changes in UA requirements be initiated by any agency outside University control. Such agencies include, but are not limited to, the State Department of Education, ACHE, SACS, NCATE, CLN, AACSB, ABET and other accreditation agencies.

Conversion of Credits

The University of Alabama is on the semester system. Credits earned as quarter hours will be evaluated as semester hours. One quarter hour is equal to two-thirds of one semester hour; for example, a five-quarter-hours course equals three and one-third semester hours. However, when a student is seeking to transfer credit that will be applied toward degree requirements, final authority for evaluating that credit rests with the academic division, which may use a different formula.

Transfer Student Orientation and Registration

Attendance at an orientation/registration session (Bama Bound) is required of each newly admitted transfer student. Considerable assistance is available at each session, and the groups are kept small to encourage individual attention. For more information, visit orientation.ua.edu.

Distance Learning students are not required to attend orientation/registration. Distance Learning students should contact Academic Outreach at academicoutreach.ua.edu.

Transfers within the University

Procedures governing transfers between academic divisions of the University are administered by the Office of the University Registrar. For further information, please refer to the section 'Academic Records and General Academic Policies' section of this catalog.

Admission of Special Category Students

Adult

Applicants who graduated from high school at least four years prior to the date of anticipated enrollment may be admitted to the University without the ACT or SAT, provided their high-school grade point average is 2.5 or higher on a 4.0 scale. However, for placement purposes, the ACT or SAT may be required of all students who are enrolled.

Auditor

Applicants who wish to attend credit courses as auditors must follow standard admission procedures. They must be registered for the courses, must pay all required fees, are expected to attend all class meetings and must conform to all requirements of the instructor of the course. In certain cases, admission as an auditor may be granted without satisfaction of normal admission requirements; however, the University reserves the right to establish appropriate standards for such enrollment. Auditors may not receive credit applicable to the requirements for degrees.

Dean's Admission

The deans of the University may, upon appeal, waive or modify conditions of admission for individual freshman and transfer applicants.

Crimson EDGE (Education Guarantees Excellence)

This two-semester program helps students manage the transition to a university academic environment. Students in this category are not on probation but are limited to 12-14 credit hours during their first semester and must enroll in an academic support class. A Crimson Edge adviser in each college will help students determine appropriate course selection for the fall and spring semesters.

Irregular Postgraduate

Applicants with baccalaureate or advanced degrees may be admitted on the basis of the appropriate degree. Standard admission procedures are followed.

Special Student

Special student enrollment is a non-degree status. Special students may apply for admission as degree-seeking students by requesting a change of status and by meeting regular admission requirements. Students who have never enrolled in college are generally expected to have been out of high school for two or more years before enrollment at the University as special students. Students who are currently on academic probation or under academic suspension imposed by another college and who have not been enrolled in school for two years may be admitted with special permission. Enrollment in specific courses will be on a space-available basis. If a course has prerequisites, permission must be granted by the instructor before enrollment in the course. To continue as a special student beyond one academic year of continuous enrollment, after a break in enrollment, or beyond 12 semester hours of earned credit, permission must be granted by the dean of the school or college in which the special student is enrolled.

Transient Student

Admission as a transient (visiting) student may be granted for any term. Standard application procedures must be followed. Approval may be given on the basis of an official statement of good standing from the last institution attended. Transient status may be granted for only one term.

Admission of International Students

Undergraduate applicants who are not American citizens should address all inquiries to The University of Alabama, Undergraduate International Admissions, Box 870132, Tuscaloosa, AL 35487-0132; or email international.admissions@ua.edu. Applicants who need to learn English or improve their English proficiency should write for information to The University of Alabama, English Language Institute (ELI), Box 870250, Tuscaloosa, AL 35487-0250; or email info@eli.ua.edu. Correspondence concerning undergraduate admission should be initiated at least six months in advance of the anticipated date of enrollment.

Complete, properly translated official credentials are required. Applicants with post-secondary study completed outside the United States are encouraged to submit those credentials for a course-by-course evaluation to World Education Services (WES), Bowling Green Station, P.O. Box 5087, New York, NY 10274-5087; or contact WES at wes.org. This evaluation along with a course syllabus may expedite

the decision to grant transfer credit. Evaluations received from credential evaluation agencies other than WES are subject to approval by the academic division reviewing transfer credit.

Beginning Fall 2013, all applicants with secondary or post-secondary study completed outside the U.S. are required to submit a comprehensive credential evaluation from an acceptable credential evaluation agency. World Education Service, wes.org, is recommended. Evaluations received from credential evaluation agencies other than WES are subject to approval by the academic division reviewing transfer credit or by the Office of Undergraduate Admissions. A course syllabus for post-secondary study may expedite the decision to grant transfer credit. Students who are enrolled in their eleventh year of secondary education may submit an incomplete transcript for agency evaluation with a final transcript and all earned certificates and diplomas to be evaluated and submitted prior to registration.

The University of Alabama requires students to obtain a minimum English test score or satisfactory completion of the English Language Institute (ELI) before a student may begin an academic program. The minimum score requirements on the TOEFL are 527 on the paper-based test and 71 on the Internet-based test. A score of 6.0 on the IELTS (International English Language Testing System) or at least a score of 54 on the Pearson's Test (PTE) are also acceptable to meet the language proficiency requirement for admission if the academic reading and writing modules are selected. Conditional admission may be offered to students who meet the academic and financial qualifications, but do not meet the TOEFL, IELTS or PTE score requirement. These students will be required to register full-time in the ELI until they meet the TOEFL, IELTS or PTE requirement or satisfactorily complete the ELI program. Students who enroll in the ELI and are admissible to UA must maintain good standing for attendance and academic average to move into academic study.

English Placement for Non-native Speakers of English

In order for non-native speakers of English to receive the most appropriate instruction in English composition, each such student is advised to take English 120 and then 121, instead of English 101/102. English 120 and 121 are composition courses created especially for non-native English speakers and they carry equivalent credit as English 101/102. Non-native speakers who have attended and graduate from a high school in the United States may choose either the English 120/121 track or the English 101/102 track. To take English 102/121, non-native speakers must demonstrate the required English speaking and writing abilities by doing *one* of the following:

- have a score of at least 18 on both the speaking and writing sections of TOEFL
- have a score of at least of 6 on speaking and writing sections of the IELTS
- pass the English Proficiency Exam given by the TESOL program
- complete the relevant courses in the English Language Institute (ELI is an intensive English program under the University of Alabama's Office of Academic Affairs that offers training in English for a variety of purposes)

Academic Second Opportunity

A student who has been separated from The University of Alabama for at least three academic years may petition the dean of his or her college to apply for readmission through Academic Second Opportunity. The petition must be received in the dean's office prior to the last day of class for the semester in which the student returns to the University. If the petition is approved, the student will be readmitted regardless of previous scholastic performance, unless separation from the University resulted from academic misconduct. In cases of academic misconduct, readmission will be reviewed by the academic dean (or his or her designee) for the school or college in which readmission is sought.

If the application for Academic Second Opportunity is accepted, all previous academic work remains on the student's permanent record, but the grades for previous work are not used in computing the grade point average. Grades of 'C' or higher earned during previous college attendance are computed as 'passing hours' (P) and may be applied to major program, distribution and graduation requirements. Grades of 'D' earned during previous college attendance may not be applied to major program, distribution or graduation requirements. The student pursues his or her academic program with no University of Alabama or higher education grade point average, and thereafter is subject to the conditions of warning, probation and dismissal that govern all students. Once invoked, Academic Second Opportunity cannot be revoked and it may be awarded only once and may not be awarded retroactively. Students who are awarded Academic Second Opportunity are excluded from candidacy for the Latin honors designations of cum laude, magna cum laude and summa cum laude. These honors may also be referred to as University Honors.

A student who has a degree from another institution but was previously a student at UA or who has a degree from UA is not eligible for consideration.

High School Services

The Office of Undergraduate Admissions assists high school principals, counselors and teachers in the planning and development of enrichment programs in a number of high school subjects, including art, forensics, foreign languages, health and physical education, journalism, music, and the sciences. Workshops, clinics, institutes, skills demonstrations, conventions and conferences, held both regionally and on the University campus, are developed cooperatively by school leaders and representatives of The University of Alabama faculty and the Office of Undergraduate Admissions.

Academic Common Market of the Southern Regional Education Board (SREB)

Updated August 6, 2012

The Academic Common Market (ACM) is a tuition scholarship program that allows selected students to pursue out-of-state college degrees at discounted tuition rates through agreements among the states, colleges and universities. The ACM is designed for qualified incoming freshmen, incoming graduate students and incoming transfer students. A student must meet both the SREB qualifications and The University of Alabama qualifications shown below.

Approximately 30 of UA's degree programs participate in the ACM. The ACM does not include any programs in the College of Commerce and Business Administration (C&BA) or the College of Human Environmental Sciences (HES), both of which once had ACM programs. A student who attends UA not meeting ACM minimum criteria cannot earn an ACM scholarship once here.

General Qualifications of the SREB

- be a resident of one of the 16 SREB states (home.sreb.org/acm/states.aspx)
- select a program eligible for residents of your home state (gradservice.aa.ua.edu/acm/programs.aspx)
- complete the admission process at the institution offering the eligible Academic Common Market program (gradservice.aa.ua.edu/acm/form.aspx)
- be certified as a resident of your home state by contacting the ACM coordinator for your state of residence (home.sreb.org/acm/states.aspx)

UA Qualifications for *First-time* ACM Certification

Undergraduate: The undergraduate ACM is for first-time freshmen or undergraduate students transferring to UA from another university. Students must have at least a 25 ACT composite score or 1130 SAT composite score (math and verbal only) and at least a 3.00 overall high school GPA. UA does not superscore (i.e., does not combine the best math and verbal from multiple test administrations) when considering admissions tests, and taking the optional writing section of the ACT does not have a positive or negative effect on the composite score.

Graduate: The graduate ACM is for first-time graduate students or graduate students transferring to UA from another university. Graduate students must meet all admission requirements and hold a valid admission letter from the Graduate School.

UA Qualifications for *Continuing* ACM Certification

Undergraduate and Graduate: To continue an ACM grant after a student's first semester receiving ACM support, each undergraduate and graduate UA ACM student must maintain at least a 3.0 overall GPA on all UA course work attempted. This GPA standard is in addition to the long-standing requirements for maintaining residency in the same state that certified the student initially and staying in the ACM major for which the student was certified by the home state and approved by UA.

How to Apply for the ACM at UA

Complete and submit an application in the "Apply Now" section of UA's ACM website at graduate.ua.edu/academics/acm.html. (You first must be admitted to the University to do this.)

Be certified by your home state as a resident for ACM purposes. The SREB (Southern Regional Education Board) oversees the ACM; visit sreb.org for the contact information for each state's ACM coordinator. Each ACM applicant must contact his or her state's ACM coordinator and provide the information needed for that coordinator to certify state residency and send an official certification to UA's ACM Coordinator.

NOTE: If a student receives a scholarship that pays full tuition or the out-of-state portion of tuition, the student is not also eligible for an ACM scholarship.

If you have any questions about the ACM at UA, please contact jchamber@bama.ua.edu.

Academic Records and General Academic Policies

Office of the University Registrar

The University of Alabama has long subscribed to the ethical principles for confidentiality of student records that are recommended by the American Association of Collegiate Registrars and Admissions Officers. Following passage of the Family Education and Privacy Act of 1974 (the Buckley Amendments) and as amended, the University established policies and procedures to implement that legislation. The statement of these policies can be accessed online at registrar.ua.edu/academics/privacy-guidelines.

For more information, contact The University of Alabama, Office of the University Registrar, 206 Student Services Center, Box 870134, Tuscaloosa, AL 35487-0134; email registrar@ua.edu; or visit registrar.ua.edu.

Student Responsibility

Thorough knowledge of the academic regulations and policies of the University and its academic divisions is essential for all students. Each student is expected to become familiar with The University of Alabama undergraduate catalog and to consult with the academic advisers provided by the student's division.

Each student is responsible for selecting and registering for the courses that (a) are needed to maintain reasonable progress toward the desired degree, (b) will satisfy all requirements for the desired degree by the time the student expects to graduate and (c) conform to University regulations. Students are expected to pursue successful completion of the courses for which they register.

Students are also responsible for the following:

- The student must maintain a current mailing address and a local residence address on file. Students may make address and phone number updates in myBama.
- The student living on campus (Greek house or residence hall) must complete the Missing Student Contact Information in myBama.
- The student must maintain his/her UA Alerts via the Student Tab in myBama.
- The student must respond promptly to all communications received from The University of Alabama.

Most importantly, the student is responsible for developing and maintaining an academic plan and monitoring his/her academic progress via DegreeWorks, a degree audit tool.

Registration

Prior to registering for classes each term, students may require academic advising using the procedures established by each division.

Currently enrolled students normally register in October for spring semester classes and in March for summer term and/or fall semester classes. A schedule for academic advising and for registration can be accessed at registrar.ua.edu/registration. New students register for classes during a new-student orientation session. The Office of Orientation and Special Programs provides new students with information about orientation sessions and information available at orientation.ua.edu. Late registration is permitted until approximately one week after classes begin; there is a penalty fee for late registration.

Courses that receive inadequate registration for a given semester may be dropped from the schedule of classes before the date for enrollment confirmation and tuition payment and/or before the first week of classes.

For the most current information, students should use the online schedule of classes at myBama.ua.edu

The Semester System

The academic year is divided into two semesters and one summer term. The first semester (fall) begins in late August and ends in December. The second semester (spring) begins in January and ends in May. Fall and spring terms consist of one 10-week session (referred to as Fall II or Spring II) and the full term. The summer term consists of Interim session, two five-week summer sessions and one 10-week summer session. The summer term begins in mid-May and ends in August. The Interim session is the first three weeks of the summer term (the University's current academic calendar can be viewed at registrar.ua.edu/academics/academic-calendars.

Credit for courses completed is awarded in semester credit hours. The number of semester credit hours awarded for a course may vary from one academic department to another depending on class hours, contact hours, outside-the-classroom work, practical or experimental work, and laboratory work.

Course Hour Load in the Fall and Spring Terms

During the fall and spring semesters, the normal class hour load for a full-time undergraduate student who is not on scholastic probation is 12-18 credit hours each semester. A student who has earned at least 12 credit hours at The University of Alabama and has maintained a grade point average of B (3.0 GPA) or higher for all work attempted at The University of Alabama may enroll for more than 18 hours. The maximum load for which a student may enroll in one semester is 21 hours; however, an academic division may impose additional restrictions on class-hour loads. The following policies also govern the class hour load during the fall and spring semesters:

- A senior who is on academic warning may enroll for a maximum of 18 credit hours during the semester in which he or she will complete degree requirements.
- A senior who is not on academic warning may enroll for a maximum of 21 credit hours during the semester in which he or she will complete degree requirements.
- The maximum load for which an entering freshman or transfer student may register during the first term at The University of Alabama is 18 hours.

Course Hour Load in the Summer Term

During the summer term, the normal class hour load for undergraduate students is 6 credit hours for one five-week session or 12 credit hours for the summer term. Undergraduate students may enroll for a maximum of 7 credit hours in each of the two summer sessions that make up the summer term. The total load in a summer term may not exceed 17 credit hours, including Interim session and 14 credit hours, including both courses that last for one summer session (five-week courses) and courses that run throughout the summer term (10-week courses). Full-time enrollment for the summer term is 12 hours.

Academic Calendar Year

At The University of Alabama, the Academic Year is comprised of three semesters. Summer semester is the first, fall semester is the second and spring semester is the final term of the academic year.

Summer semester is broken down into three sessions: Interim, Summer I and Summer II, in addition to the full term. Fall semester is comprised of the full term plus an abbreviated term called Fall II. Spring semester also consists of Winter Interim, a short session between the end of the fall and the beginning of the spring semesters. This short session supports travel and online courses only. Winter Interim is followed by the full spring semester plus an abbreviated term called Spring II.

For a list of all parts of term and important dates please visit registrar.ua.edu/academics/academic-calendars.

Classification of Students

University of Alabama students are classified as follows:

Undergraduate Students

Freshman	0-30 semester credit hours earned
Sophomore	31-60 semester credit hours earned
Junior	61-90 semester credit hours earned
Senior	91 or more semester credit hours earned

Law Students

Second-year law student	30 hours earned in law courses
Third-year law student	56 hours earned in law courses

Upper Division and Lower Division

Certain colleges and schools within the University recognize two enrollment categories, upper division and lower division. To progress from the lower division to the upper division in any college or school, the student must meet all requirements specified by that college or school. Admission to the lower division in a college or school does not guarantee progression to the upper division. Each student should consult academic advisers in the college or school of his or her enrollment to learn about the requirements for progression to the upper division.

Transfers Within the University

A student registered in an undergraduate division of The University of Alabama who has earned fewer than 45 semester hours may transfer to another undergraduate division. A student who has earned 45 or more semester hours may transfer to another undergraduate division according to the rules established by the division to which he or she is applying. Credit will be given for courses in which a passing grade has been earned, provided that the courses transferred are appropriate to the new curriculum. Credits accepted for graduation are determined by the academic division into which the transfer is made. Check your DegreeWorks audit at myBama.ua.edu to determine how your credit is being applied in your new program of study.

Changes in the student's major(s) and minor(s) must be registered with the new academic division immediately following the transfer. Transfers between academic divisions will not be permitted once the registration process has been completed for a given term. At the discretion of the school or college concerned, a student may, upon entering another division of the University, petition to discard all credit previously earned. This recourse is limited to students who have attempted no more than 20 semester credit hours of work.

Transfer Credit

This policy statement adheres to the guidelines set forth in the Joint Statement on the Transfer and Award of Credit developed by the American Association of Collegiate Registrars and Admissions Officers (AACRAO), American Council on Education (ACE) and the Council for Higher Education Accreditation (CHEA).

The University of Alabama transfer credit policy is designed to facilitate the transfer of students and their coursework from one college or university to another, assure the maximum utilization of work accomplished at another institution, and encourage students to advance toward graduation in four years.

General Transfer Credit Policy

The University of Alabama accepts transfer work from post secondary institutions that are fully accredited by regional accrediting agencies. Incoming transfer coursework will be evaluated against The University of Alabama catalog in effect for the semester and year in which the student enrolls at the University. A University of Alabama equivalent course, disciplinary elective or general elective will be assigned based on comparability of the course content.

Accreditation

1. Collegiate work will be considered for transfer credit from post-secondary institutions that are fully accredited by one of the six regional accrediting associations below that offer the baccalaureate degree or associate's degree leading to the baccalaureate degree. Institutions that have been granted official candidacy status by a regional accrediting association will be accorded conditional acceptance for the coursework until full accreditation is granted.
   - Middle States Association of Colleges and Schools
   - Higher Learning Commission (North Central Association of Colleges and Schools)
   - New England Association of Schools and Colleges
   - Northwest Association of Schools and Colleges
   - Southern Association of Colleges and Schools
   - Western Association of Schools and Colleges
2. Collegiate work from post-secondary institutions not fully accredited by regional accrediting associations will be considered for transfer credit only when approval is recommended by the dean of the student's college of enrollment. Approval must be sought by the student via written petition to the dean.
   - If the work is approved for transfer, the credit will be accepted on a provisional basis.
   - Provisional credit will be applied as appropriate to the student's degree if an average of C or higher is earned for a year of academic work as a full-time student.
   - In the case of the part-time student, a C average or higher must be earned for work completed from the time of initial enrollment through the semester (summer included) in which a total of at least 24 semester hours of work is completed at The University of Alabama.
   - A student who transfers within The University of Alabama will have provisional credit applied as appropriate to the curriculum of the college into which the student transfers.
3. Collegiate work will be considered for transfer credit for courses completed at colleges and universities outside of the United States that are accredited or approved by the Ministry of Education (or other appropriate governmental agency) of the country in which they are located. Credit and placement decisions are based on recommendations of the American Association of Collegiate Registrars and Admissions Officers, National Association of Foreign Student Advisors, and selected other professional organizations and agencies that evaluate foreign educational institutions, i.e., World Education Services (WES), New York, NY.

Transferability, Equivalency and Applicability

1. **Transferability** refers to the conditions under which the University accepts credit from other post-secondary institutions for inclusion in the student's record. The Office of the University Registrar (OUR) is responsible for determining transferability.
2. **Equivalency** entails equating transfer credit, both in hours and content, to University of Alabama coursework. Lower level equivalencies will be determined by staff of the OUR, upper level equivalencies will be determined by the college/school which houses the discipline.
3. **Applicability** of credit toward a degree refers to the prerogative of the academic divisions to count specific credit toward the fulfillment of a student's degree requirements. The student's college of enrollment is responsible for determining applicability.

Governing Policies

1. Transfer credit is generally awarded for academic credit earned at regionally accredited institutions or from institutions that are candidates for regional accreditation if the course credit was earned during the candidacy period.
2. The evaluation and award of University of Alabama transfer credit for coursework will be based on official transcripts. To be eligible for evaluation, coursework must appear on an official transcript from the institution that offered the coursework and initially conferred the credit in question.
3. The University of Alabama follows a semester calendar and awards credits earned in semester hours. Earned hours assigned to coursework completed at institutions on non-semester based academic calendars will be converted and reported on The University of Alabama transcript as semester hours. The most common non-semester based academic calendar is the quarter system. Quarter credits are converted to semester credits by multiplying the number of quarter credits by two-thirds. For example, 30 quarter credits equal 20 semester credits.
4. Credit granted by another institution for non-traditional experiences will not be accepted based on that institution's transcript. To receive credit for non-traditional experiences [e.g. College Level Examination Program (CLEP), Advanced Placement (AP), International Baccalaureate (IB), Advanced International Certificate of Education (AICE), military training, etc.], the student must present official documentation from the original provider of the non-traditional experience.
5. The following types of credit are not transferable and will not count towards a degree:
   - placement credit granted by another institution
   - remedial or developmental courses
   - technical courses
   - occupational, vocational and some workforce courses from two-year institutions
   - courses classified as below freshman level by the originating institution
   - courses in religion that are doctrinal, confessional or sectarian in nature
   - courses applying to a previously earned baccalaureate degree
6. Courses from two-year institutions transfer as lower-division (100- and 200-level courses) credit only. Undergraduate courses from four-year baccalaureate degree-granting institutions transfer at the same level, lower- or upper-division, as they were taken. Graduate level coursework may be transferred as undergraduate credit at the written request of the student and upon approval by the appropriate academic department.
7. Credit is granted based on coursework earned, not degrees. Students transferring to The University of Alabama with an Associate's degree will not be automatically granted junior standing.
8. In those instances when a student has repeated a course, all occurrences of the course, including grade, will be posted to The University of Alabama transcript. All grades count in the higher education grade point average, but earned hours will be awarded based on The University of Alabama repeat policy for the equivalent course.
9. Credit in which a grade of F was earned is not applicable and will not count toward a degree. However, the course, hours and grade are placed on The University of Alabama transcript and calculated in the higher education grade point average.
10. Courses for which a student has been awarded academic clemency, bankruptcy, forgiveness, etc., by the institution at which the courses were completed will not be posted to The University of Alabama transcript.

11. Students are required to submit official transcripts for all post-secondary institutions attended. All transferable work will be posted to The University of Alabama transcript. Students do not retain the right to pick or choose certain courses for transfer.

Evaluation and Application of Transfer Credit

Core Curriculum/General Education

The University of Alabama is a member of the Alabama Articulation and General Studies Committee (AGSC) and welcomes transfer students who have completed all or part of their Core Curriculum/General Education requirements at other participating AGSC institutions. In order to simplify the transferability of coursework between all Alabama public colleges and universities, the AGSC has developed and implemented the Statewide Transfer and Articulation Reporting System (STARS). For details regarding the STARS program, please consult the STARS website at stars.troy.edu/stars/stars.htm. Courses that have been approved for Core Curriculum/General Education designation and do not have a direct University of Alabama equivalent will be noted on the student's transcript as follows:

- AGS FC - Ala Gen Stdy Core Fresh Comp
- AGS HU - Ala Gen Stdy Core Humanities
- AGS L - Ala Gen Stdy Core Literature
- AGS HI - Ala Gen Stdy Core History
- AGS SB - Ala Gen Stdy Core Social/Behav
- AGS FA - Ala Gen Stdy Core Fine Arts
- AGS N - Ala Gen Stdy Core Naturl Scien
- AGS MA - Ala Gen Stdy Core Mathematics

Courses transferred from non-AGSC member institutions that are determined to not have a direct University of Alabama equivalent but deemed worthy of core credit will be noted on the student's transcript as follows:

- TRGS FC - Transfer Gen Stdy Fresh Comp
- TRGS FL - Transfer Gen Stdy Foreign Lang
- TRGS HU - Transfer Gen Stdy Humanities
- TRGS L - Transfer Gen Stdy Literature
- TRGS HI - Transfer Gen Stdy History
- TRGS SB - Transfer Gen Stdy Soc Behv Sci
- TRGS FA - Transfer Gen Stdy Fine Arts
- TRGS N - Transfer Gen Stdy Nat Sci
- TRGS MA - Transfer Gen Stdy Math
- TRGS C - Transfer Gen Stdy Comp Sci

The student's college of enrollment will have to grant an exception or substitution if the course should be applied to the major and/or minor.

Elective Credit

Course numbers 197 and 397 indicate lower-level and upper-level elective credit, respectively. If, upon evaluation, a course is determined to have no direct University of Alabama equivalent but does fall under a subject area taught at The University of Alabama, the course will be awarded 197 or 397 credit in conjunction with the appropriate subject area prefix. The discipline prefix with the 197 or 397 course number indicates that the course is suitable for elective credit in that discipline.

If, upon evaluation, a course is determined to have no direct University of Alabama equivalent and does not fall under a subject area taught at The University of Alabama, the course will be awarded 197 or 397 credit in conjunction with a general elective credit (GEC) prefix.

Some colleges or degree programs may not allow 197 or 397 elective credit to complete degree requirements. Students should contact their college of enrollment for details.

Applicability of Credit

Transfer credit will be applied as appropriate to a student's degree program. The authority to apply transferred credit toward degree requirements rests with the student's college of enrollment.

Transferring between colleges within The University of Alabama will not affect the equivalencies established for a student's transfer work, but may affect the applicability of the credit towards the new degree program.

Transferable courses with a grade of D- or above may apply to degree requirements unless a grade of C- is specifically required.

A minimum of a C- must be earned in English composition and introductory math courses to be applicable towards completion of degree requirements. Courses requiring a C- or better are: EN 101 English Composition, EN 102 English Composition, MATH 100 Intermediate Algebra, MATH 110 Finite Mathematics, MATH 112 Precalculus Algebra, MATH 113 Precalculus Trigonometry and MATH 115 Precalc Algebra & Trig. If a grade below a C- was earned in one of the aforementioned English composition or introductory math courses, the course will be included on the student's transcript and included in the calculation of the student's higher education grade point average.

A minimum of 50 percent of the coursework required to earn a baccalaureate degree at The University of Alabama must be earned at a baccalaureate degree granting institution, and a minimum of 25 percent of the coursework required for the degree must be earned at The University of Alabama. Students should contact their college of enrollment for the specific number of hours required for their degree.

The policies and procedures for determining grade point average and applying transferred credit are discussed in each college's section of The University of Alabama Undergraduate Catalog.

Evaluation of Credit from Non-Traditional Sources

Credit by Examination

Credit by examination and credit for several types of out-of-class experiences are recognized by The University of Alabama. Credits can be earned through satisfactory completion of one of the standardized national exams including, but not limited to, Advanced Placement (AP) program, the International Baccalaureate (IB) program, Advanced International Certificate of Education (AICE) (p. 17), Defense Activity for Nontraditional Education Support (DANTES) and the College Level Examination Program (CLEP).

Credit hours earned by examination and/ or out-of-class experiences are not considered University of Alabama institutional coursework, and therefore, may not be applied towards fulfillment of:

- The minimum of 50% of the coursework required to earn a bachelor's degree at The University of Alabama must be earned at a bachelor's degree granting institution (four-year college or university), and
- The minimum of 25% of the coursework required for the degree must be earned at The University of Alabama.

Study Abroad

All University of Alabama students doing research, internships or academic credit programs abroad will work through the Capstone International Academic Programs office. Each college will evaluate the course(s) (appropriate to the division) taken through study abroad. International programs must equate to accredited college or university level work and not simply a travel experience.

The college that is responsible for the discipline will evaluate the course(s) taken overseas. When a transcript is received with work from a University of Alabama affiliated study abroad program on an international transcript, the classes will be posted as institutional coursework with pass/fail grades. When a transcript is received with study abroad work that appears on a domestic transcript from an accredited and affiliated U.S. institution, it will be treated as standard transfer credit. The grade received on the domestic institution's transcript will be posted to the student's transcript and calculated into the higher education grade point average.

University of Alabama course equivalencies will be based primarily on the content to be covered in the international course and the consistent, direct, pedagogical correlation (discipline, course content, course level and course credit) between the international course requirements and how they equate to University of Alabama coursework and credit hours**.** The University of Alabama does not use the U.S. Department of Education National Council on the Evaluation of Foreign Academic Credential, formula of 2 ECTS credits = 1 US undergraduate semester credit hour.

Capstone International Academic Programs requires that a student who will receive credit from an international institution have all of the primary and alternate courses he/she plans to take overseas evaluated by the appropriate academic division prior to studying abroad and documented on the Course Equivalency Form.

Some circumstances may prevent the course equivalencies from being determined prior to the student's departure. In this case, the course(s) taken will be evaluated when the student returns from studying abroad. At the end of the study abroad program, the student must bring back all course documents, syllabi and textbooks from the courses taken overseas to aid in this process. Additionally, in the event that the courses that were approved prior to departure are not the courses actually taken abroad, the student must bring back all course documents, syllabi and textbooks in order to facilitate the equivalency process and receive credit for work abroad.

Military Service

Military Science elective credit is given for Basic Training documented on a Community College of the Air Force (CCAF) transcript, Army/American Council on Education Registry Transcript (AART) or the Sailor/Marine American Council on Education Registry Transcript (SMART). Students who do not have any of the

transcripts listed above should file copies of their service record (Form DD-214) with University Veteran's Affairs representative in the Office of Student Financial Aid.

If deemed appropriate by the Dean of the student's college of enrollment, further evaluation of the student's military transcript may be completed. Upon evaluation and in consultation with ACE guidelines, a determination may be made to award additional credit. The course content covered in the military course must equal the material covered in the equivalent course at the University. The amount and level of credit awarded is determined by the appropriate University of Alabama office. Credit is not awarded for vocational-technical recommendations or Service Occupational Specialty Codes.

The Defense Language Institute (DLI) in Presidio of Monterey, Calif., is regionally accredited at the higher education level. Courses completed at this institution are evaluated in the same way as transfer credits from other colleges or universities. An official DLI transcript should be sent to the Office of the University Registrar at the time a prospective student applies for admission.

Other Non-Traditional Sources

Credit from other non-traditional sources including, but not limited to, independent study, workshops, field experiences or internships will be considered for credit if documented on an official transcript from a regionally accredited institution.

Appeal Process

If a student disagrees with a transfer credit evaluation, the student must submit further information about the course in question in order to initiate an appeal of the evaluation. Supporting documentation can include, but is not limited to, a course outline, syllabus or textbook. If a student disagrees with an evaluation of credit from a non-traditional source, the student must submit further written information about the training including number of hours of the training, information about the training source, accreditation, etc., in order to initiate an appeal of the evaluation.

The Office of the University Registrar, in coordination with the academic discipline, will consider amending the original evaluation if, after review of supporting documentation, a change is warranted. If the student disagrees with the second evaluation, the student may file an appeal with dean of their college of enrollment. If the appeal is denied, the student will be given a reason for denial in writing.

Academic Bankruptcy

Academic bankruptcy involves a student's request to retroactively withdraw from one academic term of work because of extreme personal, emotional or financial circumstances so devastating that it became impossible for the student to perform academically at a level approximating the usual record of achievement. The summer sessions are considered one academic term. The following specific regulations apply to any petition for academic bankruptcy:

- Academic bankruptcy is never granted for an academic term in which the student is currently enrolled, nor for the previous academic term.
- Petitions must be filed prior to graduation.
- No more than one petition for academic bankruptcy may be approved during the student's academic career at The University of Alabama.
- If the petition is approved, the grades for all courses taken during the academic term in question will be recorded as "W" (Withdrawn).
- The application for academic bankruptcy is filed in the dean's office of the academic division in which the student is enrolled. Once a student has been enrolled in an academic division for two terms, that division has the authority to grant academic bankruptcy for a term in which the student was enrolled in another academic division.

Grades and Grade Points

Grades are awarded for University of Alabama undergraduate courses according to the following table of letter grades and values:

A+	4.33
A	4.0
A-	3.67
B+	3.33
B	3.0
B-	2.67
C+	2.33
C	2.0
C-	1.67
D+	1.33
D	1.0
D-	0.67
F	0
I	Incomplete
N	No Grade Reported
NC	No Credit
IP	In Progression
P	Pass
W	Withdrawn
DO	Dropped Out
NA	Never Attended

Policy on Grading

In undergraduate courses at The University of Alabama, passing grades are A+, A, A-, B+, B, B-, C+, C, C-, D+, D and D-. The F and I grades cannot be modified with a + or -. Four grade points are given for each hour of A, three grade points for each hour of B, two grade points for each hour of C and one grade point for each hour of D. The plus sign added to a grade raises the points awarded by one-third point per hour. A minus sign lowers the points awarded by one-third point. For example, each hour of C+ earns two and one-third (2 1/3) grade points. Where departmental or other regulations require a minimum grade in a course or courses (for instance, the requirement to complete all prerequisites with grades of at least C) a minus sign shall be appended to the minimum grade. That is, a C indicates "any kind of C." The syllabus for each individual University of Alabama undergraduate course specifies the criteria upon which work in the course will be graded. **NOTE:** A cumulative grade point average of 4.0 is the highest GPA an undergraduate can receive.

In all freshman composition and introductory math courses, the following grades may be reported: A+, A, A-, B+, B, B-, C+, C, C- and NC (No Credit). The NC grade is not included in the computation of the student's grade point average. A grade of C- or higher is required in all freshman composition and introductory math courses courses and is a prerequisite for advancement to all higher level English and math courses at The University of Alabama.

Specific freshman composition and introductory math courses where a grade of NC may be reported are:

EN 101	English Composition	3
EN 102	English Composition	3
EN 103	Advanced English Composition	3
EN 104	English Composition BUI	3
EN 120	English Comp I Non Native Spkr	3
EN 121	English Comp II Non-Native Spk	3
MATH 100	Intermediate Algebra	3
MATH 110	Finite Mathematics	3
MATH 112	Precalculus Algebra	3
MATH 113	Precalculus Trigonometry	3
MATH 115	Precalc Algebra & Trig	3

In computing the number of credit hours attempted, each enrollment in a course is counted (any required course in which an F is earned must be repeated and passed; hours in freshman composition and introductory math courses for which NC was reported are not included in GPA computations). In some academic divisions, a student who has obtained the dean's permission may repeat a course for which he or she has already earned credit. Each enrollment is counted in the number of credit hours attempted and in the computation of the grade point average. However, only the final enrollment may be applied to the requirements for the degree.

Incompletes and Failures

If a grade of F is earned in a required course, the student must repeat the course and earn a passing grade in order to receive credit that will be applied to the requirements for the degree. Grades of I must be removed within 12 months of the end of the term in which they were awarded but prior to the student's graduation or the grade of I will be changed to F. The I may not be used as a means to re-enroll in a course during a subsequent semester. A grade of I may not be used to satisfy a prerequisite requirement.

Pass/Fail Option

A student who is in good academic standing may request permission to receive a grade of P or F for a course, instead of the conventional A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D- or F. A grade of P does not affect the grade point average. However, a grade of F received in a course that the student has chosen to take under the pass/fail option is computed in the grade point average. Use of the pass/fail option is subject to the following regulations:

- The student must be a sophomore, junior or senior with a grade point average of 2.0 or higher in order to use the pass/fail option.*

- Only elective courses may be taken pass/fail.
- A maximum of four courses or 12 credit hours (whichever comes first) may be taken pass/fail while a student is earning an undergraduate degree.
- Only one course each fall semester, spring semester and summer term may be taken pass/fail.
- Once the deadline to add a course has passed, a student may not rescind the decision to take a course with the pass/fail option.
- A transfer student must have completed at least 15 credit hours at The University of Alabama with a grade point average of 2.0 or higher in order to use the pass/fail option.

* These regulations apply only to courses for which the student elects the pass/fail option; courses that are offered only on a pass/fail basis are exempted.

NA/DO Grades

A DO (Dropped Out) grade is assigned when the student has attended at least one class meeting or has participated in a class activity and has subsequently stopped attending or participating. The DO grade is converted to a grade of W at the end of the term. The DO grade will not be displayed on the transcript.

The grade of NA is used for students who properly register for the course, but never attend. A grade of NA may be posted online between the last day to add/drop classes and the last day of class. A grade of NA is only available to be assigned after the last day to add/drop classes.

Prior to Census Date of Fall and Spring Semesters:

- Grades of NA submitted after the last day to drop/add and before the official University census date will identified by a weekly report.
- The Office of the University Registrar will drop and delete each course for which a grade of NA was assigned from the student's schedule.
- No notation will be made on the academic transcript.

After Census Date of Fall and Spring Semesters:

- Grades of NA submitted after the official University census date will be identified by a weekly report.
- The Office of the University Registrar will roll the NA grade to academic history and the NA grade will appear on the academic transcript. The NA grade will have the same effect on GPA as the grade of W.
- The class for which the grade of NA was assigned will be withdrawn effective the date the grade was assigned by the instructor.
- All NA grades submitted during the Summer term will be processed according to the procedures listed above for NA grades submitted after the census date for the Fall and Spring Semesters.

Repeat Course Policy

The grade and credit of the last (most recent) attempt of a course taken more than once will count in the student's GPA and earned hours. All previous attempts will only count in the calculation of the GPA but not in earned hours. This also applies to courses taken at other institutions and transferred in to UA as an equivalent course.

Requests for exceptions to this policy shall be submitted in writing (or email) by the college to the vice provost for academic affairs.

Federal Regulations limit the number of times a student may repeat a course and receive financial aid for that course. Questions about these regulations should be emailed to the Student Financial Aid Office through their webpage financialaid.ua.edu/contact.

Grade Point Average (GPA)

Grade point averages are computed on the following grades: "A," "B," "C," "D," "F" or "I" and any pluses or minuses that appear on the record. In computing a grade point average, an "I" counts as an "F" until replaced by the earned grade. Grades of "P," "W," "NA" or "NC" are not used when computing the GPA.

Overall and Institutional GPA

A student's overall grade point average (GPA) is comprised of all work completed at the collegiate level, including work completed at The University of Alabama as well as work completed at other post secondary institutions and accepted for credit at The University of Alabama in accordance with the Transfer Credit Policy. A student's institutional GPA is comprised solely of work completed at The University of Alabama. Both the overall and institutional GPA calculations take into account all attempted work that comprise each individual GPA. All failed, repeated or otherwise insufficient coursework is used to make the calculations.

Sample Overall/Institutional GPA Calculation

A student's overall or institutional GPA is calculated by dividing the total number of quality points earned by the total number of attempted hours. (To calculate the total number of quality points earned, refer to the chart in the Grade and Grade Points section of this catalog.) Then, take the point value (4.33, 4.0, etc) of each grade earned and multiply by the number of credit hours each course is worth. The sum total of those calculations will result in the total quality points. The sum of all credit hours used in the GPA calculation will result in the total number of attempted hours. Please note that grades of "P," W," "NA" and "NC" are not included in the GPA calculation. A cumulative grade point average of 4.0 is the highest GPA an undergraduate can receive. See below for a sample calculation:

Attempted Hours	Grade	**Quality Points**
3	A	**12**
4	B-	**10.68**
3	F	**0**
3	C	**6**
3	D+	**3.99**

Total Quality Points/Total Attempted Hours = GPA
Example: 32.67/16 = 2.04 GPA

Major and Minor GPA

In order to graduate with a particular major or minor, a student must earn at least a 2.0 GPA in the courses required for the major or minor. However, a major or minor GPA is calculated differently than an overall or institutional GPA. The same formula of total quality points divide by total attempted hours is used, but certain instances of classes that are included in overall and institutional GPA calculation are excluded when calculating a major or minor GPA.

A student's major GPA is calculated in the following manner:

- Only classes currently completing major or minor requirements up to the total number of hours required for that particular major or minor.
- Failed, repeated or otherwise insufficient attempts of classes are not used in the calculation.
- Successfully completed classes in excess of what is required to complete the major or minor are not used in the calculation.
- When multiple classes can be used to complete a particular requirement, the class with the best grade will be used in the calculation.
- Both UA institutional coursework and transfer work will be used in the calculation.

Other considerations when calculating major and minor GPAs include the following:

- Certain majors or minors may require a GPA higher than a 2.0. Always consult with your academic adviser for requirements specific to your program of study.
- Certain programs of study calculate GPAs for specific groups of courses that do not follow the calculation method outlined above. Always consult with your academic adviser for requirements specific to your program of study.
- Major and minor GPAs are not officially recorded on a student's transcript nor are the calculations stored in the student information system.

Sample Major/Minor GPA Calculation

The requirements for the English minor are as follows:

Requirement #	Courses	**Hours**
1	EN 205 or 215	**3**
2	EN 206, 207, 208, 209, 210, or 249 (or honors equivalent)	**9**
3	EN electives 300 or 400 level	**9**
Total		**21**

A sample of a student's coursework that could apply to the English minor:

Course	Grade/Credits	Applied to GPA?	**Reason**
EN 205	A/3	Yes	**Applies to Requirement #1**
EN 206	B/3	Yes	**Applies to requirement #2**
EN 207	A/3	Yes	**Applies to requirement #2**
EN 208	B/3	Yes	**Applies to requirement #2**
EN 208	F/3	No	**Class was failed**

EN 330	A/3	Yes	**Applies to requirement #3**
EN 348	B/3	Yes	**Applies to requirement #3**
EN 422	C/3	Yes	**Applies to requirement #3**
EN 466	C-/3	No	**In excess of credits required in requirement #3 and lowest grade of classes that could apply**

The actual calculation of the sample English minor GPA:

Course	Grade	Credits	Quality Points
EN 205	A	3	**12**
EN 206	B	3	**9**
EN 207	A	3	**12**
EN 208	B	3	**9**
EN 330	A	3	**12**
EN 348	B	3	**9**
EN 422	C	3	**6**
Totals		21	**69**

Total Quality Points/Total Credits = Minor GPA
Example: 69/21 = 3.28

Honors

Dean's List and President's List

A dean's list of superior students is compiled and published at the close of each semester. Inclusion in the Dean's List requires a student to have a GPA of at least a 3.5 for a minimum of 12 credit hours earned in a fall semester, spring semester or summer semester. All students achieving Dean's List honors will have this accomplishment indicated on their University of Alabama transcript.

Undergraduate students enrolled in the University Scholars Program will have the grade points earned in the approved program-specific, graduate-level courses applied to the Dean's List calculation.

The President's List recognizes students who make the Dean's List with a 4.0 GPA. *The President's List is not a separate honor and it is not indicated on a student's University transcript.* Students' scholastic achievements may be further recognized by election to national scholastic honor societies and activities held during Honors Week.

NOTE: Neither the Dean's List nor the President's List are published until completion of the deferred examination period for the term (see the Examinations and Reports section of this catalog).

Latin Honors Designation

At graduation, the Latin honors designations cum laude (3.5 GPA but less than 3.7 GPA), magna cum laude (3.7 GPA but less than 3.9 GPA) and summa cum laude (3.9 GPA or higher) based only upon The University of Alabama institutional GPA and a minimum of 45 UA semester hours distinguish students who have qualified in their academic divisions for these designations.

Undergraduate students enrolled in the University Scholars Program may have the grade points earned in the approved program-specific graduate-level courses applied to honors calculations provided the courses fulfill the undergraduate requirements and appear in the DegreeWorks audit report.

Latin Honors may apply to a subsequent undergraduate degree provided 45 UA degree-seeking hours above those used to fulfill requirements for the first undergraduate degree are satisfactorily completed.

Students approved for Academic Second Opportunity may qualify for Latin Honors contingent upon completion of a minimum of 45 UA hours required to complete the degree above and beyond the course hour adjustment made by Academic Second Opportunity.

Students who have been approved for academic bankruptcy (one semester) are eligible for Latin Honors contingent upon a completion of a minimum of 45 UA hours required to complete the degree above and beyond the course hour adjustment made for academic bankruptcy.

Credit by Examination

Credit by examination and credit for several types of out-of-class experiences are recognized by The University of Alabama. Credits can be earned through satisfactory completion of one of the standardized national exams including, but not limited to, the Advanced Placement (AP) program, the College Level Examination Program (CLEP), the International Baccalaureate (IB) program, the Advanced International Certificate of Education (AICE) and the Defense Activity for Nontraditional Education Support (DANTES).

Credit hours earned by examination and/or out-of-class experiences are not considered University of Alabama institutional coursework, and therefore, may not be applied towards fulfillment of:

- the minimum of 50 percent of the coursework required to earn a bachelor's degree at The University of Alabama that must be earned at a bachelor's degree granting institution (four-year college or university)
- the minimum of 25 percent of the coursework required for the degree that must be earned at The University of Alabama

Advanced Placement (AP)

Examination	Minimum Score	UA Course Equivalent	Credit	Core Designation
Art History	3	ARH 252	3	FA
Art History	4	ARH 252 & ARH 253	6	FA
Art, Studio (General or Drawing Portfolio)	4	ART 110, ART 130, ART 131, and/or ART 210	0-6°	
Biology	3	BSC 108 & BSC 109	8	N
Biology	4	BSC 114, BSC 115, BSC 116 & BSC 117	8	N
Calculus AB	3	MATH 125	4	MA
Calculus BC	3	MATH 125 & MATH 126	8	MA
Chemistry	3	CH 104	4	N
Chemistry	4	CH 101	4	N
Chemistry	5	CH 101 & CH 102	8	N
Chinese Language & Culture[1]	3	CHI 101 & CHI 102	8	FL/HU
Chinese Language & Culture[1]	4	CHI 101, CHI 102 & CHI 201	11	FL/HU
Chinese Language & Culture[1]	5	CHI 101, CHI 102, CHI 201 & CHI 202	14	FL/HU
Computer Science A	4	CS 150, CS 160 & CS 250	5	
English Language	3	EN 101	3	FC
English Language	4	EN 101 & EN 102	6	FC
English Literature	3	EN 101	3	FC
English Literature	4	EN 101 & EN 102	6	FC
If both English AP tests are completed[2]	3	EN 101 & EN 102	6	FC
If both English AP tests are completed[2]	4	EN 101, EN 102 & TRGS HU	9	FC & HU
Environmental Science	3	GEO 105	4	N
European History	3	HY 101 & HY 102	6	HI
French Language & Culture[1]	3	FR 103	4	FL/HU
French Language & Culture[1]	4	FR 103 & FR 201	7	FL/HU
French Language & Culture[1]	5	FR 103, FR 201 & FR 202	10	FL/HU
German Language & Culture[1]	3	GN 103	4	FL/HU
German Language & Culture[1]	4	GN 103 & GN 201	7	FL/HU
German Language & Culture[1]	5	GN 103, GN 201 & GN 202	10	FL/HU
Government & Politics: Comparative	3	PSC 203	3	
Government & Politics: U.S.	3	PSC 101	3	SB
Human Geography	3	GY 110	3	SB

Italian Language & Culture[1]	3	IT 101 & IT 102	8	FL/HU
Italian Language & Culture[1]	4	IT 101, IT 102 & IT 201	11	FL/HU
Italian Language & Culture[1]	5	IT 101, IT 102, IT 201 & IT 202	14	FL/HU
Japanese Language & Culture[1]	3	JA 101 & JA 102	8	FL/HU
Japanese Language & Culture[1]	4	JA 101, JA 102 & JA 201	11	FL/HU
Japanese Language & Culture[1]	5	JA 101, JA 102, JA 201 & JA 202	14	FL/HU
Latin: Vergil[1]	3	LA 101 & LA 102	8	FL/HU
Latin: Vergil[1]	4	LA 101, LA 102 & LA 201	11	FL/HU
Latin: Vergil[1]	5	LA 101, LA 102, LA 201 & LA 202	14	Fl/HU
Macroeconomics[3]	4	EC 111	3	SB
Microeconomics[3]	4	EC 110	3	SB
Music Theory	3	TRGS HU	3	HU
Physics B	3	PH 101 & PH 102	8	N
Physics C: Mechanics	3	PH 105	4	N
Physics C: Electricity/ Magnetics	3	PH 106	4	N
Psychology	3	PY 101	3	SB
Spanish Language[1]	3	SP 103	4	FL/HU
Spanish Language[1]	4	SP 103 & SP 201	7	FL/HU
Spanish Language[1]	5	SP 103, SP 201 & SP 202	10	FL/HU
Spanish Literature[1]	3	SP 103	4	FL/HU
Spanish Literature[1]	4	SP 103 & SP 201	7	FL/HU
Spanish Literature[1]	5	SP 103, SP 201 & SP 202	10	FL/HU
Statistics	3	ST 260	3	C
U.S. History	3	HY 203 & HY 204	6	HI
World History	3	TRGS HI	6	HI

0 Decision based on review of portfolio by Department of Art and Art History.

1 Students may not receive credit for AP courses *and* placement credit for language study in high school.

2 Students scoring a 3 on both the English Language & English Literature exam will receive credit for EN 101 and EN 102. Students scoring a 4 or better on both the English Language & English Literature exam will receive credit for EN 101 , EN 102 and 3 hours of TRGS HU.

3 Students scoring 3 must successfully complete the appropriate intermediate economics course (EC 308, EC 309) in order to receive credit for EC 110 and/ or EC 111.

College-Level Examination Program (CLEP)

CLEP Subject Examination	Min. Score	UA Course Equivalent	Credit	Core Designation
History and Social Sciences				
History of the United States I: Early Colonization to 1877	52	HY 203	3	HI
History of the United States II: 1865 to the Present	52	HY 204	3	HI
Human Growth & Development	52	HD 101	3	SB
Principles of Macroeconomics	50	EC 111	3	SB
Principles of Microeconomics	50	EC 110	3	SB
Introductory Psychology	54	PY 101	3	SB
Introductory Sociology	52	SOC 101	3	SB
Western Civilization I: Ancient Near East to 1648	52	HY 101	3	HI
Western Civilization II: 1648 to Present	52	HY 102	3	HI
Foreign Languages				
French, Level 1 and Level 2	Score of 50–55	FR 101 & FR 102	8	FL/HU
French, Level 1 and Level 2	Score of 56–61	FR 201	11	
French, Level 1 and Level 2	Score of 62–80	FR 202	14	
German, Level 1 and Level 2	Score of 50–55	GN 101 & GN 102	8	FL/HU
German, Level 1 and Level 2	Score of 56–62	GN 201	11	
German, Level 1 and Level 2	Score of 63–80	GN 202	14	
Spanish, Level 1 and Level 2	Score of 48–51	SP 101 & SP 102	8	FL/HU
Spanish, Level 1 and Level 2	Score of 52–55	SP 201	11	
Spanish, Level 1 and Level 2	Score of 56–80	SP 202	14	
Science and Mathematics				
Biology (non-majors)	57	BSC 108 & BSC 109	8	N
Biology	60	BSC 114, BSC 115, BSC 116 & BSC 117	8	N
Chemistry	52	CH 101 & CH 102	8	N
Calculus with Elementary Functions	52	MATH 125	4	MA
Business				
Information Systems and Computer Applications	50	CS 102	3	
Introductory Business Law	50	LGS 200	3	

* FR 101/102, GN 101/102, and SP 101/102 must be considered units. No credit is given for FR 101, GN 101, or SP 101 alone, or for scores less than those listed above.

International Baccalaureate (IB)

The University of Alabama awards credit for higher level (HL) examinations only.

Examination	Minimum Score	UA Course Equivalent	Credit	Core Designation
Group 1				
English A1	5	EN 101 & EN 102	6	FC
Group 2				
Arabic	5	ARB 101 & ARB 102	8	FL
Chinese	5	CHI 101 & CHI 102	8	FL/HU
French	5	FR 101 & FR 102	8	FL/HU
German	5	GN 101 & GN 102	8	FL/HU
Greek	5	GR 101 & GR 102	8	FL/HU
Italian	5	IT 101 & IT 102	8	FL/HU
Japanese	5	JA 101 & JA 102	8	FL/HU
Latin	5	LA 101 & LA 102	8	FL/HU
Portuguese	5	POR 101 & POR 102	8	FL
Russian	5	RUS 101 & RUS 102	8	FL/HU
Spanish	5	SP 101 & SP 102	8	FL/HU
Group 3				
Economics	5	EC 110 & EC 111	6	SB
Geography	5	GY 102	4	N
History: World	5	HY 101 or HY 102	3	HI
History: U.S.	5	HY 203 or HY 204	3	HI
Philosophy	5	PHL 100	3	HU
Psychology	5	PY 101	3	SB

Social & Cultural Anthropology	5	ANT 102	3	SB
Group 4				
Biology	5	BSC 114, BSC 115, BSC 116 & BSC 117	8	N
Chemistry	5	CH 101 & CH 102	8	N
Environmental Systems	5	GEO 105	4	N
Physics	5	PH 105 & PH 106	8	N
Group 5				
Mathematics	5	MATH 115 & MATH 125	7	MA
Computing Studies	5	CS 150 & CS 160	3	
Group 6				
Theatre	5	TH 114	3	FA
Visual Arts	5	ART 110 & ART 210	6	

Advanced International Certificate of Education (AICE)

AICE Subject	Grade	UA Course Equivalent	Credit	Core Designation
Accounting (AS-Level)	A - E	AC 197	3	
Accounting (A-Level)	A - E	AC 197	6	
Art and Design (AS-Level)	A - E	ART 110	3	
Art and Design (A-Level)	A - E	ART 110 and ART 130	6	
Biology (AS-Level)	A - E	BSC 108	4	N
Biology (A-Level)	A - E	BSC 114/115 and BSC 116/117	8	N
Business Studies (AS-Level)	A - E	MGT 197	3	
Business Studies (A-Level)	A - E	MGT 197	6	
Chemistry (AS-Level)	A-E	CH 197	4	
Chemistry (A-Level)	A-E	CH 101 and CH 197	8	N
Classical Studies (AS-Level)	A-E	CL 197	3	
Computing (AS-Level)	A-E	CS 197	3	
Computing (A-Level)	A - E	CS 197	6	
Design and Technology (AS-Level)	A-E	GEC 197	3	
Design and Technology (A-Level)	A-E	GEC 197	6	
Economics (AS-Level)	A-E	EC 197	3	
Economics (A-Level)	A-E	EC 110 and EC 111	6	SB
English (AS-Level) - English Language or Language & Literature	A-E	EN 101	3	FC
English (AS-Level) - Literature in English	A-E	EN 101 or EN 102	6	FC
Environmental Management (AS-Level)	A-E	GEC 197	3	
French Language (AS-Level)	A-E	FR 101	4	FL
French Literature (AS-Level)	A-E	FR 197	3	
French (A-Level)	A-E	FR 101 and FR 102	8	FL
Further Mathematics (A-Level)	A-E	MATH 125 and MATH 126	8	M
General Paper	A-E	GEC 197	3	
Geography (AS-Level)	A-E	GY 105	3	SB
Geography (A-Level)	A-E	GY 102 and GY 197	7	
German Language (AS-Level)	A-E	GN 101	4	FL
German Language (A-Level)	A-E	GN 101 and GN 102	8	FL
History (AS-Level)	A-E	HY 197	3	
History (A-Level)	A-E	HY 197	6	
Latin (AS-Level)	A-E	LA 101	3	FL
Marine Science (AS-Level)	A-E	MS 197	3	
Marine Science (A-Level)	A-E	MS 197	6	
Mathematics (AS-Level)	A-E	MATH 112, MATH 113, or MATH 115	3	M
Mathematics (A-Level)	A-E	MATH 125 and MATH 197	7	M
Music (AS-Level)	A-E	MUS 197	3	
Music (A-Level)	A-E	MUS 121 and MUS 197	6	FA
Physics (AS-Level)	A-E	PH 197	4	
Physics (A-Level)	A-E	PH 101 and PH 102	8	N
Psychology (AS-Level)	A-E	PY 101	3	SB
Psychology (A-Level)	A-E	PY 101 and PY 197	6	SB
Sociology (AS-Level)	A-E	No credit	3	
Sociology (A-Level)	A-E	SOC 101	6	SB
Spanish Language (AS-Level)	A-E	SP 101	4	FL
Spanish Literature (AS-Level)	A-E	SP 197	3	
Spanish Language (A-Level)	A-E	SP 101 and SP 102	8	FL
Thinking Skills (AS-Level)	A-E	PHL 197	3	
Thinking Skills (A-Level)	A-E	PHL 197	6	
Travel and Tourism (AS-Level)	A-E	RHM 175	3	
Travel and Tourism (A-Level)	A-E	RHM 175 and RHM 197	6	

Examinations and Reports

Final examinations are held at the end of each term. The final examination schedule may be found at mybama.ua.edu. In addition, one or more announced tests may be administered in a class during each term. At the beginning of each semester, the student should review the published final examination schedule and consult with his or her professors about examination requirements as well as the dates and times of final examinations.

Deferred examinations are administered at the beginning of each term for the purpose of removing grades of I. A schedule of deferred examinations is posted well in advance of the beginning of the semester (see Incompletes and Failures under the Grades and Grade Points section of this catalog).

At the close of each term, students can access their grades at myBama.

Transcripts

Official transcripts are issued by the Office of the University Registrar to recognized institutions and agencies that require these documents. Official transcripts are issued and mailed or sent electronically (PDF) only upon the involved student's written request; they are not issued for persons who have financial obligations to the University. A fee is charged for each transcript and any service enhancements requested. Faxed transcripts are available but are not considered official documents. There is an additional charge for each faxed transcript and for the official document mailed subsequently.

Records Policy for Students with Uncleared Financial Obligations

Students with Returned Checks

A student who is withdrawn from the University because of returned checks may not be reinstated for the current term, and all financial obligations to the University must be cleared before the student will be permitted to enroll for a subsequent term. Students who are withdrawn from their courses based on these circumstances will have grades of W entered on their transcripts.

Other Students

Students whose financial obligations to the University are not the result of returned checks will not be withdrawn, but they will be subject to the following policies:

- Grades will be assigned by faculty members and will be entered in the student's permanent record.

- Transcripts will not be released until financial obligations to the University are cleared.
- A student's enrollment will not be confirmed until financial obligation has been resolved.
- When all financial obligations are resolved, the student is again eligible to receive transcripts.

Code of Academic Conduct

Academic Honor Code

All students in attendance at The University of Alabama are expected to be honorable and observe standards of conduct appropriate to a community of scholars. The University of Alabama expects from its students a higher standard of conduct than the minimum required to avoid discipline. At the beginning of each semester and on tests and projects, at the discretion of the course instructor, each student will be expected to sign an Honor Pledge.

The Academic Honor Pledge reads as follows: *I promise or affirm that I will not at any time be involved with cheating, plagiarism, fabrication or misrepresentation while enrolled as a student at The University of Alabama. I have read the Academic Honor Code, which explains disciplinary procedures that will result from the aforementioned. I understand that violation of this code will result in penalties as severe as indefinite suspension from the University.*

Academic Misconduct

Academic misconduct includes all acts of dishonesty in any academic or related matter and any knowing or intentional help, attempt to help, or conspiracy to help another student commit an act of academic dishonesty. Academic dishonesty includes, but is not limited to, the following acts, when performed in any type of academic or academically related matter, exercise or activity:

- **Cheating:** Using or attempting to use unauthorized materials, information, study aids or computer-related information.
- **Plagiarism:** Representing the words, data, works, ideas, computer programs or output, or anything not generated in an authorized fashion, as one's own.
- **Fabrication:** Presenting as genuine, any invented or falsified citation or material.
- **Misrepresentation:** Falsifying, altering or misstating the contents of documents or other materials related to academic matters, including schedules, prerequisites and transcripts.

Except in divisions that have an alternate academic misconduct policy that has been approved by the provost/executive vice president for academic affairs, academic misconduct cases shall be resolved by the academic misconduct monitor (appointed by the academic dean) or the academic dean of the division in which the alleged action took place. Appeals from the monitor's decisions may be made to the academic dean; appeals from the academic dean's decisions may be made to the Office for Academic Affairs.

Penalties for academic misconduct can range from a reprimand to a penalty as severe as suspension for a definite time or even indefinite suspension. Indefinite suspension normally requires a minimum of one semester, after which students may appeal for reinstatement. Academic deans have the authority to impose the full range of penalties. Divisional academic misconduct monitors may impose penalties only after receiving a voluntary written confession unless otherwise designated by the dean. Academic misconduct monitors are authorized to impose penalties up to, but not including, suspension. All persons who admit to or are found guilty of an academic offense for which a penalty less than an indefinite suspension is imposed will receive a penalty of indefinite suspension if they admit to or are found guilty of another offense of academic misconduct. In all cases that involve suspension as a penalty, the Office of the University Registrar will be notified immediately of the suspension and a hold will be placed on the student's record to prevent further enrollment.

A penalty of indefinite suspension is mandated for a finding of guilt on all second offenses. All second offense accusations are referred directly to the academic dean of the College for resolution. "Second offense accusations" assume resolution of first offenses (i.e., a finding of guilt) and that the student has been afforded the opportunity to learn from the first offense. Multiple misconduct accusations, where the initial accusations have not been resolved, may result in a penalty more severe than is typical in first offenses, including indefinite suspension. For second-offense cases that are in progress at the beginning of a semester, a student will be allowed to enroll and continue through completion of semester even if the outcome of the accusation is suspension.

If an academic misconduct case is underway during a student's final semester, the awarding of the degree may be dependent upon the resolution of the case.

The complete Academic Integrity Policy may be found online at studenthandbook.ua.edu/conduct.html.

Academic Warning and Academic Suspension

Scholastic Progress Standard

In order to monitor students' progress toward the baccalaureate degree, The University of Alabama employs the Scholastic Progress Standard (SPS). The SPS sets the minimum required grade point average (for all hours completed at The University of Alabama) for freshman, sophomore, junior and senior students. Students are advised that these are minimum GPA requirements for continuing at the University; to meet divisional graduation requirements, higher grade point averages may be needed.

Grade point averages are computed on the following grades: A, B, C, D, F, or I and any pluses or minuses that appear on the record. In computing a grade point average an I counts as an F until replaced by the earned grade. A grade of P does not enter into the computation.

Required Minimum Grade Point Average on Academic Work Attempted

Credit Hours Earned*	Required University of Alabama GPA
0-30	1.50
31-60	1.70
61-90	1.90
91 or more	2.00

*Includes transferred credit

Academic Warning

A student will be placed on academic warning if his or her cumulative University of Alabama grade point average is below 2.0 but above the appropriate scholastic progress standard (SPS).

The purpose of the academic warning is to alert students to improve their academic performance and to introduce students to available academic support.

Students placed on academic warning must meet with their academic advisers by March 1 for warnings issued at the end of fall semester and by August 1 for warnings issued at the end of spring semester.

Academic warning does not restrict students' ability to register for the upcoming semester or the summer term.

Academic Suspension

A student whose cumulative University of Alabama GPA at the end of the spring semester is below the appropriate SPS will be suspended.

The suspended student will be allowed to enroll in summer term at UA in order to improve his or her University of Alabama grade point average. If improvement results in compliance with the SPS, the student will be reinstated for the subsequent semester, but the previous suspension will be marked on the permanent academic transcript.

The first suspension is for one semester. Subsequent suspensions are indefinite.

A student may appeal first or subsequent suspensions to his or her college's dean or dean's designee.

- A student suspended for the first time must initiate the appeal by August 1. The approval of the appeal does not alter the fact of the suspension and such will appear on the student's permanent academic transcript.
- A student suspended for the second or subsequent time must initiate the appeal at least two weeks prior to the semester in which the student is seeking to enroll. The approval of the appeal does not alter the fact of the suspension and such will appear on the student's permanent academic transcript.
- All decisions on reinstatement are based on The University of Alabama cumulative GPA, significant improvement in the most recent academic terms, feasibility of degree completion, individual circumstances, and previous agreements between the student and his or her academic college.

Students who are suspended are encouraged to use the time of the suspension in ways that assist their academic progress. Students may not attend class or enroll in correspondence courses. Students may study in order to finish courses in which they have earned incomplete (I) grades and may work with faculty members in this process. Students may also address other non-academic problems that have impeded their progress.

Reinstatement Procedures

Any student returning for the first regular academic term immediately following the semester of active suspension who has not been enrolled in any other institution of higher education following the suspension from The University of Alabama must complete and submit an application for readmission according to published procedures and deadlines.

Any student returning for the first regular academic term immediately following the semester of active suspension who is or has been enrolled in any other institution of higher education following the suspension from The University of Alabama must complete and submit an application for readmission and official transcripts from each such institution.

Any student returning for any academic term after the first regular academic term immediately following the semester of active suspension must complete and submit an application for readmission whether or not he or she is or has been enrolled in any other institution of higher education following the suspension from The University of Alabama. If the student is or has been enrolled elsewhere, he or she must provide official transcripts from each such institution with the application for readmission.

Academic Second Opportunity

A student who has been separated from The University of Alabama for at least three academic years may petition the dean of his or her college to apply for readmission through Academic Second Opportunity. The petition must be received in the dean's office prior to the last day of class for the semester in which the student returns to the University. If the petition is approved, the student will be readmitted regardless of previous scholastic performance, unless separation from the University resulted from academic misconduct. In cases of academic misconduct, readmission will be reviewed by the academic dean (or his or her designee) for the school or college in which readmission is sought.

If the application for Academic Second Opportunity is accepted, all previous academic work remains on the student's permanent record, but the grades for previous work are not used in computing the grade point average. Grades of C or higher earned during previous college attendance are computed as "passing hours" (P) and may be applied to major program, distribution and graduation requirements. Grades of D earned during previous college attendance may not be applied to major program, distribution or graduation requirements. The student pursues his or her academic program with no University of Alabama or higher education grade point average, and thereafter is subject to the conditions of warning, probation and dismissal that govern all students. Once invoked, Academic Second Opportunity cannot be revoked and it may be awarded only once and may not be awarded retroactively. Students who are awarded Academic Second Opportunity are excluded from candidacy for the Latin honors designations of cum laude, magna cum laude and summa cum laude. These honors may also be referred to as University Honors.

A student who has a degree from another institution but was previously a student at UA or who has a degree from UA is not eligible for consideration.

Student-Athlete Satisfactory Progress

A student-athlete who has completed at least one academic year in residence at The University of Alabama shall be required to satisfy minimum academic progress requirements for continuing athletic eligibility. In addition to the stated academic requirements for continued enrollment at The University of Alabama, a student-athlete must satisfy the academic progress requirements of the Southeastern Conference and of the National Collegiate Athletic Association in order to remain eligible for athletics-related financial aid and for practice and participation in varsity sports. A student-athlete should visit Compliance at rolltide.com/compliance and read the Student-Athletes tab in its entirety.

Absence from Class and Failure to Complete Class Work

Students are expected to attend all classes for which they are registered. Class attendance is regarded as an academic matter, and the use of attendance records in grading (or for other purposes) is left to the discretion of the faculty member responsible for the course, as explained in the course attendance policy written and distributed by the faculty member. The faculty member is responsible for handling any excuses for absences from his or her class. A student-athlete should go to the Center for Student Athletic Services at rolltide.com/ot/cass.html and read the *Student-Athlete Handbook*.

Withdrawal

A student may withdraw from or drop an individual course until the end of the tenth week of a fall or spring semester, the second week of Interim session, the third week of a five-week summer session, or the fourth week of a 10-week session. After this period, students are expected to maintain their course loads.

A student contemplating withdrawal from a course is strongly encouraged to contact their academic adviser before changing their academic schedule inasmuch as it can result in delayed graduation. Also, dropping below full-time status may impact insurance (health & auto), financial aid and scholarships. (Full-time status is 12 credit hours for undergraduate students, 9 credit hours for graduate students and 10 credit hours for law students.)

A student may not withdraw from or drop individual courses in which penalty grades were assigned as a result of academic misconduct.

No permanent notation is made of a course that is dropped during the change of schedule period. A course dropped from the end of the change of schedule period to the end of the tenth week of a fall or spring semester, the end of the second week of Interim session, the end of the third week of a five-week summer session or the end of the fourth week of a 10-week summer session is indicated on the student's permanent academic transcript with a grade of W.

Important Note #1: Dropping an Interim session course does not result in a withdrawal from the University if the student is enrolled in a course or courses in any other summer session.

Important Note #2: After the Last Day to Drop with a W, the student must petition the college office for approval to or withdraw or drop "for reasons beyond the student's control." The presumption is that the student CANNOT withdraw without "extenuating circumstances," which must be documented. Specifically, the student cannot drop because he or she isn't doing well in the class. Depending upon the term, the student had 10 weeks to make this judgment call. This note also applies to any retroactive withdrawal or drop.

Withdrawal for Medical Reasons

A designated physician or his designee at The University of Alabama Student Health Center handles all medical withdrawals and makes the decision to grant or not to grant them. Medical withdrawals are of two types:

1. Regular Medical Withdrawal
   - A withdrawal for the current semester requires medical documentation from a private physician, psychiatrist, psychologist or therapist. If you have not been seen at The University of Alabama's Student Health Center, a letter from your outside provider is required.
   - A withdrawal for the current semester requires documentation from providers to the designated physician. Documentation may be mailed, faxed or hand-delivered, but it must be in writing. This documentation must specifically recommend withdrawal and it must give a specific date.
   - Medical withdrawal cannot be granted if any final examinations for the current semester have been taken.
2. Retroactive Medical Withdrawal
   - A withdrawal for a previous semester requires medical documentation from a private physician, psychiatrist, psychologist or therapist, or from The University of Alabama's Student Health Center. physician, psychologist or counselor who treated the student during the semester requested.
   - A withdrawal for a previous semester requires documentation from providers to the designated physician. Documentation may be mailed, faxed or hand-delivered, but it must be in writing. This documentation must specifically recommend withdrawal and it must give a specific date.
   - Retroactive withdrawal requires documentation from the dean of the division in which the student is enrolled that no final examinations were taken for the semester in question.

The function of the designated physician is to evaluate the medical documentation and make a decision based on the documentation provided. A request to withdraw or drop from a course to reduce your academic load is not a medical withdrawal and the authority to grant the drop lies with the dean of the division in which the student is enrolled. If requested, documentation can be provided to the dean regarding the medical problem treated at The University of Alabama's Student Health Center. If treatment has not occurred at The University of Alabama's Student Health Center, documentation from the outside provider will be required.

The University of Alabama Student Health Center has no authority to grant a medical withdrawal if there is a medical condition requiring withdrawal and final examinations have been taken. Such a situation must be handled as academic bankruptcy through the dean of the division in which the student is enrolled. A notation of W is entered on the permanent record of the student for all withdrawals from the University for medical reasons.

Withdrawal When Called to Active Military Duty

When a student is called to active military service during an academic term, he or she may choose one of the following three options:

1. The student may request retroactive withdrawal to the beginning of the semester, with a full refund of tuition and fees.
2. If at least 75 percent of the term has been completed, the student may request that the faculty member assign a grade for the course based on the work completed. The final decision about grading is left to the faculty member.
3. If the faculty member assigns a grade of I, the student must complete course requirements within two weeks after returning to campus or make alternative arrangements with the faculty member.

Core Curriculum/General Education Requirements

Applicable to students who begin their college careers fall 1998 and after, except for students enrolled in the College of Engineering (see section titled College of Engineering Core Curriculum/General Education Requirements listed below).

To achieve a general education while pursuing a specific concentration in a chosen field of study, each undergraduate student will construct a curriculum that includes coursework in the following areas:

1. Six semester hours of written composition (FC).
2. Six semester hours in 300- and 400-level courses, preferably in the student's major, approved for the writing (W) designation. The (W) designation indicates that one of the conditions for a passing grade is that students write coherent, logical and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before mid-semester. All (W) designated courses are taught and graded by instructors who have at least the master's degree and preferably are limited to an enrollment of no more than 35 students. The (W) requirement must be satisfied with courses taken on this campus.
3. Six semester hours of one of the following:
   - Six semester hours in courses that are approved for the computer (C) designation. These courses either substantially integrate the application of appropriate software or require writing computer programs. Students must make extensive use of the computer as a condition for passing the course. Courses approved for the (C) designation assume that students have a working knowledge of the computer.
   - Two semesters in one foreign language (FL). A grade of C or better must be earned in the first-semester course of the two-semester sequence that fulfills the requirement before the student will be allowed to enroll in the second semester course. Students with two or more high-school units of a foreign language will be assigned to foreign language courses by the foreign language advisers on the basis of placement test scores. Students placed into FR 103 French 1st Year Review, SP 103 Intensive Review Intro Spanish or intermediate courses (FR 201 Intermediate French, SP 201 Intermediate Spanish) will satisfy this requirement in one semester. **NOTE:** These six hours are in addition to the requirements for humanities or mathematics.
4. Twelve semester hours of courses approved for the humanities and fine arts (HU, L and FA) designations, to include three semester hours of courses approved for the fine arts (FA) designation and three semester hours of courses approved for the literature (L) designation. Each student must complete a six-semester-hour sequence in either literature or history.
5. Twelve semester hours of courses approved for the history and social and behavioral sciences (HI and SB) designations, to include three semester hours of courses approved for the history (HI) designation. Each student must complete a six-semester-hour sequence in either literature (L) or history (HI).
6. Eleven semester hours of courses approved for the natural sciences and mathematics (N and MA) designations, to include eight semester hours of courses approved for the natural sciences (N) designation and three semester hours of courses approved for the mathematics (MA) designation. This mathematics requirement must be satisfied with MATH 110 Finite Mathematics or higher. A student must complete both the lecture and the lab in order to use either the lecture or the lab to fulfill the natural sciences (N) general studies core curriculum requirement.
7. Pre-professional, major and/or elective courses applicable to the student's declared major program of study. Students are to consult with their major departments/program areas for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example, if a course carries a designation for both foreign language (FL) and humanities (HU), it may only be used to satisfy one of these core requirements. An additional course or courses must be completed to satisfy the remaining requirement.

A student may satisfy some general education course requirements by demonstration of competence on a proficiency examination, such as the CLEP subject examination.

Review of general education (core curriculum) courses is an ongoing process. New courses may be approved and added to the list of those that meet core curriculum requirements. The Core designations for existing courses may be discontinued. A course carries general education designation if the course is approved at the time the course is taken. The student must consult the general education designations as found in the appropriate section of the schedule of classes booklet to ensure that the general education designation is in effect at the time the course is taken.

General education credit may be earned for courses taken at another institution, provided the courses transfer as the equivalents of courses that have been approved for general education credit at The University of Alabama. The (W) requirement must be satisfied in courses taken at The University of Alabama.

College of Engineering Core Curriculum/ General Education Requirements

To achieve a general education while pursuing a specific degree program in the College of Engineering, each undergraduate student enrolled in that college will construct a curriculum that includes coursework in the following areas:

1. Six semester hours of written composition (FC).
2. Six semester hours in 300- and 400-level courses, preferably in the student's major, approved for the writing (W) designation. The (W) designation indicates that one of the conditions for a passing grade is that students write coherent, logical and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before mid semester. All (W) designated courses are taught and graded by instructors who have at least the master's degree and preferably are limited to an enrollment of no more than 35 students. The (W) requirement must be satisfied with courses taken on this campus.
3. Nine semester hours of humanities (HU), literature (L) and fine arts (FA) area courses. A six-hour discipline depth study is required and may be taken in either HU, L, and FA or HI and SB. There are no mandatory general education requirements for literature or fine arts, except as required for a specific engineering program.
4. Nine semester hours of courses in the areas of history (HI) and social and behavioral sciences (SB). A six-hour discipline depth study is required and may be taken in either HU, L, and FA or HI and SB.
5. Twelve semester hours of mathematics (MA) and natural sciences (N) area courses, to include two hours of laboratory. Mathematics must be at the MATH 125 Calculus I level or higher.
6. Either six hours of foreign language (FL) or computer (C) are required in addition to the humanities requirement. FL courses can count as HU credit if six hours of C courses are earned.
7. Pre-professional, major and/or elective courses applicable to the student's declared major program of study. Students are to consult with their major departments/program areas for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example, if a course carries a designation for both foreign language (FL) and humanities (HU), it may only be used to satisfy one of these core requirements. An additional course or courses must be completed to satisfy the remaining requirement.

General education credit may be earned for courses taken at another institution, provided the courses transfer as the equivalents of courses that have been approved for general education credit at The University of Alabama. The (W) requirement must be satisfied in courses taken at The University of Alabama.

UA System Cooperative Exchange Program

The University of Alabama System has a Cooperative Exchange Program that allows a student at any of the system's campuses (Birmingham, Huntsville or Tuscaloosa) to enroll in one course at one of the other campuses. The following conditions govern this cooperative exchange program:

1. The student must be currently registered as a full-time undergraduate- or graduate-level degree-seeking student at the home campus.
2. The course desired must not be offered at the student's home campus.
3. Visiting students are limited to one undergraduate or graduate course per term at the host campus.

4. The student must have an overall grade point average of C as an undergraduate or B as a graduate student.
5. The student's request must be approved by the registrar of the home campus and by the dean and/or adviser, if required.
6. Permission for the student to enroll in a course at the host campus is dependent upon availability of space for that course requested by the visiting student (availability is determined at the close of regular registration).
7. The visiting student is not entitled to participate in the student activities of the host campus (sports functions, student concerts, etc.)
8. The visiting student follows all academic policies of the host campus.
9. It is the responsibility of the host campus to forward to the home campus the course description, semester hours of credit and the final grade awarded to the visiting student. In cases where the campus grading systems are not compatible, it is the responsibility of the host campus to award a grade that is compatible with the home campus grading system.
10. All expenses associated with registration, withdrawal and drop/add are paid by the student at the home campus. There should be no transfer of funds to the host campus.
11. To participate in this program, any student enrolled at the home campus with less than full-time hours requires approval by the Vice President for Academic Affairs at the home campus and payment of minimum full-time tuition at the home campus.
12. Any exceptions to the above conditions governing this agreement must be approved by the Vice President for Academic Affairs at the home campus. Any student interested in participating in the Cooperative Exchange Program should contact the Office of the University Registrar for information and exchange program registration.

Multiple Degrees and Multiple Majors

Bachelor's Degree

A bachelor's degree is an award signifying a rank or level of undergraduate educational attainment. Particular types of bachelor's degrees identify educational programs having common objectives and requirements. Degree programs may provide academic, pre-professional or professional experiences and preparation. Majors lead to a bachelor's degree. Each student must select a major within a bachelor's degree type. If options are offered within a major, a student selects one. The student may also elect to enroll in a minor to supplement the major. Alternatively, the student may seek to enroll in multiple majors within the same type of bachelor's degree or to enroll in a concurrent degree program. A bachelor's program of study shall consist of no less than 120 credits. Students may elect to take courses beyond the minimum requirements of a degree program.

Second Bachelor's Degree

Students and former students interested in obtaining a second bachelor's degree and currently enrolled students interested in earning concurrent degrees must follow the stipulations as described in the following paragraphs.

Important Note #1: A student may only be awarded one degree with the same degree type (i.e., Bachelor of Arts, Bachelor of Science, Bachelor of Science in Electrical Engineering, etc.). For example, once a Bachelor of Arts is earned, a student may pursue a second major associated with a Bachelor of Arts but not a second Bachelor of Arts degree. In this example, the student could pursue a Bachelor of Arts in Communication because the degree type is different.

Important Note #2: Currently enrolled students are encouraged to pursue graduate level studies toward an advanced degree through the University Scholars Program in lieu of pursuing a concurrent bachelor's degree. Students should contact their primary college of residence for additional University Scholars Program information.

A currently enrolled student may earn two different bachelor's degrees (i.e., a B.A. and a B.S.) concurrently if he or she meets the following requirements:

- earns a minimum of 150 credit hours, including a minimum of 60 credit hours in residence
- meets all degree, College and University requirements for both degree programs
- meets all prerequisites and course requirements in the two different major fields
- courses may be counted toward meeting the requirements in more than one area unless specifically prohibited by the academic departments and so stated in the catalog, however, credit for such a course cannot be applied toward both the total hours required for the first degree and the additional hours required for any additional degree

NOTE: Both degrees do not have to be received in the same semester provided his/her concurrent degree plan of study was approved prior to the receipt of the first degree; otherwise, see the next bullet below.

A student who has previously earned a bachelor's degree from The University of Alabama and wishes to pursue further undergraduate work may complete an additional major and have it noted on the official transcript (with date of completion) **or** earn a second degree if it is different from the first (i.e., a B.A. if the first degree was a B.S. and vice versa). This student must apply for readmission for the second degree and then:

- earn a minimum of 30 additional credit hours in residence at The University of Alabama over and above any hours applied to the first degree
- complete all hours for the degree in the college awarding the degree except in special circumstances approved by the dean
- meet all degree, College and University graduation requirement for the second degree program in the catalog under which the student enters or in a subsequent catalog
- meet all prerequisite and course requirements in the major field(s) for the second degree

A student holding a bachelor's degree from a regionally accredited institution of higher learning may earn a second bachelor's degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the college and university level. This student must apply for admission for the second degree and then:

- meet all requirements for the second degree to include all course hours, grade point, ancillary, prerequisite and residency requirements specified by the degree program
- earn 25 percent of the degree requirements (a minimum of 30 additional credit hours for a 120 hour degree) in residence at The University of Alabama over and above any hours applied to the first degree

If a student holds a bachelor's degree from a regionally accredited institution of higher learning the University presumes all general education, core curriculum requirements are completed. This presumption does not apply to ancillary college and curricular requirements required by the college awarding the degree.

Students are responsible for declaring their intent to pursue a second bachelor's degree by filing an approval plan of study with their primary college of residency. To ensure appropriate advising, approval is obtained at a point when no less than 30 hours of course work remains for the completion of one or both degrees. Students are also responsible for re-filing updated plans of study if changes are desired.

For degrees in different colleges, students must establish one college as their primary college of residency. If program accreditation is a component of the degree program then the primary college of residency must be the college of the degree program whose professional accreditation requires residency. The student must pay all fees and adhere to all requirements of each college, other than residency.

Students are responsible for filing a degree application for each degree sought according to the published degree application submission deadlines of the colleges and/or schools recommending the degrees and within the deadlines established by the Office of the University Registrar.

Joint/Shared Degree

A joint/shared degree program involves a student working towards a degree mutually sponsored by UA, The University of Alabama at Birmingham (UAB) and/or The University of Alabama in Huntsville (UAH) leading to a single degree which is conferred by all participating institutions. A joint degree program is unique and distinguishable from any program offered independently at any one of the three institutions. The joint/shared degree program must be established through the student's primary institution of residency.

Multiple Institutions Bachelor's Degree

A special degree based on a Transfer Articulation Agreement. The agreement is a contract between two institutions of higher education that allows the student to complete a specific set of courses at each institution to complete to complete requirements for a bachelor's degree. The agreement is Program Specific and Institution Specific so the courses of a specific institutional program have a guaranteed application toward a specific bachelor's program at the other institution.

Majors

A major is an academic program of study within a degree designation. That part of a degree program consisting of a specified number of hours from a defined group of courses in a primary discipline or field. Students are expected to acquire some mastery of a particular discipline or interdisciplinary area as well as to achieve a breadth of intellectual experience. A new major must go through the College/School curriculum approval process and be approved by the Office of the Vice Provost for Academic Affairs. Changes to an existing major must go through the College/School curriculum approval process and be approved by the Office of the Vice Provost for Academic Affairs. Every major will have a Classification of Instructional Program (CIP) code and a unique UA major code attached to it. Only formally approved

majors will appear in the UA Catalog. A completed major is shown on a student's transcript but not the diploma.

A major must comprise a minimum of 30 semester hours of course work specified by the academic department.

Multiple Majors

Students may pursue multiple majors (two or more majors) at the same time within a single bachelor's degree or across degree types. To earn multiple majors, students must fulfill all the major requirements for each major, including any grade point and ancillary requirements. A student may share specific courses pertinent to both majors provided an agreement has been negotiated and agreed upon between the two colleges or departments involved in granting the majors. Students are not required to complete additional general education/core curriculum requirements beyond those required for the first major except in the case where additional lower level courses are needed to fulfill prerequisite requirements of upper level courses. Majors may be selected from multiple colleges, with approval of the college responsible for each additional major, but students must establish one college as their primary college for residency. If a major program's accreditation requires residency in a specific college, the student will reside in the college whose professional accreditation requires residency.

Students are responsible for declaring their intent to pursue multiple majors by filing an appropriate plan of study with their college or school Student Service Office. To ensure appropriate advising, it is recommended that approval should be obtained at a point when no less than 30 hours of course work remain. Once approval is granted, the Student Services Office of the college of residency notifies the Office of the University Registrar of the student intent to complete an additional major(s). Students are responsible for re-filing updated plans of study with their primary college of residence if changes in major intent are desired.

NOTE: Students who seek multiple majors across degree types (B.A. and B.S.) and earn fewer than 150 hours are awarded a multiple major. Students who earn 150 or more hours will receive a multiple degree.

Dual Majors

A dual major program is a program in which two departments within a single college or two departments from two different colleges have formally agreed to allow a student to follow a condensed pathway which shares specific courses pertinent to both majors, thus completing the two majors in less time than it would take to earn them separately. More specifically, dual majors are predetermined, lock-step programs defined by the two areas of interest and not self-devised. Some overlap of coursework use is allowed. Dual majors must be approved by the Office of Academic Affairs.

Minors

That part of a degree program in an approved secondary discipline or field outside the major. A minor requires fewer hours than a major. A minor is awarded only if approved by both the major and minor department and/or college. A minor must be completed in conjunction with the degree a student is pursuing. Students may not pursue a minor after a degree has been conferred. A new minor (by each degree level) must go through the college/school curriculum approval process and ultimately be approved by the Office of the Vice Provost for Academic Affairs. A completed minor is shown on a student's transcript but not on the diploma.

A minor must comprise a minimum of 18 semester hours of course work specified by the department.

Concentrations

A concentration is an approved set of courses within a major that define a specialty area or specific field of study. Unless specified by the unit offering the major, a concentration is not required. Both new concentrations or changes to existing concentrations (by each degree level) must go through the College/School curriculum approval process and be approved by the Office of the Vice Provost for Academic Affairs. Only formally approved concentrations will appear in The University of Alabama Undergraduate Catalog. A completed concentration is shown on a student's transcript but not the diploma. Some divisions or departments may use a term different from concentration, for example, specialization or track.

A concentration must comprise a minimum of nine semester hours of specialized coursework.

Certificate Program

A certificate program at The University of Alabama complements the undergraduate degree and serves as a way to distinguish/recognize students who concentrate a portion of their course work in a particular area. Students are not eligible to complete these certificate programs without being enrolled in and successfully completing a degree program. In rare instances, there may be people who have completed an appropriate bachelor's degree who may then need to complete a certificate for professional certification purposes — but these types of certificates are rare.

The University of Alabama Undergraduate Catalog contains information about certificate programs. Approved certificates (at all levels) are associated with a CIP code and a UA major. Undergraduate certificates are approved by the Office of the Vice Provost for Academic Affairs. Completion of an approved Certificate Program is reflected on the official transcript as a texted comment but not on the diploma.

NOTE: Some certificate programs are unique to a specific division and are not documented on the transcript. Students who are unsure of whether their certificate will be noted on their transcript should check with the student services office in the division offering the certificate.

A list of Office of the Vice Provost for Academic Affairs approved undergraduate certificate programs follows:

- Construction Management Certificate
- Global Studies Certificate
- Manufacturing Engineering Certificate
- Environmental Engineering Certificate
- Ethics/Social Responsibility Certificate
- Business Analytical Excellence Certificate
- Leadership Communication Certificate

Graduation

Degrees are conferred at the close of each fall and spring semester and summer term. A graduation fee is charged to the student account early in the semester of graduation and is payable to the Office of Student Receivables prior to graduation.

Application for Degree

To graduate a student must submit an Application for Degree online. Each candidate for graduation is expected to submit an application for degree one term prior to the term of graduation.

All students (except doctoral candidates) who complete degree requirements will receive diplomas following the established graduation dates for those terms. Doctoral candidates will receive their diplomas at the commencement ceremonies held in August, December and May. Undergraduate students completing degree requirements are considered degree candidates at the time of the institution's graduation ceremony.

Graduation Requirements

To be eligible for a baccalaureate degree in any school or college of The University of Alabama, a student must earn in residence in that school or college at least one-fourth of the semester hours required for the degree. The schools and colleges may specify that advanced course work and additional course hours in the major and minor fields be taken in residence. Students should review the individual college residency requirements found in each college or school section of the undergraduate catalog. A student who is within one semester of completing all degree requirements and plans to complete some or all of those remaining requirements at an institution other than The University of Alabama must seek the approval of his or her dean's office prior to enrolling elsewhere in order to assure compliance with University and divisional residency requirements.

NOTE: Students in the College of Education must seek advisement with their college adviser prior to enrolling at another institution of higher education during their last semester of enrollment to ensure compliance with state teacher certification eligibility factors.

In order to qualify for a degree from The University of Alabama, a student must earn a grade point average of at least C (2.0 on a 4.0 grading system) for all work attempted; transfer students must also earn grade point averages of at least 2.0 (C) for work attempted at The University of Alabama. In addition, the student must earn an average of C or higher for all work applying to the major. Some divisions of the University may have higher grade point average requirements for graduation; the divisional requirements for graduation are found in the sections of this catalog pertaining to each school and college.

Students are required to complete the degree requirements as stated in the catalog for the academic year during which they begin earning baccalaureate credit at The University of Alabama. Transfer students will be held to the same standard regardless of when baccalaureate credit may have been earned at other institutions. If students do not complete degree requirements within seven years from the date they began earning baccalaureate credit at The University of Alabama, they must change to a current or more recent catalog, under which they will have seven years from the start of that catalog year to complete their degree. Students may choose a later catalog up to or including the one current at the time of their graduation.

Credit-Hour Requirement for Degree

Bachelor's degrees in general are designed to be completed in four years provided the student takes the program as a full-time student. The credit hours in general can run from 120 to 147. However, how long it takes to complete the credit-hour requirement for a degree in reality is dependent on several issues.

- Is the student full-time [12 or more semester hours] or part-time?
- If full-time, what is the credit load the student is carrying? Is the student enrolled each semester as prescribed, or carrying the minimum credit load for a full-time student?
- Is the student required to enroll in remedial courses as a result of placement testing?
- Is the student required to repeat any courses because of a low grade or lack of appropriate assimilation of course content?

The table below is laid out by college, degree, hours required and major. It has been sorted by hours required in descending order. You will notice that there are a couple of ranges within the listing. For the majors in music education, the final hours depends upon some proficiency requirements that could potentially add a couple of hours. For all of the other majors in education, the range is roughly 120-128. Although the College publishes an hour requirement of 120, most education majors would have to have classes counting in two places (for example, major and general education or general education and concentration). So, it just depends upon class choice. For all of the other degrees that have a notation of "All Majors" or "All Other Majors" in the major column, that just signifies that all majors offered under that degree could be completed in 120 hours.

College	Degree	Hours	Majors
AS	BM	144	**Music Therapy**
ED	BSE	143-147	**Music Education**
AS	BM	138	**Composition**
AS	BM	129	**Music Theory**
AS	BFA	128	**Art**
AS	BM	128	**Performance**
AS	BS	128	**Geology**
AS	BS	128	**Marine Science/ Geology**
AS	BSG	128	**Geology**
EG	BCE	127	**Chemical Engineering**
EG	BME	127	**Mechanical Engineering**
NU	BSN	127	**Nursing**
EG	BAE	126	**Aerospace Engineering**
EG	BCV	125	**Civil Engineering**
EG	BCC	125	**Construction Engineering**
EG	BEE	125	**Electrical Engineering**
HS	BHS	124	**Interior Design**
ED	BSE	120-128	**All Other Majors**
AS	AB	120	**All Majors**
HS	AB	120	**All Majors**
AS	BAN	120	**All Majors**
CM	BAC	120	**All Majors**
AS	BS	120	**All Other Majors**
HS	BHL	120	**All Other Majors**
HS	BS	120	**All Majors**
AS	BNC	120	**All Majors**
AS	BCH	120	**All Majors**
CB	BCB	120	**All Majors**
EG	BCS	120	**All Majors**
HS	BHS	120	**All Other Majors**
EG	BML	120	**Metallurgical Engineering**
AS	BMB	120	**Microbiology**
SW	BSW	120	**Social Work**

For more detailed information regarding your chosen degree, please refer to the appropriate section of this catalog.

Independent Study and Extension Classes

In general, the maximum amount of baccalaureate degree credit that may be earned through independent study, extension classes or a combination of the two is 25 percent of the total number of hours required for graduation, subject to the following provisions:

- The credit earned for independent study and extension classes must not conflict with general requirements for graduation.
- A student who plans to earn degree credit by independent study must have this plan approved in advance by the dean of the student's academic division.
- Any student in an undergraduate division of The University of Alabama who lacks one semester's work or less for completion of degree requirements, and whose attendance at the University is interrupted by orders to duty in any of the armed forces, shall be permitted to complete the requirements for graduation by independent study, provided that the credit earned for independent study does not exceed 25 percent of the work required for the degree. Such a student may also choose to complete some or all of the remaining one semester (or less) of work at another accredited institution. The work at another accredited institution may include independent study, night classes, extension classes and/or regular classes in residence. Any work taken under these conditions must be approved in advance by the dean of the school or college awarding the degree.
- Students in the School of Law are not covered by these provisions.

Guidelines for Consideration of Course Substitution Requests

A student is expected to satisfy all University degree requirements that were in effect when the student first scheduled a class after his/her admission or most recent re-enrollment as a degree candidate. Requirements for a program (such as major, minor, option, honors) are those in effect at the time of the student's admission or most recent re-enrollment into that program.

A student wishing permission to deviate in any way from program requirements must have permission from his/her college of enrollment. Permission should be obtained prior to enrollment in the course being proposed for substitution:

- Approval authority for the granting of an exception to the core/general education requirements resides exclusively with the Office of Academic Affairs.

The course to be substituted should be in the same area as the required course or in a related area:

- Substitution of a course for a previously failed required course is seldom granted.
- Failure to schedule a required course is not sufficient reason for granting permission for a course substitution.

Student action:

- Contact your divisional student services area for information on how to request a course substitution or exception.
- The University may make changes in policies, procedures, educational offerings and requirements at any time. Please consult an academic adviser within your college of enrollment for more detailed information.
- Approved substitutions for majors, minors and concentrations will be posted to the student's degree audit in DegreeWorks by the student's college following their dean's approval. Approved substitutions for general education requirements will be posted to the student's degree audit by the Office of the University Registrar following approval from the Office of Academic Affairs.

Post Graduate Students

A student holding a bachelor's degree from a regionally accredited institution of higher learning may earn a second bachelor's degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the College and University level. These students will be classified as post graduate students. If the initial bachelor's degree was completed at an institution other than The University of Alabama, courses applied towards the completion of that degree will not be transferred to the University and will not count towards a degree.Any coursework completed after the conferral of the initial bachelor's degree will be posted to the student's University of Alabama record in accordance with the Undergraduate Transfer Credit Policy.

To complete a second bachelor's degree, a student must apply for admission for the second degree and fulfill the following requirements of the Multiple Degree and Multiple Majors Policy:

- Post graduate students must meet all requirements for the second degree to include all course hours, grade point, ancillary, prerequisite and residency requirements specified by the degree program.

- If a post graduate student holds a bachelor's degree from a regionally accredited institution of higher learning the University presumes all general education, core curriculum requirements are completed. This presumption does not apply to ancillary college and curricular requirements required by the College awarding the degree.
- Post graduate students must earn 25 percent of the degree requirements (a minimum of 30 additional credit hours for a 120 hour degree) in residence at The University of Alabama over and above any hours applied to the first degree.

Tuition and Other Expenses

For a complete list of current tuition costs and an estimated student budget for the current year, visit cost.ua.edu or contact The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; (205) 348-5350. Their office is located at 105 Student Services Center.

Costs

For a complete list of current tuition cost and an estimated student budget for the current year, visit cost.ua.edu; contact The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; or call (205) 348-5350. The main office is located in 105 Student Services Center.

College/course fees will vary depending on the student's actual course enrollment. College/course fees are listed online with applicable courses in the Web Schedule of Classes for the applicable term after logging into your myBama account. To see the college fee rates per college, visit cost.ua.edu/college_coursefees.html.

Full- and Part-Time Tuition Rate Basis

An undergraduate full-time tuition flat rate is charged for enrollments of 12 to 16 hours for a fall or a spring semester. An overload fee is charged for each hour in excess of 16. For full-time and per-hour overload tuition rates for the current year, visit cost.ua.edu contact the Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; or call (205) 348-5350.

Part-time tuition rates are charged for hours of enrollment fewer than 12. For part-time tuition rates for the current year, visit cost.ua.edu.

Summer Term Tuition Rates

For summer tuition rates for the current year, visit cost.ua.edu; contact the Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; or call (205) 348-5350. The main office is located in 105 Student Services Center.

Housing

UA offers a wide range of on-campus living options that include dorm rooms and apartments, some including utilities. For more detailed information and current rates, visit the Housing and Residential Communities website at reslife.ua.edu; contact The University of Alabama, Office of Housing and Residential Communities, Box 870399, Tuscaloosa, AL 35487-0399; or call (205) 348-6676 or toll free (888) 498-2262. The main office is located on the first floor of Mary Burke Hall East.

Meal Plans

Bama Dining offers several meal plan options. For details and rates, visit the Bama Dining website at bamadining.com; contact The University of Alabama, Bama Dining Services, Box 870389, Tuscaloosa, AL 35487-0389; or call (205) 348-6816. The main office is located in 133 Burke Hall East.

Dining Dollars

All undergraduates are billed for Dining Dollars along with other registration charges upon enrollment of nine or more hours. For current rates, visit cost.ua.edu. A Dining Dollars account is set up automatically on each student's Action Card. Dining Dollars can be used to purchase meals and snacks from all Bama Dining locations, selected campus vending machines and selected off-campus dining facilities. For complete information on Dining Dollars, visit the Action Card website at actcard.ua.edu; contact The University of Alabama, Action Card Office, Box 870355, Tuscaloosa, AL 35487-0355; or call (205) 348-2288 or toll free 1-800-474-ACTT (2288). The main office is located in 104 Student Services Center.

Parking

If you will have an automobile/motorcycle on campus, you will need to purchase a parking decal from Transportation Services. For information and rates, visit the Transportation Services website at bamaparking.ua.edu; contact The University of Alabama, Department of Transportation Services, Box 870179, Tuscaloosa, AL 35487-0179; or call (205) 348-5471. Parking Services is located in 103 Student Services Center.

Personal Expenses

In addition to the costs listed on the estimated student budget at cost.ua.edu, personal expenses, which will vary from student to student, should be considered. Student Financial Aid makes financial aid awards based on an estimated on-campus budget (including personal expenses). For the current estimated annual financial aid budget, visit the Financial Aid website at financialaid.ua.edu; contact The University of Alabama, Office of Student Financial Aid, Box 870162, Tuscaloosa, AL 35487-0162; or call (205) 348-6756. The main office is located in 106 Student Services Center.

Payment Confirmation Policies and Deadlines

The payment of tuition, college/course fees, dorm room, Dining Dollars, meal plan and parking decal charges is a part of the registration process known as "confirming your schedule." Payment or payment plan participation is required before each semester's registration is complete (confirmed). All prior semester charges must be paid before the student's enrollment will be confirmed for a subsequent semester.

Students will be notified via myBama email when to access their student account through myBama to see each billing period's activity. No paper bills will be mailed. Payment/confirmation deadlines will be included in the email. These notices will occur in late July for the fall semester, late November for the spring semester and late April for the summer term.

For current billing dates and payment/confirmation dates, see Registration & Monthly Bill Schedule under studentreceivables.ua.edu.

Schedule Payment/Confirmation

The student may confirm his or her schedule online when paying the specified payment in full or the deferment plan amount after selecting "Confirm/Pay" on the Account Summary By Term. The Office of Student Receivables will confirm schedules for payments received through the mail, on the telephone or made in person for the specified payment in full or for the deferment plan amounts.

Payments may be made online after logging onto your myBama account, by credit card (Visa, MasterCard, Discover) and electronic check; through the mail by check or credit card mailed to The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; by telephone at (205) 348-4470 with a credit card; or in person at the Office of Student Receivables, 105 Student Services Center, by cash, check or credit card (Visa, MasterCard or Discover).

Other forms of payment include: financial aid and/or scholarships disbursed or authorized (reflected on the student's account); sponsoring agency contracts; tuition assistance from various private, federal and state funds; the Alabama P.A.C.T. program; tuition assistantships; or University faculty/staff or departmental grants. If all or a portion of a student's registration expenses are to be paid by some type of financial aid or by a sponsoring agency and the student's account does not reflect this actual or projected transaction, it is the student's responsibility to provide written evidence of this support to the Office of Student Receivables.

Automatic Schedule Confirmation/Not Attending Cancellation

The student's schedule will automatically be confirmed after the confirmation/payment deadline if the student has sufficient payment from authorized or actual credits (e.g., financial aid, scholarships, third party contracts, etc.) reflected on the account to pay all registration costs. Thus, if the student will not be attending, it will be necessary for the student to indicate this on his or her myBama student account no later than the confirmation/cancellation deadline date. The myBama student account also has an option of indicating that the student will be attending, thus confirming the schedule at an earlier point. Once the schedule has been confirmed, the student will be liable for charges incurred and must officially withdraw through the office of the University Registrar.

Parent/Guest Accounts

A student may allow a parent or other individual to view his or her financial student account and to conduct business (e.g., make a payment, elect deferment plan option, confirm the schedule) on the student's behalf. The student will assign a user ID and password, through his/her myBama account, to allow this access and will need to give this information to the individual(s) authorized by the student. It is still the student's responsibility to make sure that the schedule has been confirmed by the deadline and that payments are made throughout the semester by payment deadlines.

BAMA Plan Installment Payment Option

The University of Alabama offers a way to pay basic annual (fall and spring semesters) University expenses (tuition, residence hall, Dinning Dollars, campus meal plan charges and parking decal costs) in 10 manageable monthly installments through BAMA Plan, Bama's Affordable Monthly Alternative. There are no interest charges, only a $55 annual participation fee for BAMA Plan convenience.

With BAMA Plan, monthly payments can be deducted automatically from a checking account, eliminating the need to write and mail checks every few weeks and ensuring that payments are received on time. Direct billing for each BAMA Plan monthly payment is an option also. The first payment is due June 5 for those who apply on-time for BAMA Plan. Late application is possible through July 5 with a larger initial payment. Summer term charges are not eligible for BAMA Plan. For more information and a BAMA Plan application, visit studentreceivables.ua.edu/bamaplan.html.

Deferment Plan Option

Students who meet the following eligibility requirements may defer up to one-half of the current semester charges for tuition, college/course fees, residence hall charges, Dining Dollars, meal plans and parking decal. To be eligible, students must pay any prior semester balance and at least half of the registration charges at the time the deferment option is elected. BAMA Plan participants are not eligible for the deferment plan. All eligible students will automatically see the required payment amounts for the deferment plan election and the payment in full option when confirming their schedule. It is not necessary to sign up in advance for the deferment plan.

The required payment can be made by cash, check, money order, electronic web check, credit card (VISA, MasterCard or Discover), financial aid applied to the student's account, faculty/staff or graduate-student grants, sponsoring agency contracts or anticipated financial aid verified by the Office of Student Financial Aid. The deferred amount plus a deferment fee, currently $30.00, is payable by the midpoint of the semester.

Other Financial Payment Policies

Continuing students who register for courses after the confirmation deadline will be charged a $25.00 late-registration fee. All charges collected during the registration process are subject to correction for errors in calculation to ensure that correct amounts are collected as required by the board of trustees and current policies of the University.

Payment of registration charges with a check that is subsequently returned from the bank unpaid will result in an additional late-registration fee and a returned-check fee. Failure to clear a returned check taken in payment for registration charges will result in administrative withdrawal from classes. Once this action is taken, the student cannot be reinstated for the semester and will owe the prorated portion of the charges for tuition and housing as specified in the Withdrawal from the University section of this catalog.

Financial aid (other than work-study) is applied to a student's account in payment of institutional charges. No refund will be made on applied aid unless the student's account reflects a credit balance.

Miscellaneous Expenses and Payment

Miscellaneous expenses such as library fines, parking fines and student health center charges are applied to your student account throughout the term. Students will need to access their student accounts at myBama to view additional charges incurred during the course of the semester and the due dates to prevent late payment charges from applying. Email reminders will be sent to the student's myBama account for each billing cycle.

For a list of other enrollment costs and current fee amounts, visit cost.ua.edu.

Delinquent Accounts

In the event of a past-due balance of any nature on the student's account, diplomas will not be issued, enrollment for subsequent terms will not be allowed, college credits will not be transferred and transcripts of college credits will not be released until the balance is paid in full.

Failure to meet financial obligations of any kind to the University could subject the student to eviction from University housing; suspension of future services; referral of the student's delinquent account to a collection agency; reporting to credit bureaus; and the assessment of additional late-payment charges, transcript hold fees, attorney's fees, and other costs and charges necessary for the collection of any amount not paid when due.

Offset of Funds

If a student's University account has an outstanding balance and the University has in its possession any funds payable to the student (from payments or credits applied to the student's account, payroll checks and/or any other source), the University reserves the right to withhold the funds necessary to clear the student's outstanding balance and to cover any collection costs incurred. Once those amounts are paid, any remaining funds are paid to the student.

For more information, contact The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; call (205) 348-5350; or email receivables@fa.ua.edu. The Office of Student Receivables is located in 105 Student Services Center.

Withdrawal from the University

It is the student's responsibility to withdraw officially from the University or from an individual course in accordance with University regulations. See the Office of the University Registrar and General Academic Policies section of this catalog for instructions.

Tuition charges are reduced following withdrawal from all classes in an enrollment period at a rate based on the date the student initiates the withdrawal process with the Office of the University Registrar, as reflected in the Proration of Tuition section of this catalog. Exceptions to the withdrawal initiated date policy include medical withdrawals from all classes and withdrawals from all classes due to involuntary military induction. Proration for medical withdrawal is based on the withdrawal effective date determined by the director of The University of Alabama Student Health Center. Withdrawal due to involuntary military induction (supported by a valid military induction notice) will result in full tuition removal. For dropping an individual course, proration is determined by the date the student initiates the action.

Enrollment periods are the fall semester, spring semester or summer term. The summer term includes several different sessions: a three-week Interim session and two five-week summer sessions. If a student who has completed or will complete any course enrollment for the summer term wishes to drop classes for a specific session, this will be considered a course drop rather than a withdrawal since the student is still enrolled in the summer term.

Students who receive federal financial aid and subsequently withdraw from all classes before completing the enrollment period are subject to full or partial federal aid cancellation and repayment of funds received. See the Impact of Withdrawal on Students Receiving Federal Financial Aid section of this catalog.

Students suspended from school for disciplinary reasons have no right to refunds of any tuition paid or to the cancellation of amounts due.

Students are responsible for clearing any outstanding balances on their accounts before leaving campus. Refunds upon withdrawal from all courses will not be issued for three weeks to allow time for all necessary adjustments to be made to the student's account.

Students are not entitled to refunds or cancellation of amounts due for residence hall contracts unless they withdraw from all classes. See the Proration of Housing Charges section of this catalog.

Refunds of housing deposits are issued upon authorization of Residential Life if the student has a clear account balance.

Refunds of ROTC deposits are issued upon authorization of the ROTC supply officer if the student has a clear account balance.

No refunds will be made to a student who has an outstanding balance on his or her account.

Proration of Tuition Charges

Withdrawal or dropping of courses during the semester may result in an increased hourly cost for the remaining hours. Tuition charges are based on the remaining hours plus a percent of the hours dropped, as determined by the date the withdrawal is initiated or the course(s) are dropped. For example, dropping from 14 hours to 6 hours during the 25% cost period, will adjust the tuition to the cost of taking 8 hours (i.e., 6 remaining hours plus 2 hours (8 dropped hours x 25% = 2 hours). For current proration dates, visit studentreceivables.ua.edu/withdrawal.html.

Traditional Courses

These are term-based courses with a set start and end date.

Fall or Spring Semester	**Cost Incurred**
Registration through eighth day of semester	Registration fee charge only
Ninth day through fourth week	Cost of the remaining enrolled hours plus 25 percent of the dropped hours
Fifth through seventh week	Cost of the remaining enrolled hours plus 50 percent of the dropped hours
Eighth week on	No adjustment in the original charge

Summer Term Interim Session	**Cost Incurred**
Registration through second class day	No charge

Third class day on	No adjustment in the original charge

First or Second Summer Session	Cost Incurred
Registration through second class day	Registration fee charge only
Third class day through third week	Cost of the remaining enrolled hours plus 50 percent of the dropped hours
Fourth week on	No adjustment in the original charge

Full (Dual) Session Courses*	Cost Incurred
Registration through second class day	Registration fee charge only
Third class day through fourth week	Cost of the remaining enrolled hours plus 50 percent of the dropped hours
Fifth week on	No adjustment in the original charge

*Full (dual) session courses extend over first and second summer sessions.

Non-Traditional Courses/Open Learning Courses

These courses are not term-based and have variable starting and ending dates.

Print-based Independent Study and Online Courses	Cost Incurred
Start date through 30 days	No charge
31 days through 60 days	50 percent charge
61 days on	No adjustment in the original charge

External Degree Courses	Cost Incurred
Start date through 30 days	No charge
31 days on	No adjustment in the original charge

Proration of Housing Charges

The following proration of housing charges goes into effect in the event of withdrawal from all classes. Students must contact Housing and Residential Communities upon withdrawal.

For more detailed information, contact the Office of Housing and Residential Communities, Box 870399, Tuscaloosa, AL 35487-0399; located on the first floor of Mary Burke Hall East; call (205) 348-6676 or toll free (888) 498-2262; or online at reslife.ua.edu. For current proration dates, visit studentreceivables.ua.edu/withdrawal.html.

Fall or Spring Semester	Cost Incurred
Registration through eighth day of semester	No charge
Ninth day of semester through fourth week	25 percent charge
Fifth through seventh week	50 percent charge
Eighth week on	100 percent charge

Summer Term

Interim Session	Cost Incurred
Registration through second class day	No charge
Third class day on	100 percent charge

First or Second Summer Session	Cost Incurred
Registration through second class day	No charge
Third class day through third week	50 percent charge
Fourth week on	100 percent charge

Full (Dual) Session Courses*	Cost Incurred
Registration through second class day	No charge
Third class day through fourth week	50 percent charge
Fifth week on	100 percent charge

*Full (dual) session courses extend over first and second summer sessions.

Impact of Withdrawal on Students Receiving Federal Financial Aid

In addition to the financial impact on institutional costs and charges noted earlier in this section related to withdrawal from all classes in an enrollment period, student recipients of federal Title IV aid (Federal Pell Grants, Federal Perkins Loans, Federal Direct Loans, Federal Supplemental Educational Opportunity Grants, National Smart Grants, Federal Teach Grants, Alabama Academic Competitiveness Grant and Alabama State Grants) are subject to additional rules and regulations, which may result in cancellation or reduction of federal Title IV aid upon withdrawal from classes in an enrollment period.

Although federal aid is normally disbursed at the beginning of an enrollment period, this aid is earned as the student attends classes throughout the period. The difference in awarded and earned aid at the point of withdrawal may result in the need to return unearned aid.

Reductions in aid associated with the institutional cost portion (tuition, dorm charges, college/course fees) resulting from withdrawal from all classes for the enrollment period will be returned to each source of aid/scholarship received by the student, up to the total amount received from each source, in the following order:

1. Federal Direct Loan(s), Unsubsidized
2. Federal Direct Loan(s), Subsidized
3. Federal Perkins Loan
4. Federal Direct Loan(s), PLUS
5. Federal Pell Grant
6. Federal SEOG Grant
7. other aid or scholarships

Any remaining credit, after these cancellations have occurred, will be returned to the student (net of any charges remaining on the student account).

In some circumstances, withdrawal may result in the student assuming the liability for the payment of any remaining institutional charges for the enrollment period in addition to any miscellaneous charges outstanding on the student account.

A federal aid recipient who withdraws from an enrollment period is subject to possible repayment of federal aid disbursed to the student (after payment of institutional charges) for living expenses and other educational needs. If the aid disbursed is greater than the earned portion of the aid at the point of withdrawal, it may be necessary for the student to repay all or a portion of the federal aid received.

For further information, contact the Office of Student Receivables located at 105 Student Services Center; call (205) 348-5350; email receivables@fa.ua.edu; or visit studentreceivables.ua.edu/withdrawal.html.

Student Financial Aid

Financial aid is assistance made available to students to help pay for their college education. Intended to allow students a choice of colleges and to enable them to complete their programs of study, financial aid may consist of scholarships, grants, loans and/or jobs. The federal and state governments, educational institutions, businesses, civic clubs and individuals sponsor financial aid programs of various kinds.

Student Financial Aid at The University of Alabama provides counseling and information to students and parents at all income levels. The office is located in 106 Student Services Center. For more information, call (205) 348-6756 or visit financialaid.ua.edu.

Types of Financial Aid

Scholarships

University of Alabama scholarships can be reviewed online at scholarships.ua.edu or requested by contacting The University of Alabama, Scholarships, Box 870132, Tuscaloosa, AL 35487-0132; (205) 348-5666 or 1-800-933-BAMA; email scholarships@ua.edu.

Grants

A grant is gift aid that does not have to be repaid. Only undergraduate students pursuing their first bachelor's degrees are eligible for grants. Five grants are available at The University of Alabama:

Federal Pell Grant

The Federal Pell Grant program is based on financial need. The amount of a Pell Grant varies depending on eligibility.

Federal Supplemental Educational Opportunity Grant (SEOG)

The Supplemental Educational Opportunity Grant is a federal program based on exceptional financial need and availability of funds. The amount of an SEOG award varies. To be considered, a student must be eligible for a Federal Pell Grant.

Alabama Student Assistance Program

The Alabama Student Assistance Program is a grant program based on financial need and availability of funds. Only Alabama residents are eligible to receive these grants, which vary in amount.

Alabama Competitiveness Grant

The Academic Competitiveness Grant is based on financial need. It is awarded to first- and second-year students pursuing their first undergraduate degrees. Students must be eligible for a Pell Grant and apply using the Free Application for Federal Student Aid.

National SMART Grant

The National SMART Grant is based on financial need. It is awarded to third- and fourth-year students pursuing their first undergraduate degrees in specific fields of study that are determined to be high-need by the Department of Education. Students must be eligible for Pell Grant and apply using the Free Application for Federal Student Aid.

Student Loans

Student loan programs provide long-term, low-interest loans for students. Student loans must be repaid with interest.

Federal Perkins Loan

The Federal Perkins Loan is based on exceptional financial need, eligibility for the Federal Pell Grant and availability of funds. It has an annual interest rate of 5 percent. Repayment does not begin until nine months after graduation or when a student is no longer enrolled at least half-time. The maximum amount that can be borrowed by a student for each academic year is determined annually and is based on the availability of funds.

William D. Ford Federal Direct Loan Program (Direct Loans)

The University of Alabama participates in the Direct Student Loan program. This means the University receives loan funds directly from the U.S. Department of Education and disburses them to eligible students. Loans disbursed through this program no longer involve private lending institutions such as banks or credit unions. The types of loans disbursed through the program are as follows:

Federal Direct Subsidized Stafford Loan

The Federal Direct Subsidized Stafford Loan program is based on financial need; recipients must be enrolled at least half-time.

Federal Direct Subsidized Stafford Loans are awarded by the University. Repayment of Federal Direct Subsidized Stafford Loans does not begin until six months after graduation or when a student is no longer enrolled at least half-time.

Maximum annual Federal Direct Stafford Subsidized Loan awards (based on eligibility) are as follows:

Freshman	$3,500
Sophomore	$4,500
Junior/Senior	$5,500

Federal Direct Unsubsidized Stafford Loan

The Federal Direct Unsubsidized Stafford Loan program is not based on financial need. Unlike the subsidized loan, interest on an unsubsidized loan begins accruing as soon as the loan funds are disbursed. Interest can be added to the principal or paid monthly or quarterly by the borrower. To be considered for the unsubsidized loan, students must apply for federal financial aid.

Maximum annual Federal Direct Unsubsidized Stafford Loan awards are as follows and include any amount received in a subsidized Federal Direct Stafford Loan:

Dependent Students	Independent Students
Freshman $5,500	Freshman $9,500
Sophomore $6,500	Sophomore $10,500
Junior/Senior $7,500	Junior/Senior $12,500

A total maximum (including both subsidized and unsubsidized Federal Direct Stafford Loans) of $31,000 for dependent students or $57,500 for independent students may be borrowed for study toward the undergraduate degree.

Federal Direct Parent Loan for Undergraduate Students (PLUS)

The PLUS program is not based on financial need. The PLUS program is available to parents of dependent students. The interest rate is variable, adjusted annually, not to exceed 9 percent. A parent can borrow the difference between the cost of attendance (defined by Student Financial Aid) and the amount of the student's estimated resources.

Repayment of principal and interest of PLUS loans begins within 60 days after the loan is disbursed or parent may request a deferment. PLUS loans are disbursed in two installments.

Federal Work-Study Program

The Federal Work-Study Program is a federally funded work program based on financial need and availability of funds. One component of the program is student participation in community service designed to improve the quality of life of a community's residents or to solve particular problems those residents experience.

Work-study students may work on or off campus for an average of 12 to 15 hours of service weekly. They are paid every two weeks for the hours worked.

A listing of available work-study positions (including community service positions) is made available to students who complete the University's work-study orientation session.

Applying for Financial Aid

To determine the amount of financial aid for which a student is eligible, The University of Alabama uses the Free Application for Federal Student Aid (FAFSA). Students complete the FAFSA online at fafsa.ed.gov. Information from the FAFSA will be forwarded to the University if the student designates UA as a recipient, using UA's federal school code 001051. Financial aid is not automatically renewed from year to year. Students must apply each year for all types of aid. The U.S. Department of Education sends renewal information to prior-year applicants in November. Students are encouraged to apply as soon as possible after Jan. 1. Processing can take two to three weeks, so it is important to begin early. Although The University of Alabama sets no deadline to apply for financial aid, there is a March 1 priority date to receive maximum consideration for all types of aid.

Satisfactory Academic Progress Requirement for Federal Financial Aid Recipients

All students at The University of Alabama who receive federal financial aid must make satisfactory progress toward completion of their degrees within a reasonable period of time. The University's standing committee on financial aid has approved the following standards defining satisfactory progress in accordance with regulations issued by the U.S. Department of Education.

Undergraduate Students

An undergraduate student is considered to be making satisfactory progress if he or she:

- is admitted and enrolled as a degree-seeking student
- meets the minimum scholastic measures required for financial aid recipients
- maintains measurable progress toward the completion of the degree
- completes degree requirements within a reasonable length of time

Minimum Scholastic Requirements

In order to maintain the minimum scholastic requirements, the student must maintain the minimum grade point average (GPA) indicated below according to the number of credit hours earned (including transfer credit):

Credit Hours Earned	Required UA GPA
0-30 hours	1.5
31-60 hours	1.7
61-90 hours	1.9
91 or more hours	2.0

Measurable Progress Requirement

In order to maintain measurable progress toward the completion of their degrees, students must successfully complete 67 percent of all University of Alabama credit hours attempted. (Hours attempted include repeated courses, dropped courses, withdrawals and incomplete courses.) This measure becomes effective when a student has attempted 24 University of Alabama credit hours.

- **Example A:** If you attempted 32 credit hours and successfully completed 26 of those hours, dropped 3 hours and failed 3 hours, your completion rate would be as follows: 26 completed hours ÷ 32 attempted hours = 81.2 percent completion rate. You meet the measurable progress component of this requirement.
- **Example B:** If you attempted 32 credit hours and successfully completed only 20 of those hours, and either dropped, failed, repeated, received incompletes for or withdrew from the other 12, your completion rate would be as follows: 20 completed hours ÷ 32 attempted hours = 62.5 percent completion rate. You do not meet the measurable progress component of this requirement and, therefore, are not eligible for financial aid.

Reasonable Length of Time Requirement

At The University of Alabama, a reasonable length of time for the completion of a degree program is generally defined as no more than 150 percent of the normal time required to complete a degree program. Coursework that transfers into a degree program will adjust the time frame accordingly.

- **Example A:** If your degree requires that you complete 120 credit hours, your reasonable length of time will be as follows: 120 credit hours x 150 percent = 180. You will be within your reasonable length of time during your first 180 hours of attempted coursework.
- **Example B:** If your degree requires that you complete 120 credit hours and you have transferred 54 credit hours, your reasonable length of time will be as follows: 120 credit hours – 54 transfer hours = 66 x 150 percent = 99. You will be within your reasonable length of time during your first 99 hours of coursework attempted at The University of Alabama.

A student who is working toward a degree level he or she has already completed or exceeded (i.e., second bachelor's degree) will have his or her reasonable length of time established at no more than 67 percent of the normal length of the program minus any coursework that transfers into the program.

- **Second bachelor's degree example:** If your new bachelor's degree requires 120 credit hours and your dean counts 98 hours from your first degree toward your second degree, your reasonable length of time will be as follows: 120 credit hours – 98 previous hours = 22. You will be within your reasonable length of time during your first 22 hours of coursework attempted on your second degree.

Student Rights and Responsibilities

Thorough knowledge of the academic regulations and policies of the University and its academic divisions is essential for all students. Each student is expected to become familiar with The University of Alabama undergraduate catalog and to consult with the academic advisers provided by the student's division.

Each student is responsible for selecting and registering for the courses that (a) are needed to maintain reasonable progress toward the desired degree, (b) will satisfy all requirements for the desired degree by the time the student expects to graduate and (c) conform to University regulations. Students are expected to pursue successful completion of the courses for which they register.

Students are also responsible for the following:

- The student must maintain a current mailing address and a local residence address on file. Students may make address and phone number updates at myBama.
- The student living on campus (Greek house or residence hall) must complete the Missing Student Contact Information in myBama.
- The student must maintain his/her UA Alert via the Student Tab in myBama.
- The student must respond promptly to all communications received from The University of Alabama.

Most importantly, the student is responsible for developing and maintaining an academic plan and monitoring his/her academic progress via DegreeWorks, a degree audit tool.

Support Programs and Services for Students

At The University of Alabama, we're committed to helping our students make the most of their college experiences by providing a comprehensive range of support programs and services to give them the resources they need. These include high-quality academic, personal and professional support services; diverse recreational and extracurricular activities; convenient debit and ID card services; and top-notch housing and dining facilities. These programs are administered through several different areas of the University, such as Student Affairs, Academic Affairs, or Auxiliary and Support Services. For more information about any of these services, please refer to the contact information provided under each section.

Action Card

The Action Card serves multiple purposes at The University of Alabama. Your Action Card is the official University photo identification card and is used for access to:

- NCAA athletic events (for football games you will also need a ticket)
- University Libraries (in order to check out books)
- University recreation facilities (Student Recreation Center and pool, aquatic aenter)
- Computer Labs, Student Health Center, Campus entertainment events and My Football tickets
- Campus facilities access

The Action Card accounts are similar to a checking account; with a prepaid deposit of funds, you can then use your card to make purchases at participating locations. There are three types of Action Card accounts: Bama Cash, Dining Dollars and Meal Plans. Bama Cash is an optional account, which, once established with a deposit of funds, allows students to pay for purchases at a wide variety of on- and off-campus locations. For details, visit our website at actcard.ua.edu.

The My Action Card online services (actcard.ua.edu) allow cardholders access to their debit account information for both Bama Cash and Dining Dollars to check balances and review transaction history. Through My Action Card online, cardholders can also deposit funds directly to Bama Cash via Visa, MasterCard and Discover cards. Cardholders may also review Meal Plan activity from this site.

The Action Card Office is located in 104 Student Services Center. Office hours are Monday–Friday, 8 a.m.–5 p.m. Students can reach the office by phone at (205) 348-2288. You can also follow us on Facebook at The University of Alabama Action Card Office.

Center for Academic Success

The Center for Academic Success (CAS) provides academic support designed to improve students' academic performance. Students may obtain program information, use resources or talk with a staff member about services by visiting 101 Osband Hall or by calling (205) 348-5175. The center is open Monday through Thursday from 8 a.m. to 10 p.m. and Friday from 8 a.m. to 4:45 p.m. Visit our website at cas.ua.edu for more information.

Academic Support Services

Learning Enhancement

The CAS maintains a dual-service orientation to advance learning strategies for academically gifted students and to enhance learning strategies for students who need to strengthen their academic performance. Learning Services are provided to help students:

- succeed in University of Alabama courses
- improve study techniques
- improve reading proficiencies
- prepare for professional school and graduate school entrance examinations

Independent Study Lab

In the Independent Study Lab (124 Osband Hall), students can use computer programs, videotapes, multimedia programs and other self-paced learning materials. The lab has resources for students who want to improve their study skills or their performance in language, math, biology, chemistry, physics, statistics and engineering. Videotaped lectures from many math, chemistry, engineering and statistics courses are available in the lab. The lab also provides resources for entrance exam preparation.

Tutorial Assistance Program

The Tutorial Assistance Program provides individualized help with specific classes. There is no charge for this service, and appointments may be made by visiting Osband Hall, calling the Center at (205) 348-5175 or online via our website.

Study Skills Courses

The CAS offers two Study Skills Courses. In NEW 222 (p. 32) Academic Potential, students learn efficient ways to pursue academic activities. BEP 110 (p. 32) Introduction to Learning Strategies and Skills is a 3-hour course designed to improve learning skills and strategies. In addition, non-credit Study Skills Workshops are offered frequently, covering topics like time management, speed reading, reading comprehension, vocabulary enhancement, note taking, memory methods, test preparation, test taking and motivation.

CAS also offers BCE 101 (p. 32) Freshman Compass Course. This course focuses on student success by helping first-year students:

- acquire an orientation to the functions and resources of the University
- adjust to the University environment
- establish relationships through interaction with faculty, advisers and other students
- develop essential academic skills

Students who plan to take entrance examinations for graduate or professional school can review relevant materials in the Independent Study Lab. Additionally, through the Kaplan on Campus Program, UA students can enroll in Kaplan review courses at a reduced cost.

Student Support Services

Student Support Services (SSS) is a comprehensive, federally funded TRIO program that offers academic assistance to qualified undergraduate students at The University of Alabama.

The goal of SSS is to increase retention and graduation rates of eligible students through academic assistance, counseling, advising and other forms of individualized support services. SSS participants are helped in determining their specific strengths and weaknesses so that the program can offer the most appropriate assistance for each student.

Key Program Components

Student Support Services participants will:

- receive individualized support services, including academic, career, financial and personal counseling, and advising
- receive tutoring in requested subjects when available
- have the option of participating (as a protege or mentor) in a Student Support Services Peer Mentoring Program
- prepare for successful entry into the job market with career planning
- receive a Kaplan Graduate School Entrance Exam Review at no charge
- receive guidance in developing effective graduate school admissions plans
- attend seminars in a variety of areas to strengthen personal, professional and academic competencies
- participate in selected cultural events
- receive tuition waiver on college credit courses offered through SSS, including the following:
  - College Success (GS 111 (p. 32) Academic Skills)
  - College Writing (GS 111 (p. 32) Academic Skills)
  - Professional Development Seminar (GS 111 (p. 32) Academic Skills)
  - MATH 100 (p. 32) Intermediate Algebra (section 099 only)

Criteria for Eligibility

Any undergraduate student who is a citizen or permanent resident of the United States, has been accepted for enrollment at The University of Alabama, has a program-approved academic need* for assistance, and meets one or more of the following U.S. Department of Education criteria:

- is a first-generation college student (if you lived with both parents, both parents/guardians did not graduate from a four-year college or university; if you lived with only one parent, that parent did not graduate from a four-year college or university)
- is eligible for financial aid at a level established by the U.S. Department of Education
- is a student with a documented disability (physical or learning)

* Academic need, as defined for purposes of Student Support Services, includes any one or more of the following:

- high school GPA of 2.50 or below
- ACT score of 20 or below (composite score or any one subtest)

- SAT verbal score of 460 or below (total score)
- SAT math subscore of 460 or below
- placement in MATH 005 (p. 32) Introductory Algebra, MATH 100 (p. 32) Intermediate Algebra or EN 099 (p. 32) Basic Writing
- college cumulative GPA of 2.0 to 2.25
- semester GPA of 2.0 or below
- failing grades in one or more courses
- returning adult student (five or more years since last attended school)
- in danger of losing scholarship award
- enrollment in highly demanding and stressful courses of study, including engineering, nursing, math-based business and pre-med

Becoming a Participant

A student may apply to become a participant in the SSS program at any point in his or her undergraduate career (freshman to senior) and at any point in the semester. Applications will be reviewed at the beginning of each semester. If a student is deemed eligible to receive services and space is available in the program, he or she will be admitted. For an application or for more information, contact The University of Alabama, Student Support Services, 225 Osband Hall, Box 870304, Tuscaloosa, AL 35487-0304; (205) 348-7087; fax (205) 348-5585; cas.ua.edu/sss.

Disability Services

The Office of Disability Services (ODS) is the central contact point for University students with disabilities. The goal of ODS is to ensure that University programs and services are accessible to qualified students with disabilities. ODS works with faculty and other members of the University community to provide individualized academic accommodations and support services while promoting student responsibility and self-advocacy. It is the student's responsibility to make known a need for academic accommodations and services by providing appropriate documentation of the disability to ODS, formally requesting accommodations through meeting with an ODS case manager, and by presenting an official ODS accommodation letter to each of his or her professors.

For more information about services for students with disabilities, visit ods.ua.edu or call (205) 348-4285 (voice) or (205) 348-3081 (TTY). Written correspondence should be addressed to The Office of Disability Services, Box 870185, Tuscaloosa, AL 35487-0185. ODS is located in Martha Parham East, Room 133-B.

International Services

International Services, located within the Capstone International Center of The University of Alabama, provides specialized services for international students, professors, research scholars, visitors and their families. International Services conducts intensive orientation programs and provides vital information regarding U.S. Immigration compliance as well as multicultural guidance and counseling. These are ongoing services that monitor individual progress according to Department of Homeland Security regulations.

Great emphasis is placed on international student programming. International Services coordinates a wide variety of student activities, such as a weekly international coffee hour, an annual international education week and an annual "Welcome" reception for international students at the President's Mansion.

Professional staff members advise and assist the International Student Association, which represents all international students and the many nationality organizations on campus. Professional staff work closely with community groups such as the Rotary Club of Tuscaloosa, which sponsors the Rotary International Student Center — an on-campus residence for male and female students and a gathering place that fosters international friendships. Tuscaloosa's International Friends (TIF) sponsors a friendship family program for international students.

International Services may be contacted by telephone at (205) 3485402; by fax at (205) 348-5406; or by mail at The University of Alabama, International Services, Box 870254, Tuscaloosa, AL 35487-0254, USA. Offices are located in 105 B.B. Comer Hall.

Student Affairs

The Division of Student Affairs maximizes each UA student's learning experience. Each unit within the division fosters an environment that supports learning, healthy lifestyles, leadership and career development, personal growth, and inclusiveness. In keeping with the University's mission and heritage, the division works to provide students with the experiences and skills that lead to academic success and productive and fulfilled lives. To this end, the Division of Student Affairs complements and supplements the academic enterprise, maintaining both a climate on campus and range of programs that enhance student learning and personal growth.

Career Center

The Career Center is a vital part of each student's college education. Students do not necessarily need to select a major when they are freshmen, but they need to begin to explore academic majors and the many career options that can be available for all majors. Even students considering attending graduate or professional education when they complete college should discuss career and graduate school options with a career consultant. All students should visit the Career Center or one of the Satellite Offices during their first semester at the University. The Main Office is located at 330 Ferguson Center. A Satellite Office is in 250 Bidgood Hall. The Career Center offers a comprehensive range of career development services and employment opportunities. All Career Center offices are open Monday through Friday from 8 a.m. to 5 p.m., and there is 24/7 online access to job postings, resume referrals and on-campus recruiting through Crimson Careers. To schedule an appointment or for more information, call (205) 348-5848. Specific information on services is available at career.ua.edu.

Community Service Center

The Community Service Center educates students for service advocacy and leadership, civic responsibility, and lifelong volunteerism by increasing awareness of community needs, resources and opportunities for social problem solving. The Community Service Center connects students to volunteer opportunities on campus, in the Tuscaloosa community and across the country. For more information, visit volunteer.ua.edu.

Counseling Center

The Counseling Center helps students achieve academic success and personal growth through quality counseling, psychological and consultative services. By providing emotional health care services of a short-term nature, the Counseling Center serves as a screening, intake and referral resource that assists all students in identifying their needs and locating an appropriate resource if their needs are outside the scope of services offered. Among the services provided are individual, couple and group counseling; substance abuse counseling; crisis intervention; and medication referral services. For general information and assistance, please call (205) 348-3863 or visit counseling.ua.edu.

Dean of Students

The Office of the Dean of Students is a natural starting place for students who have questions or concerns about their experience at the University. The office works collaboratively with other offices in Student Affairs and Academic Affairs to engage and support students during their experience at the Capstone. The mission of the Dean of Students Office is to maximize each UA student's learning experience by fostering personal development through opportunities for participation, involvement and engagement. The division of Student Affairs provides educational experiences outside the classroom that serve to develop students personally, socially and spiritually, ensuring that they are also responsible citizens of the world. The Dean of Students ensures that there is immediate contact with students and their families. The areas in the Dean of Students office include: the Women's Resource Center, Greek Affairs, Student Judicial Affairs, Campus Ministers, Graduate Student Services, Parent Programs and the On-Call Dean program. For more information about programs and services, call (205) 348-3326 or visit dos.ua.edu.

First Year Experience

First Year Experience (FYE) is an area of the Division of Student Affairs committed to supporting the academic and social transition to The University of Alabama. We define a first-year student as any undergraduate student attending the University for the first time. FYE seeks to help students understand expectations associated with being a member of the Capstone and educate first-year students about various support services on campus. FYE provides support, resources, and programs for freshman and transfer students as they build the foundation of their Capstone experience. To find out more about First Year Experience, call (205) 348-8404 or visit fye.ua.edu.

Housing and Residential Communities

Housing and Residential Communities provides safe, secure housing for undergraduate and graduate students that support their academic success. Campus housing provides leadership opportunities and avenues for campus involvement and engagement. For more information about campus housing, call (205) 348-6676 or visit housing.ua.edu.

National Student Exchange

The National Student Exchange (NSE) offers opportunities for students to broaden their educational experience through exchange programs with nearly 200 universities across the United States, Canada, Guam, Puerto Rico and the U.S. Virgin Islands.

Through NSE, students may exchange to another member institution for a semester or academic year and pay that university's in-state tuition. Students coordinate

with their college registrar on course selection and credit transferability. Students should discuss their choice of courses with their adviser. Students must at least have sophomore standing and a 2.5 GPA or higher at the time of the exchange. Students receiving federally funded financial aid at UA can expect to receive similar aid from the host institution. With nearly 200 participating institutions and a 97 percent placement rate, students can generally find a location to meet both academic and personal objectives. However, a student's first choice of a host school is not guaranteed.

For further information, visit nse.ua.edu, call our NSE coordinator at (205) 348-6114, or come by the Office of Student Involvement and Leadership at 355 Ferguson Center. The deadline for applications for each academic year (beginning with the fall semester) is February 1.

Parent Programs

The Office of Parent Programs supports the successful academic and social transition of new students into The University of Alabama community, as well as promotes continuous relationships among our students' parents, families and the University. Parents of students can also find the answers to their questions and learn how to best support their student's education and outside-of-the-classroom experiences. For more information about parent programs, including Family Weekend in the fall, call (800) 392-2777 or visit parents.ua.edu.

Student Involvement and Leadership

The mission of the Office of Student Involvement and Leadership is to provide opportunities for co-curricular experience as well as service to the University and the community. This office helps each student customize and enhance his/her educational experience to fit that student's goals and interests. To find out more about the many ways to get involved on campus, visit leadership.ua.edu or call (205) 348-6114.

Student Media

The Office of Student Media provides UA students with direct, hands-on, real-life experience that prepares them for any career and sets them on a path to success after graduation. Student Media offers out-of-classroom opportunities through The Crimson White, a 15,000-circulation daily newspaper; Corolla, a 115-year-old yearbook; WVUA, a non-commercial radio station at 90.7 FM; Marr's Field Journal, an undergraduate literary/art journal; Black Warrior Review, a graduate-level national literary journal; Southern Historian, a graduate-level research journal; and a Digital Media unit that develops content and services for the Web. For more information, visit osm.ua.edu or call (205) 348-7257.

University Recreation

University Recreation conducts sports and fitness programs for the University community that strengthen well-being, learning and personal growth. Programmatic areas include intramural sports, sport clubs, outdoor recreation, personal training, fitness testing and consultations, group exercise classes, non-credit instructional classes, aquatic services, and informal (open) recreation. Facilities available include the ultramodern, award-winning Student Recreation Center, University Aquatic Center, Outdoor Fields Complex, Outdoor Pool Complex and Tennis Courts. For more information on these facilities and programs, call (205) 348-3994 or visit urec.sa.ua.edu.

University Union

The University Union supports, supplements and complements the overall academic, research and service mission of The University of Alabama by offering a variety of high-quality services, collaborative programming and leisure-time activities.

The University Union's Ferguson Center serves as the center of the campus community and is open more than 340 days per year, seven days per week and at least 15 hours per day to serve the needs of the campus community. The Ferguson Center is the site of many University offices, including the Career Center and the Community Service Center, as well as other offices dedicated to serving students.

Conference and meeting room reservations for the Ferguson Center, Student Services Center and Ferguson Plaza are also made through the Ferguson Center Reservations and Event Planning Office. For more information and to access the Online Room Reservation Form, please visit ferguson.ua.edu or call (205) 348-2827.

Women's Resource Center

The Women's Resource Center empowers women on campus through programs on leadership, women's issues, peer education, volunteer opportunities and support. The center provides students with counseling and advocacy services when dealing with issues of dating violence, sexual assault, childhood abuse or stalking. The mission of the Women's Resource Center supports the values of social justice, community, safety, leadership, mentoring, education, diversity and research.

There are opportunities to get involved through ongoing programs, such as the Women Involved in Learning and Leading program (WILL); the Young Women Leaders program (YWLP); the Men Against Violence program (MAV); and Unscripted, the peer-educator program. Additionally, there are opportunities to be involved with special events and programming sponsored and co-sponsored by the Women's Resource Center, such as the Brown Bag Lunch Series, book clubs, conferences and awareness event activities.

For additional information about programs and services, contact the Women's Resource Center at (205) 348-5040 or visit wrc.ua.edu.

Veteran and Military Affairs

The mission of The Center for Veteran and Military Affairs is to provide, facilitate, or coordinate programs and services to meet the special needs of veterans, service members, dependents and survivors in order to ease their transition to college life and fulfill their educational goals. To find out more about the Center for Veteran and Military Affairs, call (205) 348-0983 or visit vets.ua.edu.

Student Health Center

The University of Alabama provides comprehensive, high-quality and easily accessible health care for its students through the University of Alabama Student Health Center (UASHC). Located at the corner of University Boulevard and 5th Avenue East, next to the University Medical Center, the UASHC is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). The UASHC can meet most, though not all, medical needs of University of Alabama students. For more information, call (205) 348-6262 or visit cchs.ua.edu/shc.

Transportation and Parking Services

Campus parking maps, along with campus parking rules and regulations, are available at the Transportation Services offices located at 103 Student Services Center or online at bamaparking.ua.edu.

UA Police Department

For information on University Police services and personal safety information, consult the Safer Living Guide available at the main desk of the UA Police Department, UA residential dorms, UA libraries and at businesses surrounding the UA campus, or visit our website at police.ua.edu. The UA Annual Campus Security Report, containing crime statistics as well as crime prevention policies and procedures, is available online at safety.ua.edu.

University Libraries

With access to over 3 million print and electronic resources, University Libraries, a system of five separate disciplined-related libraries, provides both traditional resources and cutting-edge technology. Three additional libraries are attached to their respective administrative units (Health, Law and Maps). As research has become increasingly interdisciplinary in nature, students may find collections of importance in more than one library.

The University Libraries' website, lib.ua.edu, available 24/7 from any computer, provides all library users with access to integrated collections, services and information resources. Currently, the University Libraries system provides access to over 30,000 full text electronic journals. In addition, more than 300 databases, including indexes, abstracts and other reference resources, are linked from the Libraries' website. A growing number of electronic books are also being added to the collection in all disciplines. Course specific software is available on a number of computers within the Libraries.

The Libraries' catalog, containing records for more than 3 million items in all formats (print, microfilm, archival, serials), can also be accessed via the Libraries' website. Digital collections from the W. S. Hoole Special Collections Library are linked through a separate catalog on the home page. Links to books and electronic materials on reserve, Interlibrary Loan services, and other self-initiated services such as renewing books and requesting materials from the Libraries' Annex are also available. Faculty and students also have access to research collections encompassing more than 1 million titles from the Center for Research Libraries (CRL) via Interlibrary Loan.

The University Libraries system offers academic software to support student assignments and class projects. Software is upgraded and added annually. Students can find locations of the current programs available on library computers by accessing the Libraries' website.

Subject specialists work closely with students and faculty to assist them in ordering or locating materials and in advising students and faculty who need specialized assistance with research projects. A list of subject specialists is available on the Libraries' website. Reference services are available in person, over the phone

and online through the Ask-a-Librarian service. University Libraries also provides services for users with disabilities.

Amelia Gayle Gorgas Library contains the social sciences, arts and humanities collection and features a state-of-the-art Learning Commons. Located on the first floor are the Music Library and the Digital Humanities Center. For students needing digital media for class projects or individual papers, expert assistance is provided in the Sanford Media Center located on the second floor. Reference assistance is available on the first floor and online. Study rooms can be found on the second floor of the building. The Center for Academic Success and the Writing Center both provide services in Gorgas Library.

The 2010 acquisition of the A.S. Williams III Americana Collection, located on the third floor, brings to Gorgas Library an additional 20,000 volumes, over 14,000 photographs, hundreds of maps, as well as numerous other valuable historical artifacts. The book collection published between the late 17th century and 2009 pertain to the US presidents and the history and culture of the South. The Civil War is particularly well represented with some 6,000 volumes, published from the earliest days of Secession to the present, reflecting the observations and opinions of the Union, the Confederacy, European visitors during the War, veterans and subsequent generations of scholars. Unpublished portions of the collection contain archival materials ranging from 19th-century letters, diaries and newspapers to business records and a wide variety of documents recording the American experience of both the famous and the unknown from the mid-18th century to the Great Depression. Particularly noteworthy are some 12,000 photographs of the South taken between the 1850s and the mid-1930s.

The Angelo Bruno Business Library serves the business information needs of The University of Alabama, and in particular the students and faculty of the Culverhouse College of Commerce and Business Administration (C&BA) and the Manderson Graduate School of Business. The 64,000-square-foot facility is conveniently located on Stadium Drive within the C&BA complex and also houses the College's Sloan Y. Bashinsky Sr. Computer Center. Combining business library services and business computer laboratory services in the same facility provides seamless access to information services for business students.

The McLure Education Library serves primarily the faculty, students and staff of the College of Education and the Graduate School of Education. McLure Library includes the School Library and Curriculum Materials Center on the lower level, reference and periodical areas and public computer areas on the main floor, and study rooms and a computer lab on the third floor. The main collection of the library is made up of professional books related to education (which includes sports and physical education) including a reference collection on the main floor. The School Library collection contains approximately 20,000 trade books for preschool through young adult readers, and the Curriculum Materials Center holds about 10,000 items including K-12 textbooks, curriculum guides, supplemental classroom materials, and educational media including CD's, DVD's, videos, kits, games and other types of items.

Rodgers Library for Science and Engineering serves students and faculty in the sciences, engineering and nursing programs. Rodgers is the first departmental library built with the intent of taking maximum advantage of computer-based information systems for teaching and research. Rodgers Library is located immediately south of Shelby Hall and the Science and Engineering Complex, north of the Biology Building and one building west of the Campus Drive Parking Deck. Several study rooms are available in Rodgers for groups and include state of the art technology. Rodgers is open 24 hours Monday-Thursday for late night study hours.

The W. S. Hoole Special Collections Library, located on the second floor of Mary Harmon Bryant Hall, contains materials related to Alabama and the Deep South (including manuscripts, rare editions, Confederate imprints, pamphlets and maps), archives of the University, and Alabama state publications.

Under separate administration are the Health Sciences Library located in the University Medical Center, the Bounds Law Library located in the Law Center and the Map Library located in Farrah Hall.

The University of Alabama has an academic membership in the Association of Research Libraries, a selective group of institutions emphasizing research and graduate instruction at the doctoral level and supporting large, comprehensive collections of library materials. The University Libraries system also holds memberships in the Center for Research Libraries, the Association of Southeastern Research Libraries, the Southeastern Library Network, the Coalition for Networked Information and the Network of Alabama Academic Libraries.

Writing Center

The University of Alabama Writing Center, a free consultation service available to all UA students, provides assistance with writing assignments in most academic disciplines. Staffed by graduate students, the Writing Center helps students to improve their writing relative to specific assignments and to apply newly learned skills to future writing tasks. The Writing Center is located in 322 Lloyd Hall. Appointments are encouraged; walk-ins are welcome. Visit writingcenter.ua.edu for complete details.

Code of Student Conduct

The University of Alabama aspires to transmit knowledge, to develop its students and to promote the quality of society. In seeking these goals, the University recognizes the significance of student rights. These rights include freedom of expression, autonomy, procedural protection and the integrity of people and their property. By ensuring these individual rights, the University fosters an environment conducive to student success and well-being. The Code of Student Conduct fully respects student rights.

Of course, students have obligations as well as rights. As members of an academic community, they must observe rules that benefit their classmates and their University. Students must practice personal integrity. By so doing, they respect the dignity, rights and property of others (both students and all members of the University community). The Code of Student Conduct thus creates an expectation of behavior that the University deems acceptable. By fulfilling these expectations, students can enjoy their own rights while also respecting their classmates' rights and furthering the University's goals.

However, the University community, as any other, must have a system to deal with those instances when a member fails to adhere to the expectations of the community. The Code of Student Conduct describes the actions which fail to meet expectations, the process of determining when a failure has occurred and the punishment to be imposed for such failure.

Judicial Affairs

Located in 107 Burke West, the Office of Student Development promotes a safe and supportive University community by serving as a resource for students, faculty and staff who may be affected by others' misconduct. In addition to the administration of the Code of Student Conduct, the office is an advocate for community standards and campus civility through educational programming, mediation and resolution of student disputes and conflicts of non-academic misconduct. For general information and assistance, contact The University of Alabama, Office of Student Judicial Affairs, Box 870295, Tuscaloosa, AL 35487-0295; or call (205) 348-8234.

In the event of any conflict, the Code of Student Conduct found at policies.ua.edu/studentcode.html will govern.

Preamble

The University of Alabama aspires to transmit knowledge, to develop its students and to promote the quality of society. In seeking these goals, the University recognizes the significance of student rights. These rights include freedom of expression, autonomy, procedural protection, and the integrity of people and their property. By ensuring these individual rights, the University fosters an environment conducive to student success and well-being. The Code of Student Conduct fully respects student rights.

Of course, students have obligations as well as rights. As members of an academic community, they must observe rules that benefit their classmates and the University. Students must practice personal integrity. By so doing, they respect the dignity, rights and property of others, both students and all members of the University community. The Code of Student Conduct thus creates an expectation of behavior that the University deems acceptable. By fulfilling these expectations, students can enjoy their own rights while also respecting their classmates' rights and furthering the University's goals.

However, the University community, as any other, must have a system to deal with those instances when a member fails to adhere to the expectations of the community. The Code of Student Conduct describes the actions which fail to meet expectations, the process of determining when a failure has occurred and the punishment to be imposed for such failure.

Article I: Judicial Authority

The judicial authority rests with the Division of Student Affairs. The University president has designated the vice president for student affairs to be responsible for the administration and operation of this Code of Student Conduct. The vice president shall appoint a judicial administrator who shall be responsible for the operation of this Code.

Jurisdiction of the University

Generally, University jurisdiction and discipline shall be limited to conduct which occurs on University premises or which occurs anywhere, but adversely affects the University community and/or the pursuit of its objectives. A student will be subject to the Code of Student Conduct for any action which violates this Code, which occurs on University property, or which affects the University community and/or pursuit of University objectives.

Violation of Law and University Discipline

1. If a student is cited only with an off-campus violation of federal, state or local laws, but not with any other violation of the Code, disciplinary action may be taken and sanctions imposed for misconduct which demonstrates disregard for the University community.
2. University disciplinary proceedings may be instituted against a student cited with violation of a law which is also a violation for this student code if both violations result from the same factual situation, without regard to the pendency of civil litigation in court or criminal arrest and prosecution. Proceedings under this student code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.
3. When a student is cited by federal, state or local authorities with a violation of the law, the University will not request or agree to special consideration for that individual because of his or her status as a student. If the alleged offense is also the subject of a proceeding before a judicial body under the student code, the University may advise off-campus authorities of the existence of the student code and of how such matters will be handled internally within the University community. The University will cooperate fully with law enforcement and other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and faculty members, acting in their personal capacities, remain free to interact with governmental representatives as they deem appropriate.

Article II: Definitions

1. The term "University" means The University of Alabama, Tuscaloosa, Ala.
2. The term "students" includes all persons taking courses at the University, both full-time and part-time, pursuing undergraduate, graduate or professional studies. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the University are considered "students."
3. The term "faculty member" means any person hired by the University to conduct classroom activities.
4. The term "University official" includes any person employed by the University performing assigned administrative or professional responsibilities.
5. The term "member of the University community" includes any person who is a student, faculty member, University official or any other person employed by the University. A person's status in a particular situation shall be determined by the judicial administrator.
6. The term "University premises" includes all land, buildings, facilities and other property in the possession of or owned, used or controlled by the University (including adjacent streets and sidewalks).
7. The term "organization" means any number of persons who have complied with the formal requirement for university recognition/registration.
8. The term "judicial body" means any person or persons authorized by the judicial administrator to determine whether a student has violated the Code of Student Conduct and to recommend imposition of sanctions.
9. The term "judicial administrator" means the University official appointed by the vice president for student affairs who shall be responsible for the administration and operation of the Code of Student Conduct.
10. The term "judicial investigator" means a University official appointed by the judicial administrator to investigate alleged violations of misconduct, to attempt informal (administrative) resolution of such complaints and to prosecute violations before a judicial body.
11. The term "hearing officer" means a University official authorized on a complaint-by-complaint basis by the judicial administrator to hear alleged violations and to recommend sanctions to be imposed upon students found to have violated the Code of Student Conduct.
12. The term "review board" means any person or persons authorized by the judicial administrator to consider a review from a judicial body's determination that a student has violated the student code or from the sanctions imposed by the judicial administrator.
13. The term "shall" is used in the imperative sense.
14. The term "may" is used in the permissive sense.
15. The term "policy" is defined as any published regulations of the University as found in, but not limited to, the Student Handbook, Residential Life Handbook and graduate/undergraduate catalogs.

16. The term “substantial information” means information which would lead a reasonable person to conclude that it is more likely than not that the act in questions did occur.

Article III: Proscribed Conduct

Any student found to have committed the following acts of misconduct is subject to the disciplinary sanctions outlined in Article V.

Offenses Against the University Community

1. Acts of dishonesty, including but not limited to the following:
   - furnishing false information to any University official, faculty member or office
   - forgery, alteration or misuse of any University document, record, or instrument of identification
   - tampering with the election of any University-recognized student organization
2. Disruption or obstruction of teaching, research, administration, disciplinary proceedings or other University activities, including its public-service functions, whether on or off-campus, and other authorized non-University activities which occur on University premises.
3. Failure to comply with directions of University officials or law enforcement officials acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so.
4. Violation of published University policies, rules or regulations, including, without limitation, the Social Event Alcohol Policy, parking and traffic regulations, etc.

Offenses Against Persons

1. Physical abuse, verbal abuse, threats, stalking, intimidation, harassment, sexual misconduct, coercion and/or other conduct which threatens or endangers the health or safety of any person. This paragraph is intended to include any contact or communication which threatens, harasses or injures a person.
2. Hazing, defined as an act which endangers the mental or physical health or safety of a student, or which destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with or as a condition for continued membership in a group or organization.

Offenses Against Property

1. Attempted or actual theft of and/or damage to property of the University or property of a member of the University community or other personal or public property.
2. Unauthorized possession, duplication or use of keys to any University premises or unauthorized entry to or use of University premises.
3. Theft or other abuse of computer time, including but not limited to:
   - unauthorized entry into a file to use, read or change the contents, or for any other purpose
   - unauthorized transfer of a file
   - unauthorized use of another individual’s identification and password
   - use of computing facilities to interfere with the work of another student, faculty member or University official
   - use of computing facilities to send obscene or abusive messages
   - use of computing facilities to interfere with normal operation of the University computing system
4. Damage to or littering on public grounds of the University, including driving motor vehicles on lawns or grounds of University property, without prior authorization from the appropriate University official.

Offenses Disrupting Order or Disregarding Health and Safety

1. Use, possession or distribution of narcotic or other controlled substances, except as expressly permitted by law.
2. Use, possession or distribution of alcoholic beverages, except as expressly permitted by the law and University regulations, or public intoxication.
3. Illegal or unauthorized possession of firearms, explosives, other weapons or dangerous chemicals on University premises.
4. Participation in a campus demonstration which disrupts the normal operations of the University and infringes on the rights of other members of the University community; leading or inciting others to disrupt scheduled and/or normal activities within any campus building or area; and intentional obstruction which unreasonably interferes with freedom of movement, either pedestrian or vehicular, on campus.
5. Obstruction of the free flow of pedestrian or vehicular traffic on University premises or at University-sponsored or supervised functions.
6. Conduct which is disorderly, lewd or indecent; breach of peace, or aiding, abetting or procuring another person to breach the peace, on University premises or at functions sponsored by, or participated in by, the University.
7. Violation of federal, state or local law on University-premises or at University sponsored or supervised activities.
8. Entering false fire alarms or bomb threats and/or tampering with fire extinguishers, alarms or other safety equipment.
9. Violation of traffic and parking rules and regulations, including but not limited to:
   - repeated or flagrant violations of the rules as set forth in University Traffic and Parking Regulations
   - tampering with, removal of or theft of wheel locks, barricades, traffic cones or traffic control devices
10. Violation of federal, state or local law off University premises and not related to University sponsored or supervised activities which adversely affects the University community and/or the pursuit of its objectives. The decision to pursue disciplinary action under this provision is that of the vice president for student affairs or a designee.
11. The operation of any form of gambling business or any activity sponsored by an organization identified as an approved University organization unless specifically approved by the Office of the Dean of Students. Any student or group of students who accepts or manages a large number of wagers or who provides the mechanisms for wagering or for playing games of chance for profit will be presumed to be operating a gambling business.
12. Facilitating or encouraging gambling by a student athlete or seeking or encouraging a student athlete to provide information or advice regarding competitions in which he or she will participate.

Article IV: Organizational Misconduct

Student organizations enrich the campus and community by providing a source of intellectual, personal and social development of students through their programs and activities. The University fulfills an important mission by providing procedures and policies for the registration and support of student organizations.

Inherent in University recognition of student organizations is the obligation for each organization to conduct activities in accordance with University rules and policies and applicable laws. Student organizations are required to comply with the written rules and policies of the University.

Responsibility of Officers

A fundamental aspect of any organization is the right of the membership to elect officers who serve to ensure, among their other duties, that the activities of the organization are conducted properly. It is the responsibility of the officers of each student organization to ensure that the organization complies with this Code of Student Conduct and to actively oppose and prevent any planned organizational activity which would violate the Code of Student Conduct. It is also the obligation of the officers of any student organization to advise and counsel individual members of their organization whose conduct could lead to misconduct violations against the organization, as provided herein.

Article V: Judicial Procedures

Complaints and Investigations

1. Any member of the University community may file complaints against any student for misconduct. Complaints shall be prepared in writing and directed to the Office of Student Judicial Affairs. Any alleged violation should be submitted as soon as possible after the event takes place, preferably within one month (28 days) of the knowledge of occurrence.
2. Any judicial investigator, who has reason to believe that a violation of the Code of Student Conduct may have occurred, is authorized to begin an investigation in the same manner as if a written complaint had been received. The Office of Student Judicial Affairs may investigate and cite students or organizations with misconduct when that office has reason to believe that a violation may have occurred.
3. A judicial investigator or judicial body may issue a summons for a student or organization to appear for discussions about a complaint or for a hearing in a pending complaint. The summons may also include an order to produce records which may be helpful in the course of an investigation or in the prosecution of a complaint.

4. The judicial investigator may conduct an investigation to determine if the alleged violations have merit and/or if they can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to the judicial investigator, subject to the approval of the judicial administrator. Such disposition shall be final and there shall be no subsequent proceedings.
5. All alleged violations shall be presented to the accused student in written form. A time shall be set for a hearing, not less than five nor more than 15 calendar days after the student has been notified. Maximum time limits for scheduling of hearings may be extended at the discretion of the judicial administrator.

Hearings

1. Hearings shall be conducted by a judicial body according to the following guidelines. A hearing officer shall exercise all the powers attributable to the chairperson of the judicial body as described below. Student organizations shall have all the rights of students listed herein, which shall be exercised by the president of the organization.
   - Hearings normally shall be conducted in private. At the request of the accused student, and subject to the discretion of the chairperson of the judicial body, a representative of the student press may be admitted, but shall not have the privilege of participating in the hearing.
   - Admission of any person to the hearing shall be at the discretion of the chairperson of the judicial body.
   - In hearings involving more than one accused student, the chairperson of the judicial body, in his or her discretion, may permit the hearings concerning each student to be conducted separately.
   - The accused has the right to be assisted by any adviser he/she may choose, at their own expense. The adviser may be an attorney. The accused is responsible for presenting his or her own case, and, therefore, advisers are not permitted to speak or to participate directly in any hearing before a judicial body.
   - The judicial investigator and the accused shall have the privilege of presenting witnesses, subject to the right of cross-examination by the other party and by the judicial body.
   - Pertinent records, exhibits and written statements may be accepted as information for consideration by a judicial body at the discretion of the chairperson.
   - All procedural questions are subject to the final decision of the chairperson of the judicial body.
   - After the hearing, the judicial body shall deliberate in private and shall determine (by majority vote if the judicial body consists of more than one person) whether the student has violated the Code of Student Conduct as cited.
   - The judicial body's determination shall be made on the basis of whether there is substantial information that the accused student violated the Code of Student Conduct.
2. There shall be a single verbatim record, such as a tape recording, of all hearings before a judicial body. The record shall be the property of the University.
3. Except in the case of a student cited with failing to obey the summons of a judicial body or University official, no student may be found to have violated the Code of Student Conduct solely because the student failed to appear before a judicial body. In all cases, the information in support of the alleged violation shall be presented and considered.

Sanctions

1. The following sanctions may be imposed upon any student found to have violated the Code of Student Code:
   - Warning—a notice in writing to the student.
   - Probation—a written reprimand for violation for specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any University regulation(s) during the probationary period.
   - Loss of privileges—denial of specified privileges for a designated period of time.
   - Fines—previously established and published fines may be imposed.
   - Restitution—compensation for loss, damage or injury. This may take the form of appropriate service and/or monetary or material replacement.
   - Discretionary sanctions—work assignments, service to the University or other related discretionary assignments (such assignments must have the prior approval of the judicial administrator).
   - Residence hall suspension—separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
   - Residence hall expulsion—permanent separation of the student from the residence halls.
   - University suspension—separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
   - University expulsion—separation of the student from the University permanently or on an indefinite basis. A student permanently expelled is prohibited from reapplying to the University in the future or from earning a degree from any of its colleges or schools. Readmission of a student expelled on an indefinite basis may not occur within five (5) years and shall require the recommendation of the Vice President for Student Affairs and approval of the Provost. If a disciplinary action results in the Judicial Administrator determining that expulsion is the appropriate sanction, then the Vice President for Student Affairs shall review the sanction and shall make the final decision to expel after consultation with the President of the University. Because a decision to expel a student is made after consultation with the President, a student has no right to request a review of the sanction of expulsion.
2. The following sanctions may be imposed upon any organization found to have violated the Code of Student Conduct:
   - any of the sanctions listed in the first six paragraphs above
   - loss of recognition as a registered student organization; the Office of the Dean of Students shall notify any national or regional governing body with which the organization is associated or which sponsors social, academic or sports events when such suspension is imposed.
3. More than one of the sanctions listed above may be imposed for any single violation.
4. When a judicial body determines that a student has violated the Code of Student Conduct, the judicial body shall recommend a sanction to be imposed to the judicial administrator. The judicial administrator shall review the facts in the complaint, shall review any prior violations of the Code of Student Conduct by the student and shall determine the appropriate sanction to be imposed. The judicial administrator is not limited to sanctions recommended by the judicial body. The judicial administrator shall advise the student in writing of the sanction(s) imposed.

Reviews

1. A decision reached by the judicial body or a sanction imposed by the judicial administrator (excluding the sanction(s) of expulsion of a student, which is determined by the vice president for Student Affairs after consultation with the president) may be reviewed by a student to a review board within five school days of the decision. Such reviews shall be in writing and shall be delivered to the judicial administrator or his or her designee.
2. Except as required to explain the basis of new information, a review shall be limited to review of the verbatim record of the initial hearing and supporting documents for one or more of the following purposes:
   - to determine whether the original hearing was conducted fairly in light of the alleged violations and information presented, and in conformity with prescribed procedures giving the accused student a reasonable opportunity to prepare and to present a defense to the allegations of the misconduct
   - to determine whether the decision reached regarding the accused student was based on substantial information, that is, whether the facts in the complaint were sufficient to establish that a violation of the Code of Student Conduct occurred
   - to determine whether the sanction(s) imposed were appropriate for the violation of the Code of Student Conduct which the student was found to have committed
   - to consider new information, sufficient to alter a decision, or other relevant facts not brought out in the original hearing because such information and/or acts were not known to the person reviewing at the time of the original hearing
3. If a review is upheld by the review board, the matter shall be remanded to the original judicial body or the judicial administrator to allow reconsideration of the original determination.
4. Review of the sanction(s) by the review board may not result in more severe sanction(s) for the accused student or organization. Instead, following a review, the vice president for Student Affairs or other designee may, upon review of the complaint, reduce, but not increase, the sanctions imposed by the judicial administrator.

Disciplinary Records

Disciplinary sanctions shall not be made part of the student's permanent academic record, but shall become part of the student's confidential record. Complaints involving the imposition of sanctions other than University suspension shall be

expunged from the student's confidential record seven years from the year in which the offense occurred.

Interim Suspension

In certain circumstances, the vice president for student affairs, or other designee, may impose a University or residence-hall suspension prior to the hearing before a judicial body.

Interim suspension may be imposed only:

- to ensure the safety and well-being of members of the University community or preservation of University property
- to ensure the student's own physical or emotional safety and well-being
- if the student poses a definite threat of disruption of or interference with the normal operations of the University

During an interim suspension, the student shall be denied access to the residence halls and/or to the campus (including classes) and/or all other University activities or privileges for which the student might otherwise be eligible, as the vice president for student affairs, or other designee, may determine to be appropriate.

Upon a student's request, a review of the interim suspension shall be held by the vice president for student affairs, or other designee, within three working days of the interim suspension to determine if the suspension should continue until a hearing by a judicial body on the alleged violation of misconduct is held.

Military Programs

Air Force Studies (Air Force ROTC)

The program in Air Force Studies affords students opportunities to learn about the United States Air Force and its role in national security while exploring the opportunity to earn an Air Force officer's commission concurrent with a college degree. Freshman and sophomore courses are open to all students and incur no military obligation. The courses are fully accredited, 1-hour electives. To enroll in Air Force ROTC, a student simply registers for a course in Air Force Studies. **Air Force ROTC courses are currently not offered through distance learning.**

Officer Training Corps Studies (Army ROTC)

Army ROTC is a college elective that focuses on leadership and management skills. The ROTC program consists of the Basic Course and the Advanced Course. The Basic Course provides college students the opportunity to learn about and experience the U.S. Army without incurring any military obligation during their freshman and sophomore years. The Advanced Course prepares juniors, seniors and graduate students for commissioning as officers in the active U.S. Army, U.S. Army Reserve or Army National Guard. **Army ROTC courses are currently not offered through distance learning.**

Faculty

Lieutenant Colonel

Ken Kemmerly, U.S. Army Commander and Professor of Military Science

Terri L. Raines, U.S. Air Force Commander and Professor of Aerospace Studies

Air Force Studies (AFS) Courses

AFS 101. Leadership Laboratory. 1 sem. hr.

AFS 102. Leadership Laboratory. 1 sem. hr.

AFS 110. Foundations Of The Usaf. 1 sem. hr.

AFS 120. Foundations Of The Usaf. 1 sem. hr.

AFS 201. Leadership Laboratory. 1 sem. hr.

AFS 202. Leadership Laboratory. 1 sem. hr.

AFS 230. Evolutn Of Us Air Power. 1 sem. hr.

AFS 240. Evolutn Of Us Air Power. 1 sem. hr.

AFS 301. Leadership Laboratory. 1 sem. hr.

AFS 302. Leadership Laboratory. 1 sem. hr.

AFS 350. Usaf Leadership Studies. 3 sem. hrs.

AFS 360. Usaf Leadership Studies. 3 sem. hrs.

AFS 401. Leadership Laboratory. 1 sem. hr.

AFS 402. Leadership Laboratory. 1 sem. hr.

AFS 470. National Security Affair. 3 sem. hrs.

AFS 480. National Security Affair. 3 sem. hrs.

AFS 491. Leadership Laboratory. 1 sem. hr.

AFS 492. Leadership Laboratory. 1 sem. hr.

Military Science (MIL) Courses

MIL 101. Beginning Army Fitness. 1 sem. hr.

MIL 102. Beginning Army Fitness Train. 1 sem. hr.

MIL 110. Leadership/Natl Security. 1 sem. hr.

MIL 111. Leadership Application I. 1 sem. hr.

MIL 120. Foundatn Leadershp Team Develm. 1 sem. hr.

MIL 121. Leadership Development. 1 sem. hr.

MIL 201. Int Army Fitness Training. 1 sem. hr.

MIL 202. Intermed Army Fitness Train. 1 sem. hr.

MIL 210. Basic Leadership Skills. 2 sem. hrs.

MIL 211. Basic Leadership Development. 1 sem. hr.

MIL 220. Military Leadership Skills. 2 sem. hrs.

MIL 221. Mil Leadership Mgt Applicn II. 1 sem. hr.

MIL 250. Leader Trng Course Basic Camp. 6 sem. hrs.

MIL 301. Advanced Army Fitness. 1 sem. hr.

MIL 302. Advanced Army Fitness Training. 1 sem. hr.

MIL 310. Small Unit Tactical Leadership. 3 sem. hrs.

MIL 311. Small Unit Leader Appl Lab I. 1 sem. hr.

MIL 320. Advanced Leadership Skills. 3 sem. hrs.

MIL 321. Small Unit Leader Appl Lab II. 1 sem. hr.

MIL 335. American Military Experience. 3 sem. hrs.

MIL 401. Army Fitness Development. 1 sem. hr.

MIL 402. Army Fitness Program Developmt. 1 sem. hr.

MIL 410. Military Science IV. 3 sem. hrs.

MIL 411. Adv Leadership Applicatn Lab I. 1 sem. hr.

MIL 420. Military Science IV. 3 sem. hrs.

MIL 421. Adv Leadersh Applicatn Lab II. 1 sem. hr.

MIL 490. Enhanced Leadership Stdy. 3 sem. hrs.

MIL 492. Design Fitness Program. 1 sem. hr.
Course prepares students to design and implement a rigorous physical fitness program in accordance with U.S. Army standards, focusing on a holistic approach to health and fitness. Offered in fall and spring semesters.
Prerequisite(s): MIL 321 and MIL 311; or MIL 411 and MIL 421.

MIL 493. Risk Management and Safety. 1 sem. hr.
Course prepares students to recognize risk behaviors and situations, plan safe and effective training, and reduce risks both on and off duty with a focus on awareness and prevention. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 494. Academic Mentorship Program. 1 sem. hr.
Course prepares students to design and implement an advising and mentoring program to increase retention of younger peers, focusing on organization and time management. Offerred fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 495. Operations Planning. 1 sem. hr.
Course prepares students to conduct staff estimates, plan training requirements, develop operations orders, and supervise training. Offered fall and spring semesters.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 496. Ethical Foundations. 1 sem. hr.
Prepares students to recognize risk behaviors and situations, plan counseling sessions, make informed referrals to assistance agencies, and improve the quality of life for employees. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 497. Human Resources Internship. 1 sem. hr.
Prepars students to coordinate personnel actions, prepaare military memoranda, manage databases, and perform clerical duties expected of future officers, Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

Air Force Studies (Air Force ROTC)

Air Force ROTC is designed to include one course in Air Force Studies each semester for four years. However, a two-year option is available. To participate in the two-year program, interested students must contact the department no later than the beginning of the sophomore year second semester. Please contact the Office of Air Force Studies for more information.

A number of scholarships are available to qualified students in AFROTC. The scholarships pay full tuition, provide reimbursement for required books and fees, and provide $300 to $500 (tax free) per month, based on AFROTC year completed.

Advanced AFROTC courses (junior- and senior-level) are open not only to students who choose to work toward officer's commissions and who meet established aptitude, academic and physical standards required of officers, but also to other interested students.

General Military Course

The General Military Course (GMC) is designed for freshman and sophomore students who wish to explore the opportunity to pursue Air Force officer's commissions while studying the role of air power in today's society. Each General Military Course has a corequisite lab course each semester.

Professional Officer Course

The Professional Officer Course (POC), normally taken during the cadet's junior and senior years, is designed to commission highly qualified junior officers for the United States Air Force. This course concentrates on two main themes: concepts of leadership and management and national security forces in contemporary society.

Enrollment in the Professional Officer Course is open to all students who have met prerequisites, who have four semesters of school remaining (may include graduate studies), and who have received approval from the professor of Air Force studies. Please consult the department for details.

Three credit hours per semester, or a total of 12 credit hours, are granted for completion of the Professional Officer Course, plus one credit hour per semester for lab. Students enrolled in the program are paid a tax-free, $350-to-$400-per-month subsistence allowance.

AFROTC Field Training

Field training (FT) is offered during the summer months at selected Air Force bases throughout the United States. Each applicant for the Professional Officer Course should attend a summer field training course before his or her junior year. A student who has completed the GMC is assigned to a four-week training unit. Students not completing the GMC must attend five weeks of field training. This requirement must be fulfilled prior to enrollment in the Professional Officer Course; however, this requirement can be deferred.

The major areas of field training include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions, Air Force environment, and physical training.

AFROTC College Scholarship Program

The AFROTC awards scholarships at the freshman, sophomore, junior, senior and graduate levels. These scholarships cover full tuition, laboratory expenses, incidental fees and required textbooks. Cadets on scholarship also receive $300–$500 each month as a nontaxable subsistence allowance during the school year. Apply for this scholarship online at afrotc.com. High-school students applying for scholarships are evaluated on the basis of:

- achievement on the CEEB Scholastic Aptitude Test (SAT) or American College Test (ACT)
- high-school academic record
- high-school record of extracurricular and athletic activities
- recommendation by members of the community and by high-school teachers
- tentative medical eligibility as reported by personal physician

College students who are enrolled in AFROTC (or are considering enrolling in AFROTC) and who meet the eligibility requirements may submit their applications directly to the professor of Air Force studies. The professor of Air Force studies will assemble a selection committee of AFROTC detachment officers who will interview and evaluate each applicant. The information gathered by the committee is forwarded to AFROTC, Maxwell Air Force Base, Alabama. There, the central board reviews all nominees and selects scholarship recipients, who are notified by the professor of Air Force studies. Once awarded a scholarship, a cadet continues on scholarship status until graduation and commissioning, unless he or she falls below the scholarship retention standard. College students are evaluated on the basis of:

- achievement on the Air Force officer qualifying test
- college grade point average
- physical fitness test
- unit commander's evaluation
- medical examination

Degree Credit

All Air Force ROTC courses are fully accredited university classes. Credit for these courses can be applied toward elective credit or a minor in civic engagement and leadership through the College of Arts and Sciences. This minor consists of 19 semester hours, of which at least six hours must be 300- or 400-level courses. In addition, students must take PHL 292 Introduction to Ethics or PHL 221 Honors Introduction to Ethics **and** NEW 237 Cooperation & Conflict or NEW 238 Honors: Coop. & Conflict. Students may apply up to 12 semester hours of Air Force studies courses toward the civic engagement and leadership minor. It is recommended that Air Force ROTC cadets apply credit for AFS 350 Usaf Leadership Studies, AFS 360 Usaf Leadership Studies, AFS 470 National Security Affair and AFS 480 National Security Affair toward this minor and take PHL 292 Introduction to Ethics or PHL 221 Honors Introduction to Ethics **and** NEW 237 Cooperation & Conflict or NEW 238 Honors: Coop. & Conflict. This course of action provides 12 semesters hours of credit toward the minor, meets the 300- or 400-level course requirements, and provides core degree credit for a humanities course. For additional details, please contact Air Force ROTC at (205) 348-5900.

Uniforms and Equipment

Students are furnished uniforms and other necessary items through the AFROTC supply officer. Upon a student's withdrawal, uniforms and all other supplies must be returned to AFROTC within 72 hours. The full deposit will be refunded, minus laundry charges, to students who return all uniforms and equipment. AFROTC texts are furnished to all AFROTC students without charge.

Faculty

Lieutenant Colonel

Terri L. Raines, U.S. Air Force Commander and Professor of Aerospace Studies

Courses

AFS 101. Leadership Laboratory. 1 sem. hr.

AFS 102. Leadership Laboratory. 1 sem. hr.

AFS 110. Foundations Of The Usaf. 1 sem. hr.

AFS 120. Foundations Of The Usaf. 1 sem. hr.

AFS 201. Leadership Laboratory. 1 sem. hr.

AFS 202. Leadership Laboratory. 1 sem. hr.

AFS 230. Evolutn Of Us Air Power. 1 sem. hr.

AFS 240. Evolutn Of Us Air Power. 1 sem. hr.

AFS 301. Leadership Laboratory. 1 sem. hr.

AFS 302. Leadership Laboratory. 1 sem. hr.

AFS 350. Usaf Leadership Studies. 3 sem. hrs.

AFS 360. Usaf Leadership Studies. 3 sem. hrs.

AFS 401. Leadership Laboratory. 1 sem. hr.

AFS 402. Leadership Laboratory. 1 sem. hr.

AFS 470. National Security Affair. 3 sem. hrs.

AFS 480. National Security Affair. 3 sem. hrs.

AFS 491. Leadership Laboratory. 1 sem. hr.

AFS 492. Leadership Laboratory. 1 sem. hr.

Officer Training Corps Studies (Army ROTC)

Army ROTC is a college elective that focuses on leadership and management skills. The ROTC program consists of the Basic Course and the Advanced Course. The Basic Course provides college students the opportunity to learn about and experience the U.S. Army without incurring any military obligation during their freshman and sophomore years. The Advanced Course prepares juniors, seniors and graduate students for commissioning as officers in the active U.S. Army, U.S. Army Reserve or Army National Guard.

Two-Year or Four-Year Program

The program in military science may be completed in either two or four years. The two-year program requires students to have a minimum of 54 semester hours and meet the qualifications to enter the Advanced Course. The qualifications for entering the Advanced Course include completion of one of the following: Leader Training Course, four years of high-school Junior ROTC, or prior military service (veteran) or completion of Basic Training with the National Guard/Reserve. All students entering the Advanced Course receive a monthly tax-free stipend for 10 months of the year ($450 for juniors and $500 for seniors). The four-year program requires students to take Basic Course electives at the University and then enter the Advanced Course.

Basic Course

The Basic Course refers to freshman- and sophomore-level Military Science electives. Students wishing to enter the Basic Course simply register for one or more of the course electives. There is absolutely no military obligation incurred by taking these electives for freshman students or non-scholarship sophomores. The minimum electives necessary for completing the Basic Course follow:

		Hours
MIL 110	Leadership/Natl Security	1
MIL 111	Leadership Application I	1

MIL 120	Foundatn Leadershp Team Develm	1
MIL 121	Leadership Development	1
MIL 210	Basic Leadership Skills	2
MIL 211	Basic Leadership Development	1
MIL 220	Military Leadership Skills	2
MIL 221 or	Mil Leadership Mgt Applicn II	1
MIL 250	Leader Trng Course Basic Camp	
Total Hours		10

Advanced Course

The Advanced Course consists of junior- and senior-level Military Science electives. The course requires students to take the electives in sequence, unless authorized by the professor of military science, and complete the Leader Development and Assessment Course (LDAC). The LDAC is a paid 32-day leadership evaluation course conducted at Fort Lewis, Wash., during the summer between the junior and senior years. The Advanced Course consists of the following core courses:

		Hours
MIL 310	Small Unit Tactical Leadership	3
MIL 311	Small Unit Leader Appl Lab I	1
MIL 320	Advanced Leadership Skills	3
MIL 321	Small Unit Leader Appl Lab II	1
MIL 410	Military Science IV	3
MIL 411	Adv Leadership Applicatn Lab I	1
MIL 420	Military Science IV	3
MIL 421	Adv Leadersh Applicatn Lab II	1
Total Hours		16

Army ROTC Scholarship Program

Army ROTC offers two-, three- and four-year scholarships. The scholarships pay 100 percent resident or nonresident tuition, $1,200 per year for books and a monthly tax-free stipend for 10 months of the year ($300 per month for freshmen, $350 per month for sophomores, $450 per month for juniors and $500 per month for seniors). All enrolled cadets are also eligible to compete for a number of awards provided by alumni endowments, ranging from $200 to $1,000 per year. Army ROTC selects freshman scholars based on high school GPAs, ACT or SAT scores, class standing, extracurricular activities, and scholarship interviews. High school students can apply online for four-year scholarships at goarmy.com/rotc. The deadline for four-year scholarship applications is typically January 1.

Two- and three-year scholarship selections (undergraduates and graduate students) are based on college GPA, Army Physical Fitness Test scores, leadership potential and scholarship interviews. Initial selections for two- and three-year scholarships are made in late April. Applications for campus-based scholarships are accepted year-round at the Military Science Department, 610 Capstone Drive, located adjacent to the Alabama Museum of Natural History. Interested applicants should contact the Army ROTC department at (205) 348-1056 or via bama.ua.edu/~armyrotc.

Army ROTC Stipend

All Army ROTC sophomores, juniors and seniors who meet the eligibility requirements for contracting are eligible for a tax-free stipend for 10 months of the year ($350 per month for sophomores, $450 per month for juniors and $500 per month for seniors). Eligibility requirements include a minimum cumulative GPA of 2.0; passage of the Army Physical Fitness Test; meeting DODMERB physical exam qualifications; and being a U.S. citizen, full-time student and of good moral character.

Degree Credit

All Army ROTC courses are fully accredited University classes. Credit for these courses can be applied toward elective credit or a minor in Civic Engagement and Leadership (CEL) through the College of Arts and Sciences. This minor consists of 19 semester hours, of which at least six hours must be 300- or 400-level courses. In addition, students must take PHL 292 Introduction to Ethics or PHL 221 Honors Introduction to Ethics **and** NEW 237 Cooperation & Conflict or NEW 238 Honors: Coop. & Conflict. Students may apply up to 12 semester hours of military science courses toward the civic engagement and leadership minor. It is recommended that Army ROTC cadets apply credit for MIL 310 Small Unit Tactical Leadership, MIL 320 Advanced Leadership Skills, MIL 410 Military Science IV and MIL 420 Military Science IV toward this minor and take PHL 292 Introduction to Ethics or PHL 221 Honors Introduction to Ethics **and** NEW 237 Cooperation & Conflict or NEW 238 Honors: Coop. & Conflict. This course of action provides 12 semester hours of credit toward the minor, meets the 300- or 400-level course requirements, and provides core degree credit for a humanities course. For additional details, please contact the Military Science Department at (205) 348-1056.

Faculty

Lieutenent Colonel

Ken Kemmerly, U.S. Army Commander and Professor of Military Science

Courses

MIL 101. Beginning Army Fitness. 1 sem. hr.

MIL 102. Beginning Army Fitness Train. 1 sem. hr.

MIL 110. Leadership/Natl Security. 1 sem. hr.

MIL 111. Leadership Application I. 1 sem. hr.

MIL 120. Foundatn Leadershp Team Develm. 1 sem. hr.

MIL 121. Leadership Development. 1 sem. hr.

MIL 201. Int Army Fitness Training. 1 sem. hr.

MIL 202. Intermed Army Fitness Train. 1 sem. hr.

MIL 210. Basic Leadership Skills. 2 sem. hrs.

MIL 211. Basic Leadership Development. 1 sem. hr.

MIL 220. Military Leadership Skills. 2 sem. hrs.

MIL 221. Mil Leadership Mgt Applicn II. 1 sem. hr.

MIL 250. Leader Trng Course Basic Camp. 6 sem. hrs.

MIL 301. Advanced Army Fitness. 1 sem. hr.

MIL 302. Advanced Army Fitness Training. 1 sem. hr.

MIL 310. Small Unit Tactical Leadership. 3 sem. hrs.

MIL 311. Small Unit Leader Appl Lab I. 1 sem. hr.

MIL 320. Advanced Leadership Skills. 3 sem. hrs.

MIL 321. Small Unit Leader Appl Lab II. 1 sem. hr.

MIL 335. American Military Experience. 3 sem. hrs.

MIL 401. Army Fitness Development. 1 sem. hr.

MIL 402. Army Fitness Program Developmt. 1 sem. hr.

MIL 410. Military Science IV. 3 sem. hrs.

MIL 411. Adv Leadership Applicatn Lab I. 1 sem. hr.

MIL 420. Military Science IV. 3 sem. hrs.

MIL 421. Adv Leadersh Applicatn Lab II. 1 sem. hr.

MIL 490. Enhanced Leadership Stdy. 3 sem. hrs.

MIL 492. Design Fitness Program. 1 sem. hr.
Course prepares students to design and implement a rigorous physical fitness program in accordance with U.S. Army standards, focusing on a holistic approach to health and fitness. Offered in fall and spring semesters.
Prerequisite(s): MIL 321 and MIL 311; or MIL 411 and MIL 421.

MIL 493. Risk Management and Safety. 1 sem. hr.
Course prepares students to recognize risk behaviors and situations, plan safe and effective training, and reduce risks both on and off duty with a focus on awareness and prevention. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 494. Academic Mentorship Program. 1 sem. hr.
Course prepares students to design and implement an advising and mentoring program to increase retention of younger peers, focusing on organization and time management. Offerred fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 495. Operations Planning. 1 sem. hr.
Course prepares students to conduct staff estimates, plan training requirements, develop operations orders, and supervise training. Offered fall and spring semesters.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 496. Ethical Foundations. 1 sem. hr.
Prepares students to recognize risk behaviors and situations, plan counseling sessions, make informed referrals to assistance agencies, and improve the quality of life for employees. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 497. Human Resources Internship. 1 sem. hr.
Prepars students to coordinate personnel actions, prepaare military memoranda, manage databases, and perform clerical duties expected of future officers, Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

College of Continuing Studies

The University of Alabama recognizes that its resources can help individuals meet the challenges of their changing lives. Through the College of Continuing Studies, the University extends academic resources throughout Alabama, the Southeast and beyond. The College is committed to delivering educational opportunities through online degree programs, evening and weekend programs, distance programs, the Gadsden Center, professional development courses, and a variety of professional workshops, seminars and institutes.

Division of Academic Outreach

More than ever, students are choosing distance education to pursue their college degrees. The Division of Academic Outreach strives to facilitate distance degree programs to adult learners who are limited by time, geography, work schedules or personal obligations. Students may choose from formats that will fit their schedules and learning styles such as online, interactive video conferencing, evening and weekend classes, or DVD correspondence.

For more information on these programs, write to The University of Alabama, College of Continuing Studies, Division of Academic Outreach, Box 870388, Tuscaloosa, AL 35487-0388; call (205) 348-0089 or toll free 1-800-467-0227; email aoinfo@ccs.ua.edu; or visit BamaByDistance.ua.edu.

Online Courses

Academic Outreach delivers high-school and college courses online where students are instructed through a secured Internet site, interact with their professors and complete lessons. Online courses accommodate the educational needs of individuals who have access to and experience with a computer and the Internet.

Video Courses

Academic Outreach delivers undergraduate and graduate courses via online video streaming to students who cannot attend classes on campus. Lectures are recorded as they occur and streamed via the Internet the same day. Students who do not have high-speed internet access are given the option to receive DVD recordings of the lectures. Students complete the same course requirements as on-campus students and take proctored exams at convenient sites. Video courses are offered in Engineering and Human Environmental Sciences.

External Degree (EXD) Program

The External Degree Program is an interdisciplinary undergraduate distance learning program for adults whose educational needs cannot be met through traditional residential programs. Previously earned academic credits transferred from regionally accredited colleges or earned through national tests such as the College-Level Examination Program (CLEP), independent studies, out-of-class learning contracts, correspondence studies, classroom work and demonstrated prior learning may be applied toward a bachelor of arts (BA) or bachelor of science (BS) degree in interdisciplinary studies.

The EXD program is intended to serve adult students whose opportunities to use currently available educational resources may be limited. Applicants must have high-school diplomas or minimum General Education Development (GED) equivalency scores of 50, be 25 years of age or older, and have educational goals attainable through the program. Applicants need not be Alabama residents. This degree is awarded through the College of Arts and Sciences.

For more information or to obtain a catalog and application, please call 1-800-452-5971 or visit learnon.ua.edu. For specific EXD Program curriculum requirements, please refer to the College of Arts and Sciences New College section of this catalog.

Intercampus Interactive Telecommunication System (IITS)

The Intercampus Interactive Telecommunication System (IITS) is a network of conference rooms connected to a statewide videoconferencing network. Approximately 30 sites throughout Alabama are equipped with cameras, monitors and other devices that allow teachers and students to interact as if they were in the same room. Presenters use traditional visuals, such as PowerPoint presentations, overheads and videotape/DVD, as well as digital options unique to IITS.

Weekend College

Designed to meet the needs of both part-time and full-time students, Weekend College offers a number of courses in the fall, spring and summer semesters on Friday evenings and Saturday mornings and afternoons. Scheduling weekend classes is especially convenient for part-time students who would like to pursue academic studies while working.

Gadsden Education and Research Center

Established in 1946, The University of Alabama's Gadsden Education and Research Center is an off-campus program serving residents of northeast Alabama. The center offers graduate coursework for credit, noncredit programs for professional development and test services, as well as serving as a liaison to the University's main campus.

Currently the center offers more than 25 complete graduate degree or certification programs in education, including master's degree, educational specialists degrees, and class A and class AA certification programs. Graduate-level courses in library studies are also available in Gadsden. For more information, please call (256) 456-2886 or 1-888-223-4131, or visit gadsden.ua.edu.

Evening Program

The Evening Program offers classes at times convenient for working adults. Students unable to continue their education in the traditional format (day classes) may complete degrees in business, geography and criminal justice through this program. Many other courses from the College of Arts and Sciences, the Culverhouse College of Commerce and Business Administration, the College of Communication and Information Sciences, the College of Human Environmental Sciences, and the School of Social Work are offered after 5 p.m. Monday through Thursday.

Independent Study

Through Independent Study, high-school and college students may select their hours of study and work at their own pace to complete courses through written correspondence. These courses provide students the flexibility they need to attain professional, academic and personal goals.

With certain stipulations, the undergraduate courses may be used to complete a maximum of 25 percent of the work leading to the bachelor's degree. Nine of the last 18 hours required for a degree may be taken by written correspondence, provided that all residence requirements have been met.

Adult Student Services

Adult Student Services provides a University-wide point of entry for adult students returning to campus or entering the University for the first time along with the following services as they:

- initiate the admission process
- receive assistance with applying for financial aid and adult student scholarships
- be referred to appropriate offices at the University for additional assistance with individual needs
- receive assistance with academic advising and schedule building

For more information, contact Academic Outreach Student Services at 1-800-467-0227 or (205) 348-0089, or visit BamaByDistance.ua.edu.

Courses

EXD 100. Continuous Enrollment. 0 sem. hrs.

EXD 101. Foundatns Adult Learning. 3 sem. hrs.
Orientation to the EXD Program and introduction to the theories and principles of adult learning, learning styles, college degree planning, college writing, and selected issues relating to adult education. Mandatory for admission to the EXD Program.

EXD 200. Prior Learning Portfolio Devel. 0 sem. hrs.
Prior Learning Portfolio Dev.

EXD 205. Prior Learning Assessment. 0 sem. hrs.
Prior Learning Assessment.

EXD 300. Directed Study. 1-12 sem. hr.
Out-of-class learning contracts designed by students in selected topics. Advisor approval required.

EXD 320. Contract Learning. 1-15 sem. hr.

EXD 330. Contract Learning. 1-15 sem. hr.

EXD 335. Contract Learning. 1-15 sem. hr.

EXD 345. Contract Learning. 1-15 sem. hr.

EXD 350. Contract Learning. 1-15 sem. hr.

EXD 355. Contract Learning. 1-15 sem. hr.

EXD 360. Contract Learning. 1-15 sem. hr.

EXD 395. Seminar. 1-6 sem. hr.
Campus-based seminar on varying topics in natural sciences, humanities, social sciences, or other selected areas.

EXD 498. Senior Project. 1-12 sem. hr.
Student-designed major project or research in approved area. Required of all EXD students before graduation.

Honors College

The University of Alabama Honors College seeks to enhance the undergraduate experience of all Honors students in four key ways through innovative academic experiences, advanced research opportunities, intercultural interactions, and community service and leadership development. One of the highest priorities of the Honors College is to empower students to reach the peak of their potential and to be recognized for those achievements. Honors College students are known for their leadership on campus and in the community, for their innovative thinking and the creation of new programs and initiatives, and for their success in winning awards and scholarships at the University, national and international levels.

The Honors College serves its students through the core Honors experience alongside other specialized programs, including the Computer-Based Honors Program and the University Fellows Experience. The Honors College also works collaboratively with other Colleges to create unique partnerships and departmental honors programs throughout the University. When selecting their major, Honors College students may choose any discipline, adding to the diversity of the Honors experience.

Honors College facilities in Nott Hall include administrative, faculty and student offices; a reception lounge; multiple seminar and conference rooms; an Honors College computer lab; a lounge for the University Fellows; and a suite for the Computer-Based Honors Program which contains a separate computer lab. The Honors College has multiple residence halls that are an important facet of a strong Honors community, providing places that facilitate group study and engagement. The Honors residence halls are coeducational, suite-style facilities and feature several Honors faculty-in-residence members in addition to Honors residential assistants.

Honors College students have access to Honors housing and entering freshmen have the opportunity to attend the first summer orientation sessions. After the first semester, Honors College students are able to register before all non-Honors students. All Honors courses are noted on the official transcript, and completing the Honors College requirements is noted on both the transcript and diploma.

For more information about the Honors College, contact The University of Alabama Honors College, 288 Nott Hall, Box 870169, Tuscaloosa, AL 35487-0169; call (205) 348-5500; or visit honors.ua.edu.

Honors College Experience

The foundation of the Honors College is the Honors experience which provides students with an enhanced academic curriculum and the ability to work with their peers and outstanding faculty members in an enriched academic environment. The Honors experience does not constitute a major or a minor, but most Honors courses fulfill core curriculum requirements which allow students to pursue their degrees within an Honors framework.

All incoming Honors College freshmen are encouraged to engage in Honors Year One, a program that combines academic coursework with opportunities for engagement on campus in the first academic year. Honors Connection, Common Book Experience and Freshmen Exploratory Topic classes provide freshmen a way to transition into college life and develop new relationships with other Honors College students and faculty. Freshmen are also encouraged to become involved in the different divisions of the Honors College Assembly, the Honors College student organization.

Honors College students normally take one or two Honors courses per semester rather than a full schedule of them. The evaluation of work done in Honors courses neither penalizes nor unduly rewards students for undertaking the Honors curriculum. Most Honors College students perform better in Honors classes because they find them engaging and challenging. Honors credit can be earned in a variety of ways, including University Honors courses, departmental honors courses, graduate-level courses, Honors by Contract, Independent Study and an Honors Thesis.

Honors Requirements

Admission Requirements

Entering freshmen with a composite ACT score of at least 28 or SAT score of at least 1250 (verbal and quantitative) and at least a 3.3 high-school GPA are invited to apply to the Honors College. Upon receipt of their Honors College freshmen applications, all National Merit Finalists and National Achievement Finalists are admitted automatically. Current UA students not admitted as entering freshmen are invited to apply after they have earned an overall GPA of at least 3.3 and completed 12 or more hours at The University of Alabama. Transfer students with 12 or more hours and at least a 3.3 overall GPA in their transferred coursework are also invited to apply. All students who apply with 60 or more hours are required to draft a plan to finish all Honors coursework prior to admission.

Graduation Requirements

To complete the requirements of the Honors College, all students are required to earn at least 18 hours of Honors credit, including at least six hours in graded University Honors (UH) courses at the 100-, 200- or 300-level, and maintain an overall GPA of at least 3.3. Students must apply for graduation with the Honors College in addition to their official UA graduation applications in order to have Honors designations displayed on the transcript and diploma.

Retention Requirements

Overall GPA and course completion are monitored each semester. If an Honors College student drops below a 3.3 overall GPA and/or does not complete Honors coursework at a proportional rate to overall degree completion relative to time of admission, they will be put on probation. Honors College students who do not raise their overall GPA or increase their rate of completing Honors coursework in their probation semester will be temporarily suspended pending an overall GPA of 3.3 or a documented plan to finish Honors coursework. Retention requirements are subject to change, and exceptions to the requirements for special circumstances exist.

For more information and up-to-date requirements, visit honors.ua.edu.

Honors Credit

University Honors (UH) courses are the core of the Honors experience and often can be used to satisfy general education requirements. Most UH classes are limited in enrollment to a maximum of 15 students and very few have prerequisites. Professors in UH courses stress the development of critical, analytical and interpretive skills.

Departmental honors courses seat only Honors students and have limited enrollments in order to maximize interaction between students and faculty. Various departments offer these classes and regularly assign their best teachers to Honors sections, seeking to encourage Honors students to major or minor in their disciplines. All graduate level courses (500 and above) offered by departments count as Honors credit as well.

The Honors by Contract option allows Honors College students to make certain departmental courses at the 300- or 400-level count for Honors credit. In order to earn Honors credit, the student must collaborate with a supervisor to create an additional assignment or learning element that raises the course to Honors level work. Students must earn at least a B grade on the extra assignment and can apply no more than six hours of Honors by Contract courses towards the Honors College requirements.

Independent Study allows students to pursue self-directed study in a subject area chosen by the student in consultation with a qualified supervisor. Self-directed studies often lead to conference presentations, publications and other experiences unique to the student's interests. Students can apply no more than six hours of Independent Study towards the Honors College requirements.

The Honors Thesis option allows students to undertake thesis research and writing for class credit and can be completed through the Honors College or a departmental honors program.

Honors Course List

100 Level

UH 101	Survey: Values & Society	3
UH 103	Honors: Alabama Action	1
UH 104	Honors: Outdoor Action	1
UH 105	Honors Mentoring	3
UH 106	The Idea of a University	3
UH 120	Honors Explorations	1,2
UH 155	Freshman Seminar	3
IHP 105	Culture & Human Experience	3
IHP 155	Culture and the Human Experience	3

200 Level

UH 201	Classics & Western Culture	3
UH 202	Survey: Class East Cult	3
UH 203	Classics & Western Culture II	3
UH 204	Classics & African Culture	3
UH 210	Honors Fine Arts	3

300 Level

UH 300	Honors Spec Topics Sem	3
UH 330	Intro Clinical Medicine	3
UH 331	Save First: Poverty in America	1-3
UH 333	Evry Move Cnts ChessED Project	1-3
UH 334	Documenting Justice I	3
UH 335	Documenting Justice II	3
UH 350	Black Belt Experience	1-3

400 Level

UH 400	Honors Independent Study	1-6
UH 498	Honors Thesis Research	3
UH 499	Honors Thesis	3

Faculty

Dean

Dr. Shane Sharpe

Associate Dean

Dr. Jacqueline Morgan

Associate Professor

Dr. Fran Oneal

Assistant Professor

Chip Cooper

Dr. Bradley Tuggle

Instructors

Billy Field

Betty Florey

Dr. Thomas Herwig

Allen Jones

Adjunct Faculty

Dr. Chelley Alexander

Amber Barnes

Stephen Black

Jan Brakefield

Dr. Karen Burgess

Connie Coleman

Dr. Dan Daly

Patricia Emens

Judith Halli

Dr. Tim Hebson

Vicki Holt

Francine James

Robert McCurley

John Watkins

Victoria Whitfield

Dr. Mark Woods

Admissions

Allison Verhine

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Student Services

Jim Bailey

Kiki Karatheodoris

Communication

Tonya Nelson

External Relations

Kathryn Merritt

Administrative

Susan Haynes

Jane Batson

Amanda McRae

Lauren Sprinkle

Founding Dean Emeritus

Dr. Robert Halli

Computer-Based Honors Program (CBH) Courses

CBH 101. Computer Based Honors. 4 sem. hrs.
Taken by first-year students in the Computer-Based Honors Program, this course provides an accelerated introduction to computer hardware and software. Open only to students admitted to the Computer-Based Honors Program,.

CBH 102. Computer Based Honors. 4 sem. hrs.
Taken by first-year students in the Computer-Based Honors Program, this course provides an accelerated introduction to computer hardware and software. Open only to students admitted to the Computer-Based Honors Program,.

CBH 201. Computer Based Honors. 3 sem. hrs.
In the sophomore, junior, and senior CBH seminars, students work as undergraduate research assistants with faculty members on computer-oriented research projects. Computing proficiency is required for a passing grade in this course.

CBH 202. Computer Based Honors. 3 sem. hrs.
In the sophomore, junior, and senior CBH seminars, students work as undergraduate research assistants with faculty members on computer-oriented research projects.

CBH 301. Computer Based Honors. 3 sem. hrs.
Junior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

CBH 302. Computer Based Honors. 3 sem. hrs.
Junior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

CBH 425. Comp Based Honors Proj. 1-6 sem. hr.

CBH 451. Computer Based Honors. 3 sem. hrs.
Senior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

CBH 452. Computer Based Honors. 3 sem. hrs.
Senior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

International Honors Program (IHP) Courses

IHP 105. Culture & Human Experience. 3 sem. hrs.
This course develops students' cross-cultural communication skills and the ability to analyze world issues from a variety of cultural perspectives.

IHP 155. Culture and the Human Experience. 3 sem. hrs.
This course develops students' cross-cultural communication skills and the ability to analyze world issues from a variety of cultural perspectives. Freshman Seminar. Equivalent to IHP 105.

IHP 400. Independent Study. 1-6 sem. hr.
Independent study in a subject area chosen in consultation with a qualified faculty member who will supervise the project. A proposal outlining the project must be approved in advance.

University Honors Program (UH) Courses

UH 101. Survey: Values & Society. 3 sem. hrs.
These courses provide an opportunity for students to engage in conversation and experiences relating to the interaction of society and values. The majority of these course require a service-learning component. Satisfies HU core curriculum designation.

UH 103. Honors: Alabama Action. 1 sem. hr.
This course is a service-learning experience for incoming Honors freshmen that responds to the needs of the community by providing hands-on projects and issue-relevant education.

UH 104. Honors: Outdoor Action. 1 sem. hr.
This course is a week-long outdoor service learning class for incoming Honors freshmen who are interested in environmental issues.

UH 105. Honors Mentoring. 3 sem. hrs.
Honors Mentoring provides the dedicated student with the intellectual opportunity to acquire the content knowledge and refine interpersonal skills necessary to effectively mentor at-risk elementary school students. It challenges students to look beyond their own perspectives, assumptions and experiences and embrace the interconnectedness of our society.

UH 106. The Idea of a University. 3 sem. hrs.
This three-week study-abroad course takes "the idea of a University" as its theme. Designed as a propaedeutic to college life, students will examine definitions of education and the university, contrasts and conflicts for students and scholars within academic life, and the "life of the mind" conceptualization of higher education as preparation for lifelong learning. These themes will be explored through detailed readings and class discussions of three Shakespearean plays and substantial supplementary readings from a course packet of educational theorists, poets, and fiction writers. Moreover, because the course takes place in Oxford, England, it includes a strong component of comparing and contrasting our readings and class discussions with life in Oxford, both current and historical. Student assessment will be based on class participation, a journal, two essays, and a final examination. The only prerequisite for this course is admission to the Honors Passport Oxford program.
Prerequisite(s): Admission to Honors Passport Oxford program.

UH 120. Honors Explorations. 1 or 2 sem. hr.
These courses provide an opportunity for students to explore diverse topics within the honors framework. Pass/Fail sections do not count towards the 6 hour UH requirement.

UH 155. Freshman Seminar. 3 sem. hrs.
These courses provide an opportunity for freshmen to engage in discussion and exploration of various topics that change each semester. Satisfies HU core curriculum designation.

UH 201. Classics & Western Culture. 3 sem. hrs.
This course introduces students to the western literary canon from the ancient to the medieval period. Writers to be studied include Homer, Sophocles, Virgil, and Dante. Satisfies HU core curriculum designation.

UH 202. Survey: Class East Cult. 3 sem. hrs.
This course introduces students to some of the classic works of the Asian civilizations of India, China, and Japan. Readings may include the Vedas, the Bhagavad Gita, Analects of Confucius, Lao Tzu's Tao Te Ching, Shikibu's Tale of Gengi, and Gandhi's autobiography. Satisfies HU core curriculum designation.

UH 203. Classics & Western Culture II. 3 sem. hrs.
This course introduces students to the classic works of western culture in the early modern and modern periods. Readings may include works by Machiavelli, Voltaire, Wollstonecraft, Marx, Darwin, Freud, and DuBois. Satisfies HU core curriculum designation.

UH 204. Classics & African Culture. 3 sem. hrs.
Examines the impact of the classics on African culture, focusing on reading and writing about the concept of identity in African civilizations and cultures. Students will become familiar with classic works that represent current themes in African culture and societies such as oral tradition, use of language, community, post-colonial influence, and gender roles.

UH 210. Honors Fine Arts. 3 sem. hrs.
An interdisciplinary approach to the fine arts; content focus and structure vary with instructor. Satisfies FA core curriculum designation.

UH 300. Honors Spec Topics Sem. 3 sem. hrs.
These courses provide an opportunity for Honors College students to engage in discussion and exploration of various topics that change each semester. Satisfies W core curriculum designation.

UH 330. Intro Clinical Medicine. 3 sem. hrs.
This course is designed to acquaint students with the major patterns of illness in the U.S. and with the medical disciplines that treat those diseases. 10 seats available.

UH 331. Save First: Poverty in America. 1-3 sem. hr.
This course introduces students to the concepts of justice and obligation in various faith traditions, fosters discussion on issues faced by the working poor, perceptions and misperceptions of those living in poverty, and current policies affecting lower-income families and individuals. In addition to classroom discussions, students complete tax training and serve as SaveFirst volunteer tax preparers. Students also participate in the FocusFirst Initiative, which trains students to conduct high-tech vision screenings for children in economically disadvantaged communities. Offered in partnership with the Center for Ethics and Social Responsibility. Satisfies HU core curriculum designation.

UH 332. Bridge Builders of Alabama. 1-3 sem. hr.

UH 333. Evry Move Cnts ChessED Project. 1-3 sem. hr.

UH 334. Documenting Justice I. 3 sem. hrs.
This course explores ethnographic documentary filmmaking and critical journalism and helps students learn both technical (e.g., production and editing) and journalistic skills. Offered in partnership with the Center for Ethics and Social Responsibility. Satisfies HU core curriculum designation.

UH 335. Documenting Justice II. 3 sem. hrs.
This course explores ethnographic documentary filmmaking and critical journalism and helps students learn both technical (e.g., production and editing) and journalistic skills. Offered in partnership with the Center for Ethics and Social Responsibility. Satisfies HU core curriculum designation.

UH 350. Black Belt Experience. 1-3 sem. hr.

UH 400. Honors Independent Study. 1-6 sem. hr.
Students work on an independent project with a faculty supervisor.

UH 405. Leadership Experience. 1-6 sem. hr.
Leadership Experience integrates diverse practical experiences with leadership concepts so that students can serve as informed, proactive leaders in various Honors College initiatives. The course utilizes a combination of small group discussions on leadership theory with opportunities for Honors College students to demonstrate their personal leadership styles.
Prerequisite(s): None.

UH 498. Honors Thesis Research. 1-3 sem. hr.
Research on a topic chosen by the student in consultation with a qualified faculty supervisor pertaining to an honors thesis. A proposal outlining the thesis project must be approved prior to registration.

UH 499. Honors Thesis. 3 sem. hrs.
Research on a topic chosen by the student in consultation with a qualified faculty supervisor culminating in an honors thesis. A proposal outlining the thesis project must be approved prior to registration.

Computer-Based Honors Program

The Computer-Based Honors Program (CBHP) is designed to provide exceptional, highly motivated students from any college, major, and field of study the opportunity to conduct scholarly research with top faculty members.

Students are accepted in the program at the beginning of their freshman year and learn to use computers by taking CBH Freshmen Seminars. These 4-hour courses are designed to immerse students into the fundamentals of computing and project management. During their second, third, and fourth years at the University, students select research projects and serve as research assistants to faculty project sponsors by applying their computer skills to research projects. They receive 3 hours of credit each semester for this research work and meet once a week to discuss research methods and issues, report on projects, and present details of their project to diverse audiences. The Computer-Based Honors Program constitutes an academic minor for those students completing its requirements and the classes count toward the 18 total hours needed to complete the requirements of the Honors College.

A number of full or partial tuition fellowships are available to selected students in the program who are chosen during their senior year in high school.

Admission and Graduation Requirements

All Honors College–eligible incoming freshmen are invited to apply to the Computer-Based Honors Program.

To complete the requirements of the Computer-Based Honors Program, students must complete both CBH 101 Computer Based Honors and CBH 102 Computer Based Honors, four 3-credit-hour research projects that combine research with computer applications, and maintain an overall GPA of 3.3.

For more information, contact The University of Alabama Honors College, Computer-Based Honors Program, Box 870169, Tuscaloosa, AL 35487-0169; (205) 348-5500; honors.ua.edu.

Computer-Based Honors Program Course List

Freshman Seminar

CBH 101	Computer Based Honors	4
CBH 102	Computer Based Honors	4

Sophomore Seminar

CBH 201	Computer Based Honors	3
CBH 202	Computer Based Honors	3

Junior Seminar

CBH 301	Computer Based Honors	3
CBH 302	Computer Based Honors	3

Senior Seminar

CBH 451	Computer Based Honors	3
CBH 452	Computer Based Honors	3

Faculty

Director

Dr. Shane Sharpe

Program Manager

Jane Batson

Instructor

Darren Evans-Young

Departmental Honors Programs

Departmental Honors

The Honors College works in conjunction with a host of academic departments on campus to provide discipline-specific departmental honors programs. These programs allow Honors College students to pursue their major course of study within an Honors framework. Each department has separate requirements for their programs, and the requirements are subject to change at the will of the department. Honors College students must be accepted into the respective programs independently from the Honors College. All non-Honors students who wish to participate in a departmental honors program must be granted an exception by the individual department.

Biological Sciences

Students majoring in one of the biological sciences are eligible for consideration for the honors program in biological sciences after they have completed at least 16 hours in biological sciences with a minimum grade point average of 3.4 in biological sciences and a cumulative grade point average of 3.4. Acceptance into the program requires approval of the Honors Program Committee and acceptance of the student by primary advisers and co-advisers. Additional details are available in the office of the Department of Biological Sciences. Requirements for the program include:

- 4-8 hours of BSC 390 Honors Thesis Research
- an acceptable honors thesis
- attendance in BSC 407 Honors Seminar In Bsc
- taking the advanced portion of the Graduate Record Examination
- maintenance of a 3.4 GPA in biological sciences courses and a 3.4 cumulative GPA

Business Honors Program

Business Honors Program students in the Culverhouse College of Commerce participate in weekly one-hour seminars conducted by the Business Honors director and core faculty. The sessions feature meetings with outstanding faculty and business leaders and discussions of contemporary business and economic issues.

Those students who complete the two-year program will earn Honors credit for selected business classes and will graduate with Business Honors recognition. Participation is limited to Culverhouse College of Commerce students who have completed 61 or more semester hours of classwork and have at least a 3.5 cumulative GPA.

Chemical and Biological Engineering

The University of Alabama Chemical and Biological Engineering Honors Program offers exceptional students a challenging environment and exposes them to real-world problems and solutions. Chemical and biological engineering honors students gain valuable tools to launch diverse careers in chemical process engineering, product design, biomedical research, microelectronics, technical management, law and medicine.

Students must be enrolled in chemical and biological engineering and apply to the Chemical and Biological Engineering Honors Program. Students must maintain a minimum GPA of 3.3 to remain in the program. See the Department of Chemical and Biological Engineering for eligibility requirements and guidelines.

Chemistry

Students are invited to apply for admission into the Chemistry Honors Program on the basis of performance in introductory chemistry courses. Inquire at the Department of Chemistry office for further details. Requirements for the program include:

- completion of course requirements for the BS degree with a major in chemistry
- maintenance of at least a 3.3 GPA in chemistry courses, with no more than one C, and a cumulative 3.0 GPA for all coursework
- participation in CH 491 Honors Research Sem, CH 492 Honors Research Sem and CH 494 Honors Research Sem
- submission of an acceptable senior thesis based on research conducted under supervision of a chemistry department faculty member
- submission of scores on the Graduate Record Examination or other appropriate examination prior to graduation

Civil, Construction and Environmental Engineering

The Department of Civil, Construction and Environmental Engineering offers an undergraduate honors program for students who seek to be challenged by both independent and team projects and receive additional distinction with their undergraduate degrees. This individually tailored program culminates with awarding of a Civil Engineering Honors Certificate and recognition at the Honors Day Ceremony in the student's senior year. See the Department of Civil, Construction and Environmental Engineering for program requirements.

English

Any English major with a superior aptitude for and a special interest in English may apply for admission to the honors program in English. The program includes special honors sections of sophomore literature courses, eligibility for the Junior Honors Seminar in English and an Honors Thesis. The Honors Seminar in English (EN 399 Honors Seminar in English) gives students an opportunity to experience a course which cuts across conventional divisions of literary period and literary form. The Honors Thesis (EN 499 Honors Thesis) affords students the opportunity to work with faculty mentors who will guide them in readings, research and selection of a suitable topic for the thesis. Interested students should contact the coordinators of the Departmental English Honors Program.

Geological Sciences

Geology majors are invited to apply for admission to the Geological Sciences Honors Program after completion of 13 hours of geology coursework. Requirements for the program include:

- completion of the course requirements for the BS or BS in geology degree
- maintenance of a minimum 3.3 GPA in geology courses and a 3.0 GPA or higher for all coursework
- grade of "pass" in GEO 435 Honors Sem In Geology and GEO 436 Honors Sem In Geology
- six hours of GEO 499 Research In Geology and presentation of the results in the honors seminar
- submission of an acceptable honors thesis based on research conducted under the supervision of a geological sciences department faculty member

History

The History Honors Program is open to history majors who have a cumulative GPA of at least 3.0, a 3.0 GPA or above in history, and at least 12 hours of completed history courses. The program requires 9 hours of honors work, including HY 399 History Honors Colloquium (usually taken in the junior year) and a 6-hour thesis (HY 498 Honors Thesis I and HY 499 Honors Thesis II) to be completed under the direction of a tenured or tenure-track member of the department. In order to graduate with honors in history, students must have a cumulative GPA of at least 3.0, a 3.3

GPA or above in history, and satisfactory complete a thesis judged to merit an honors designation.

Philosophy

The honors program in philosophy is designed for the exceptional student, regardless of whether the student intends to do graduate work in philosophy. The program offers the opportunity to pursue a philosophical topic further than the seminar format permits. It also provides recognition for having done a greater proportion of one's classes at the advanced level and for having sustained outstanding achievement in all cases. Students wishing to enroll in the program may request consideration for admission from the undergraduate adviser or the department chairman, or they may be invited to enroll.

Those who graduate with honors in philosophy must meet the following requirements:

- complete 36 hours in philosophy
- complete at least 18 of those hours at the 300- or 400-level
- achieve a GPA of at least 3.5 in all courses in philosophy and at least 3.3 cumulative GPA
- write and be examined on a substantial philosophical essay under the direction of a faculty member in the department

Physics

Students are invited to apply for admission to the honors program in physics on the basis of performance in introductory courses. Inquire at the Department of Physics and Astronomy office for further information. Requirements for the program include:

- completion of the course requirements for the BS degree with a major in physics
- maintenance of a minimum 3.3 GPA in physics courses and a minimum 3.0 GPA for all coursework
- submission of an acceptable honors thesis based on research conducted under the supervision of a faculty member in physics or astronomy
- participation in the 1-hour senior-level honors physics seminar, PH 490 Honors Seminar In Physics

Psychology

The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities that prepare them for graduate training in psychology. The two-year program is research-oriented and involves interaction with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent upon submission of an independently conducted research project equivalent in quality to a master's thesis.

Psychology majors who are in the second semester of their sophomore year with 9 hours of completed coursework in psychology (including PY 101 Intro To Psychology, PY 211 Elem Statistical Methods and a 300-level course) may apply for admission to the psychology department honors program. A completed application and interview by the departmental honors committee are required before acceptance. To be accepted a student must have at least a 3.3 GPA in psychology coursework and a 3.0 cumulative GPA or higher. However, meeting these minimum requirements does not guarantee admission.

Unique Partnerships

The Honors College partners with departments across the institution to provide enhanced experiences for Honors College students. These unique partnerships afford Honors College students the ability to engage in programs and initiatives that maximize their potential while earning Honors credit. Students may apply for these programs after being accepted into the Honors College and must remain in good standing to take advantage of the opportunities.

Education Minor

Reflecting The University of Alabama's mission of advancing the intellectual and social condition of the people of the State through quality programs, the minor in educational studies is designed as an opportunity for Honors College students to develop a knowledge base about education and schooling, to design strategies to improve the conditions of education, and to positively impact the educational system. An overarching goal is to enhance our students' capacity to be informed citizens who are educational advocates working as leaders in their chosen careers. The minor is offered jointly between the College of Education and the Honors College as a program for Honors College students to engage in critical thought and action about education in the 21st century in terms of:

- fundamentals/foundational knowledge about education and K-12 schooling
- diversity, advocacy, service, and involvement in schools and communities
- accountability, policy, and broader economic, political, social, cultural and philosophical contexts

The minor in educational studies is a non-certification/licensure program designed specifically for Honors College students who are interested in educational issues but who are not education majors.

- The minor consists of 18 hours.
- Students will enroll in courses by permission only.
- Enrollment in each course will be limited to 20.
- Students must maintain a 3.3 GPA in all coursework.

STEM MBA Path

Following the basic principles of the existing Manderson MBA degree, the STEM Path to the MBA focuses on attracting high-quality undergraduate students majoring in science, technology, engineering and math disciplines. The program offers an innovative approach to engage students early on as undergraduates and leverage non-traditional instruction delivery methods to allow top students to complete the MBA in one additional calendar year. The primary purpose of the path is to provide high-achieving students with the business knowledge needed to successfully manage STEM businesses.

The STEM Path targets high-quality, incoming freshmen who have chosen to major in STEM disciplines at UA. Applicants who hold a minimum high-school GPA of 3.3 and a minimum ACT score of 28 will be offered early admission to the MBA program. During the junior year, students will apply for admission to the Graduate School for the MBA program.

Students are admitted conditionally (at the end of the junior year) into the graduate MBA program if they achieve a 3.3 overall undergraduate GPA, complete the undergraduate degree in a STEM discipline, and achieve a score of 650 or better on the GMAT or GRE (1300) prior to completion of their undergraduate degree. To be finally admitted for graduate study, students must be accepted into the MBA program and reach UA requirements of a 3.3 undergraduate GPA and a GMAT score of 650 or GRE score of 1300.

During each semester of their four years of undergraduate study, students enroll in a 1.5-credit hour STEM Business Honors course. These honors courses focus on communication and leadership skills, and provide students with the opportunity to work in teams on community projects with a goal of developing an appreciation and basic understanding of the importance of management skills in science and technology careers as well as creating an opportunity to network with other students, managers and executives from technology companies, and MBA faculty.

During the summer following the completion of 91 hours, and upon admission into the Graduate School, students complete 9 hours of online business courses. Upon completion of the undergraduate degree, these 9 hours of credit count toward the MBA degree. In addition, the 3 credit hours of STEM Business Honors coursework achieved during the last year of undergraduate study also count toward the MBA degree for a total of 12 hours of credit counting toward the graduate degree.

University Fellows Experience

Overview

Following the classical purpose of education — the production of good citizens — the University Fellows Experience (UFE) strives to prepare the most able and dedicated students at The University of Alabama for remarkable lives of leadership in and service to their community, state, nation and world. Throughout their lives, the University Fellows will make a difference for the good, again and again.
Chief components of the UFE include:

- mentoring by top University of Alabama faculty members
- a team-built atmosphere of support and stimulation
- interaction with cutting-edge experts in all fields
- engagement in important cultural, social and scientific enterprises
- service to the community
- a professional internship in the area of each student's interest
- assistance in applying and competing for prestigious scholarships, graduate and professional schools, and career positions
- scholarship support

Stages of the University Fellows Experience

Throughout the freshman year, Fellows are encouraged and challenged to develop their interests and passions through on-campus and community involvement. Freshman Fellows develop their own skills, gifts and passions while exploring what leadership means in a variety of contexts.

Throughout the sophomore year, Fellows find passions realized, leadership skills honed and service theories turned to practices. Sophomore Fellows expand their

interests in their academic field, on campus and in the community through purposeful involvement.

Throughout the junior year, Fellows focus their passions and involvement on and off campus while exploring career options and post-undergraduate opportunities in the manner best fit for each individual. Junior Fellows explore current developments in their field while acting as leaders and mentors to their younger Fellow cohorts and peers.

Throughout the senior year, Fellows continue to distinguish themselves in their fields of study, receive guidance in finalizing their post-undergraduate plans, and give back to the UFE community in unique teaching and leadership positions.

Admission Requirements

Acceptance into the UFE is extremely competitive. A student with a composite ACT score of at least 32 or a SAT score of at least 1400 (verbal and quantitative) and a high-school GPA of at least 3.8 who is accepted into UA by the scholarship deadline of December 1 will be invited to apply for the UFE. A student eligible for the Honors College (minimum 28 ACT/1250 SAT and 3.3 high-school GPA) may be nominated for the University Fellows Experience by a high-school counselor or a UA faculty or staff member. The UFE selection committee will consider a candidate's records of academic, extracurricular, service and leadership achievements more heavily than grades and test scores.

Contact

For more information, contact The University of Alabama Honors College, University Fellows Experience, Box 870169, Tuscaloosa, AL 35487-0169; (205) 348-5500; honors.ua.edu.

Faculty

Director

Dr. Jacqueline Morgan

Coordinator

Stephanie Brewer

Special Academic Programs

The following programs offer undergraduate students opportunities for new academic experiences, hands-on or on-the-job training, and cultural exchange. All University of Alabama students are encouraged to participate in these programs as appropriate to their degree programs and personal and professional goals. Such programs offer unique ways for UA students to enrich their college experiences, build their resumes and explore career choices.

Center for Ethics and Social Responsibility

Stephen F. Black, Director
Office: Temple Tutwiler Hall
Believing The University of Alabama has a critical role to play in preparing students to serve as effective, engaged and ethical citizens, the Center for Ethics and Social Responsibility (CESR) seeks to assist students in developing a distinct definition of moral and civic maturity, making the values and skills of citizenship a hallmark of a UA education.

The University of Alabama's strong commitment to civic engagement and UA's history of community-university partnerships serve as a foundation for the center. Faculty and students in a wide range of departments at UA have earned distinction for their scholarly contributions to the study of ethics and civic engagement. CESR builds upon these substantial resources, with the larger goal of linking curriculum and the campus culture by establishing multiple opportunities through which students can engage in meaningful service for academic credit while giving thoughtful consideration to their ethical obligations toward fellow citizens.

In particular, CESR staff assists faculty members in developing service-learning courses that engage community organizations in partnerships designed to both enhance academic learning and apply scholarly knowledge to salient community issues. Service experiences are integrated into students' academic curricula, providing structured time for students to think, talk and write about what they did and saw during the activities.

In seeking to better connect social responsibility and ethical development to the academic mission of the University, the work of CESR also entails the development of academic programs such as Moral Forum (a university-wide debate competition that is an integral part of the University Honors Program) and a minor in civic engagement and leadership (co-sponsored by New College, the Department of Philosophy, the ROTC program and CESR) as well as courses such as Documenting Justice (a year-long, justice-based documentary film-making class) and SaveFirst: Poverty in America (a service-learning course that combines academic discussions on perceptions of poverty with volunteer tax preparation services for low-income families). CESR also is concerned with developing and supporting non-curricular activities that incorporate ethical and social discourse into campus life.

The Center for Ethics and Social Responsibility began in fall 2005 as a result of a gift from Mignon C. Smith. Concerned about what she perceived to be an increasing lack of ethics in business and public affairs, Ms. Smith sought to establish a university-based ethics program that would support the study of ethics and develop projects to nurture social responsibility and reflective, thoughtful citizenship. Under the leadership the president and provost and along with the help of an interdisciplinary group of UA faculty, this vision became the Center for Ethics and Social Responsibility.

To learn more about CESR, contact cesr@ua.edu; call (205) 348-6490; visit cesr.ua.edu; or come into our office at Temple Tutwiler Hall on Colonial Drive, next to Reese Phifer Hall.

Cooperative Education Program

Roy T. Gregg, Director
Office: 317 Houser Hall
In order to promote, encourage and improve the education of students and to provide maximum service to industry, business and government agencies, The University of Alabama offers qualified students opportunities to participate in the Cooperative Education Program (or co-op). Cooperative education is an academic program in which students alternate periods of full-time study with periods of full-time employment. This program offers work related to the academic major or career interests of each student, greatly enhancing the student's employment prospects after graduation. It also gives the student a better understanding of the value of human relations, encourages the student to excel academically and assists the student financially.

A student planning to enter the Cooperative Education Program should give particular attention to the entrance requirements of the University division he or she plans to enter. Generally, courses scheduled for the first year must be completed before a student may begin the first work period.

The University assumes primary responsibility for placing qualified students in available positions for the purpose of providing the best education possible. It is impossible, however, for the University to guarantee employment for all students in the Cooperative Education Program. Co-op students are currently working with a diverse group of employers at sites across the United States. Applicants are often matched with their co-op employers during Co-op Interview Days, held each October and February.

Further information about the program may be obtained by contacting The University of Alabama, Director of the Cooperative Education Program, Box 870200, Tuscaloosa, AL 35487-0200; calling (205) 348-6422; or visiting coop.eng.ua.edu.

National Student Exchange

The National Student Exchange (NSE) offers opportunities for students to broaden their educational experience through exchange programs with nearly 200 universities across the United States, Canada, Guam, Puerto Rico and the U.S. Virgin Islands.

Through NSE, students may exchange to another member institution for a semester or academic year and pay that university's in-state tuition. Students coordinate with their college registrar on course selection and credit transferability. Students should discuss their choice of courses with their adviser. Students must at least have sophomore standing and a 2.5 GPA or higher at the time of the exchange. Students receiving federally funded financial aid at UA can expect to receive similar aid from the host institution. With nearly 200 participating institutions and a 97 percent placement rate, students can generally find a location to meet both academic and personal objectives. However, a student's first choice of a host school is not guaranteed.

For further information, visit nse.ua.edu, call our NSE coordinator at (205) 348-6114, or come by the Office of Student Involvement and Leadership at 355 Ferguson Center. The deadline for applications for each academic year (beginning with the fall semester) is February 1.

University Scholars Program

The University Scholars Program is intended for gifted and highly-motivated candidates for BA and BS degrees at The University of Alabama whose objectives include degrees at the master's or doctoral level. In participating University Scholars departments, with a closely integrated undergraduate and graduate program, qualified students begin graduate study in their senior year; such a program may lead to simultaneous completion of requirements for both master's and bachelor's degrees, each within its specified framework.

Students in the University Scholars Program are classified as undergraduates until they complete requirements for their undergraduate degrees and therefore may not hold graduate assistantships until their classifications are changed to graduate status. At that time, University Scholars will also become eligible for graduate fellowships and scholarships.

Any department that offers a graduate program may, with the approval of the dean of the Graduate School, participate in the University Scholars Program. The following programs are currently approved to participate in the University Scholars Program:

- Aerospace Engineering and Mechanics
- Applied Statistics
- Finance
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil and Environmental Engineering
- Communication Studies
- Computer Science
- Consumer Sciences
- Criminal Justice
- Economics (College of Commerce and Business Administration)
- Economics (College of Arts and Sciences)
- English
- Electrical and Computer Engineering
- Finance
- French
- Geography
- German
- Health Studies (Sports Medicine Concentration)
- Human Nutrition and Hospitality Management (Food and Nutrition Concentration)

- Mathematics
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Operations Management
- Physics and Astronomy

The following are minimum requirements; divisions or departments may set higher standards.

Phase I

Admission to Phase I is by invitation of the department and the dean of the Graduate School. Admission is chiefly determined by the faculty's estimate of a student's talents, motivation and potential for graduate study. Students may also apply for admission to Phase I through their major department during the second semester of the sophomore year. Contingent upon completion of 61 semester hours of study and with a grade point average in all courses taken of not less than 3.3 (as computed without the plus/minus system), students are admitted to Phase I at the beginning of their junior year on recommendation of the departments to which they have applied. During the junior year, students will take between four and six courses in their major field, as advised by their departments, to prepare them for the work of Phase II. Students seeking admission to Phase I will be informed by their departments if their admission requirements differ from those specified here.

Phase II

Admission to graduate study is also by invitation and is facilitated by, but not dependent upon, participation in Phase I. On completion of no fewer than 91 hours (ordinarily at the end of the junior year), students may apply for and be accepted for admission to the Graduate School. They must have grade point averages of 3.3 or higher (as computed without the plus/minus system) in all courses. Transfer students are subject to the published residence regulations and must have completed the last 30 hours in residence. Admission to the Graduate School will be granted if the student has:

- met all the criteria above as well as other minimum requirements for graduate admission
- completed three-fourths of the hours required for the major and the minor
- met all requirements for the core curriculum
- been recommended by the department to which he or she is seeking admission (in special circumstances, departments may elect to invite an application and recommend acceptance of an applicant with a GPA of 3.0 or higher)

Upon admission to the Graduate School, the student will begin a program of study leading to the master's or doctoral degree as approved by his or her department and by the dean of the Graduate School. The program of study for prospective University Scholars must be submitted to the Graduate School prior to the student's enrollment in graduate classes.

The bachelor's degree will normally be awarded at the commencement immediately following satisfactory completion of the first year of graduate study and attainment of a total of 128 semester hours of credit or the minimum required by the college. Those courses taken in the senior year/first year of graduate study may count toward both the bachelor's and graduate degrees. No more than 15 hours may be dual-counted toward both the bachelor's and graduate degrees. Interested students should check with their departments for specific coursework requirements. Participants in the University Scholars Program are exempt from the degree limit of 36 hours in a single department. The master's or doctoral degree will be awarded upon satisfactory completion of the requirements for these degrees. In some cases, the bachelor's and master's degrees may be awarded simultaneously. However, the completion of the master's degree may require an additional time period.

Capstone International Center

Dr. Teresa E. Wise
Associate Provost for International Education and Global Outreach
Office: 135 B.B. Comer Hall

The University of Alabama provides a variety of international education programs and services at the Capstone International Center (CIC), housed on the first floor of B. B. Comer Hall. Known simply as Capstone International, the Capstone International Center takes its name from its historical pre-eminence in the state as a provider of international education. CIC is comprised of several integrated units. These include the English Language Institute (ELI), Capstone International Academic Programs (CIAP) and Capstone International Services (CIS). The Capstone International Center has multiple complementary functions, ranging from intensive English language instruction to U.S. immigration compliance, Fulbright programs and overseas study. Capstone International is a multipurpose center designed to inform, assist and educate both international and domestic students, faculty and staff members, as well as members of the local civic, education and corporate communities. Capstone International annually serves almost 1,500 international students on campus and makes possible the participation of UA faculty, students and staff in a multitude of internationally focused degree, research and outreach programs. Capstone International Academic Programs sends approximately 1,100 students abroad each year.

CIC is a member of numerous international education organizations providing professional training, outreach to national and local governmental entities, and annual conferences to promote international education at member universities. These organizations include NAFSA: Association for International Educators, the Institute for International Education (IIE), the Council on International Educational Exchange (CIEE), the Association of International Education Administrators (AIEA), the European Association of International Education (EAIE) and the Forum on Education Aboard.

Through its three units, English Language Institute (ELI), Capstone International Academic Programs (CIAP) and Capstone International Services (CIS), the Center provides courses and activities available to the constituents of The University of Alabama community.

Community and Corporate Outreach

Outreach is an important function within Capstone International as evidenced by its Capstone International newsletter, support of the Sakura Festival (focused on Japanese culture) and the work of the English Language Institute (ELI). ELI provides the annual World Friends Day for local elementary schools, annual summer programs for students from our sister city in Japan, on-site corporate programs, and tailored courses for the children and spouses of employees. A variety of activities are coordinated in conjunction with the Rotary International Club of Tuscaloosa, Tuscaloosa's International Friends (TIF), the Children's Hands-on Museum (CHOM), University Place Montessori School and the Tuscaloosa Club of Altrusa International. In addition, CIC has previously worked extensively with the German Supplementary School for school-age children from Germany and is currently working on the development of a German Culture Center.

Language Supplementary Schools

In 1995, the University in cooperation with Mercedes-Benz U.S. International Inc. established the German Supplementary School to provide supplementary education in German to children ages six to 16 who will return to a German-speaking educational system after living in Alabama for several years. The school is no longer located on the UA campus, but CIC continues to work closely with Mercedes-Benz to promote German culture and language within the community. In addition, CIC works with the Birmingham Supplementary School for Japanese established by Honda to provide education to Japanese-speaking children.

Sakura Festival

Capstone International organizes the annual spring Sakura Festival and Haiku contest for the state of Alabama.

Japan Program

Reciprocal student exchange programs with Kansai Gaidai University in Osaka, Ritsumeikan University, Hiroshima University and Chiba University allow qualified undergraduate students to study Japanese in Japan while undertaking Asian studies, humanities, social science and science courses taught in English. Generous AIE-J scholarships providing round-trip transportation and a monthly stipend are available on a competitive basis to UA students. Gilman and Freeman-ASIA scholarships for students on financial aid are also available. Examples of courses offered at partner institutions include Japanese-Style Management, Japanese Economic Development, Sociology of Everyday Life in Japan, Survey of Modern Japanese History, Japanese Culture and Education, Seminar in Geography, Agriculture and Agricultural Sciences in Japan, and Introduction to Deep-Sea Biology. For students who have already earned undergraduate degrees, Chiba University offers prestigious Monbusho (Ministry of Education) research scholarships for 18 months of study. The Monbusho scholarship provides round-trip transportation and monthly stipends to cover living costs.

Additional information about the Japan Program may be obtained from Capstone International, 135 B.B. Comer Hall; (205) 348-5256.

Global Studies Certificate Program

The University of Alabama Global Studies Certificate (GSC) Program is designed to introduce the undergraduate student to the cultural, economic, physical and political aspects of being a world citizen in the 21st century. The program emphasizes the contemporary rather than the historical. Nine hours of the program are specified as GSC core (usually lower division) and must be taken prior to the six Emphasis Area hours (usually upper division).

The CIP 200 Introduction To Global Studies course must be taken first in the sequence of GSC Core and Emphasis Area courses, but the remaining courses may be taken in any order. The introductory course sets the basis for the student's approach to the entire Global Studies Certificate Curriculum, both core and upper division, Emphasis Area courses.

Students must successfully complete 15 hours of coursework as specified below. Some courses may have prerequisites. Candidates for the certificate must complete an application form before the certificate can be awarded. Application forms are available in the Capstone International Center, Room 135 B.B. Comer Hall, and must be submitted no later than the semester prior to graduation.

		Hours
Mandatory introductory course:		3
CIP 200	Introduction To Global Studies	
Select two of four existing courses:		6
ANT 102	Intro Cultural Anthropology	
GY 105	World Regional Geography	
GY 110	Prin Human Geography	
SOC 101	Intro To Sociology	
GSC emphasis area courses:		6
AMS 151	Intro American Studies: Globalization, Nationalism, and Regionalism	
AMS 231	Contemporary America	
ANT 412	Peoples Of Europe *	
ANT 413	Peoples Of Latin Amer *	
ANT 414	Peoples Of Africa *	
ANT 417	Peoples Of South Asia *	
EC 430	International Trade	
EC 431	International Finance	
EC 442	Economic Development of Latin America	
EN 207	World Literature I	
EN 208	World Literature II	
EN 311	Special Topics In Literature	
EN 320	Intro To Linguistics	
EN 429	Directed Readings	
GY 344	Geography Of Africa	
GY 377	Cultural Geography	
IBA 350	Intro World Business	
IBA 351	Multinatl Business Communctn	
MUS 250	Music In World Cultures	
NEW 472	Social Change	
NEW 473	Globalization & Folk Crft Prod	
NEW 474	Survival	
PSC 204	International Relations	
PSC 332	Lat Am Political Syst	
PSC 333	Soviet Post Sov Politics	
PSC 334	Government Politics West Europ	
PSC 342	For Pol Sov Un Suc State	
PSC 413	Amer Foreign Policy	
PSC 434	Internatl Polit Econom	
PSC 442	Internatl Conflict	

PSC 444	International Organizations	
REL 100	Intro To Religious Studies	
REL 220	Survey Of Asian Religion	
REL 224	Judaism	
REL 238	Philosophies Of Judaism	
TCF 340	International Cinema	
Independent study (all colleges) **		3
Language studies (FL or HU for some) ***		6

*Offered according to demand.

**Special Topics/Field Education/Directed Readings with permission of department/professor and GSC director.

***All MLC and critical languages at the 300- to 400-level are eligible.

Fulbright Programs

Capstone International encourages and facilitates active participation in all Fulbright programs. Since the founding of the Fulbright programs in 1948, approximately 125 UA students, faculty and professional staff members have been selected to receive the prestigious Fulbright award. Their appointments have ranged from Austria to Zimbabwe. More information is available from the CIC, 135 B.B. Comer Hall; (205) 348-5312; or fax (205) 348-5298.

International Academic Exchange Programs

The University of Alabama offers a number of international exchange programs that allow students to study as visiting students at overseas universities. Each program gives students opportunities to learn in a foreign country where they obtain firsthand knowledge of another people, language and culture in addition to gaining course credits. In some cases, a working knowledge of the language of the host country is a prerequisite. In others, the language can be studied for the first time in the host country; sometimes, no language requirement is necessary (e.g., England and Australia). Students pay University of Alabama tuition based on residency and are assisted in arranging transfer of credits through appropriate departments and divisions prior to departure. Graduate students should secure approval from the Graduate School prior to taking any overseas credit that they may wish to transfer.

International exchange programs are available to UA students at the following partner universities for either one or two semesters and, in some cases, summer study:

- Australia
  - Queensland University of Technology (Brisbane)
- Austria
  - University of Klagenfurt
- Belgium
  - Université de Liege
- Denmark
  - Aarhus School of Business
- England
  - University of Birmingham
  - University of Hull
  - University of Leicester
- France
  - Université François-Rabelais (Tours)
  - Bordeaux Business School
  - Paris-EST Marne la Vallee (Paris)
  - Université de Poitiers (Poitiers)
- Germany
  - University of Augsburg
  - University of Berlin
  - University of Mannheim
- Italy
  - Polytechnic University of Torin
  - University of the Sacred Heart (Milan)
- Japan
  - Chiba University
  - Ritsumeikan University (Kyoto)
  - Hiroshima University
  - Meiji University
  - Kansai Gaidai University (Hirakata-City)
- Korea
  - Pusan National University
  - Yonsei University (Seoul)
  - Ajou University (Suwon)
  - Yeungnam University (Daegu)
- The Netherlands
  - Hanzehogeschool-Gr'ningen
- Scotland
  - University of Glasgow
- Taiwan
  - Feng Chia University (Taichung)
- Wales
  - University of Wales (Aberystwyth)

Short-term Academic Group Overseas Study

In addition to its longer-term international exchange programs, The University of Alabama conducts many overseas study programs lasting from two to six weeks, most often during the summer and interim sessions. Scholarships and financial aid are available to students participating in these programs. Programs and fields of study in recent years have included the following:

- Alabama at Oxford: English, History, Honors
- Alabama in Austria: German language and culture
- Alabama in Belgium: Political Science
- Alabama in China: Chinese, business, communications, culture
- Alabama in Ecuador: Biology
- Alabama in France: French language, culture and literature
- Alabama in Ghana: Geography, healthcare
- Alabama in Greece: Classical civilization, religious studies
- Alabama in Italy: Italian language and culture, art history, New College
- Alabama in Japan: Japanese language and culture, transcultural nursing
- Alabama in Spain: Spanish language and culture
- Alabama in Spain: Engineering
- Alabama in Sweden: Political science
- Alabama in Turkey: Business
- Alabama in Barcelona: Internships
- Alabama in Dublin: Internships
- Alabama in London: Internships

Affiliate Programs

The University of Alabama offers programs through third-party program providers every year and students continually have positive feedback on their experiences with these providers. Students participating in these programs can use their UA scholarships and financial aid for funding. Also, students do not pay UA tuition but pay the program fee charged by the program provider and additional expenses including, but not limited to, travel, personal, meals, visa, housing expenses, etc. A list of UA's Affiliate Programs can be found online at studyabroad.ua.edu.

International University Programs

Students at The University of Alabama also have the opportunity to spend a summer, semester or academic year at several international universities with which we are affiliated. Participants in these programs can use their UA scholarships and financial aid for funding. Also, students do not pay UA tuition but pay the cost of attending the international university. A list of international university programs can be found online at studyabroad.ua.edu.

Academic Program Policies

- Students participating in UA programs abroad must be in academic good standing. GPA requirements vary by program.
- All UA students participating on programs abroad will be cleared through the Office of Judicial Affairs.
- Students must submit all application and pre-departure requirements prior to program departure.
- Capstone International Programs does not offer programs in countries where current U.S. Department of State Travel Warnings exist.

Additional information about any international study program may be obtained from studyabroad.ua.edu; 135 B.B. Comer Hall; by writing The University of Alabama, Capstone International, Box 870254, Tuscaloosa, AL 35487-0254; or by calling (205) 348-5256. If The University of Alabama is unable to meet the overseas study needs of a student, Capstone International provides information about additional

international education opportunities available through study abroad at other institutions and organizations.

International Services

International Services, a unit of the Capstone International Center, provides specialized services for international students, professors, research scholars, visitors and their families.

International Services' primary function is to provide visa support for these international members of the UA community. The office is responsible for the creation and ongoing maintenance and verification of visa support documents within the Student and Exchange Visitor Information System (SEVIS) for both F-1 student visas and J-1 student and scholar visas. These are ongoing services that monitor individual progress according to federal regulations. The office is also responsible for filing H-1B and other types of work-visa support documentation on behalf of international faculty and staff at UA.

International Services conducts comprehensive orientation programs and provides vital information regarding U.S. immigration compliance as well as multicultural guidance and counseling. Great emphasis is placed on international student programming. International Services coordinates a variety of student activities such as a weekly international coffee hour, an international spouse support group and an annual Welcome reception for international students at the President's Mansion.

Professional staff members advise and assist the International Student Association, which represents all international students and the many nationality organizations on campus. Professional staff work closely with community groups such as Tuscaloosa's International Friends (TIF), which sponsors a friendship family program for international students.

International Services may be contacted by telephone at (205) 348-5402; fax at (205) 348-5406; email at international@ua.edu; or mail at The University of Alabama, International Services, Box 870254, Tuscaloosa, AL 35487-0254, USA. More information about office services, visa regulations and processing of visa support is available online at is.ua.edu. International Services is located in 105 B. B. Comer Hall.

English Language Institute (ELI)

For the non-native speaker of English, The University of Alabama English Language Institute (ELI), a part of Capstone International, offers two types of year-round English-language programs: The Intensive English Program designed for individuals seeking intensive English study and External Programs designed for groups desiring highly-specialized curricula. In addition, the ELI has two programs for matriculated students at The University of Alabama: the International Teaching Assistant Program, which trains and evaluates international graduate teaching assistants, and the Academic Support Program, which provides opportunities for undergraduate and graduate students who may want or need additional English-language instruction.

To obtain more information about any of the ELI programs, contact The University of Alabama, English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; visit eli.ua.edu; call (205) 348-7413; fax (205) 348-9266; or email info@eli.ua.edu.

Intensive English Program

The ELI Intensive English Program (IEP) is designed for individuals who need to learn English as a second language. The program focuses on preparing students for academic success, both in English-language proficiency and cultural awareness, for undergraduate and graduate study at The University of Alabama.

Six levels of study, from beginning to advanced, are available. Each level consists of 20 hours of core classes per week; additional optional classes are also available for students who wish to take them. Each level of study lasts approximately eight weeks and is available six times per year with sessions beginning in August, October, January, March, May and June. Students may begin their English study at the beginning of any one of these sessions.

An ELI student wishing to enter an undergraduate degree program at The University of Alabama may meet UA's English proficiency requirements either by obtaining the required TOEFL (Test of English as a Foreign Language) score or by completing Level 6 with a minimum grade point average of 3.0 in Levels 4, 5 and 6. Undergraduates who meet certain conditions (minimum TOEFL score and GPA) become eligible to enroll in undergraduate courses while completing their ELI program of study. The number of UA courses that an eligible student may take is determined by the ELI. Students pursuing graduate study must complete Levels 4, 5 and 6 with a minimum GPA of 3.5. In certain cases, the Graduate School, the ELI and the student's academic department may together grant permission for a student who has completed Level 4 or higher with a minimum GPA of 3.5 to enroll in one graduate course per semester while completing the ELI program of study. The specific course must be approved by the instructor and department prior to enrollment.

Students who apply for admission to UA and meet the academic and financial qualifications to enter the University but do not have TOEFL scores available or do not meet the TOEFL score requirement may be admitted conditionally or provisionally. Such students will not be eligible to begin an academic program and will be required to register for full-time study in ELI until they meet the TOEFL requirement or satisfactorily complete the ELI program as outlined above.

Intensive English Program Courses

Structure: Levels 1 to 6

Structure courses provide students with the basic grammatical structures they will need to communicate effectively in English in four language skill areas: listening, speaking, reading and writing. Each structure course emphasizes communication, both comprehension (listening and reading) and production (speaking and writing). Structure courses meet five hours per week.

Speaking/Listening: Levels 1 to 6

ELI courses in Speaking/Listening English provide students with the opportunity to improve their listening and speaking skills and to gain confidence in using English to communicate orally. Students practice appropriate conversation management skills, receive instruction on problem areas of pronunciation and learn useful vocabulary. These activities are carried on through a variety of classroom exercises that focus on the everyday situations students are likely to encounter while adjusting to life in the United States. Speaking/Listening courses meet six hours per week.

Reading/Writing: Levels 1 to 6

The Reading/Writing curriculum of the English Language Institute is designed to provide students with both the skills and the practice that are necessary for them to develop satisfactory reading and writing skills in English and eventually to function successfully in U.S. university courses where extensive academic reading and essay writing are required. Skill instruction along with accessible, varied and challenging tasks invite students to invest their time and energy in constructing meaning from written texts, responding to those texts, and producing writings of their own. Students will acquire new vocabulary and develop effective reading strategies for different types of tests. Working on closely-related reading and writing assignments, students will develop proficiency in understanding what they read and in thinking, drafting and revising their own ideas by working through the writing process with input from their classmates and teachers. Reading/Writing courses meet nine hours per week.

Oral Communication

Oral Communication is designed to help students improve their skills and proficiency in both speaking and understanding oral English. Students' oral proficiency in English will improve as a result of a variety of classroom tasks and activities. In addition, instructional activities will occasionally take place outside of the classroom in order to take advantage of opportunities in community settings. Oral Communication is divided into two separate eight-week sessions, OC I and OC II, each of which meets for nine hours per week.

Optional Classes

The ELI offers several choices of optional courses. Some examples of optional courses are: TOEFL Preparation, Pronunciation, American Culture, Current Events, Business English, English Through Current Events and English Through Music. Optional classes typically meet two to three hours per week.

Culturally Speaking Class

Through the Culturally Speaking class, ELI students meet regularly with American students to converse in English in relaxed surroundings. Culturally Speaking provides a comfortable way for ELI students to form friendships with American students and to practice their English.

Culture and Language Exchange Program

The Culture and Language Exchange Program matches the ELI students with UA students who are studying the ELI student's native language. Once matched, these pairs or groups of students then meet as often as they like for conversation practice in both English and in the particular foreign language.

ELI External Programs

ELI External Programs consist of a variety of programs designed for groups of participants with mutual goals and concerns who desire highly-specialized, intensive curricula. Such programs are typically designed for international English teachers, students whose international universities have approved given curricula for credit, international graduate students preparing to enter universities throughout the United States, and business professionals who wish to improve their overall effectiveness in English or to concentrate on specific skills such as written communication.

An organization wishing to participate in such a program should clearly define the goals of its group and keep in mind that program enrollments typically require a minimum of 10 participants. Financial sponsorship for the above programs may come from ministries of education, embassies, corporations, private philanthropic organizations, U.S. or other government sponsoring agencies, or the individual

participants themselves. Programs may be offered at any time of the year and typically range in length from two to six weeks.

A second type of external program is the corporate short-term program for individuals from a single corporation who participate in a curriculum composed partially of courses in the ELI Intensive English Program and partially of specialized courses designed specifically for the participants. These programs are offered as needed throughout the year.

A third type of external program may be offered on-site at the corporation or University. As with all external programs, dates can be customized and curricula can be specially designed for the particular group.

English Teacher Training Program

This program is designed for non-native speakers who are teachers of English. The curriculum typically consists of courses in conversational management, debate, listening and speaking, pronunciation, and public speaking, as well as a teaching workshop and series of methodology lectures. This curriculum can be adjusted to meet the needs of a particular group of English teachers. The program aims to further refine the teacher's own usage and to address and evaluate current theories of methodology in light of the country's unique challenges in teaching English. These courses meet four to six hours daily.

Academic Support Program

The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the undergraduate level, newly admitted international students, after taking the UA English Proficiency and Placement Exam (EPPE) prior to beginning their first semester at UA, may be asked to take one or two ELI courses in spoken and/or written English on a part-time basis. These students may pursue their academic studies while fulfilling their EPPE requirements. Students must pass the designated ELI Speaking/Listening or Academic Writing course(s) before enrolling in the University's required English courses for credit. In addition, the UA Language Resource Center is available for individualized language assistance.

To obtain more information about any of the above ELI programs, request a brochure and application for the Intensive English Program, or to discuss the possibility of an external program for your group, contact The University of Alabama English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; visit eli.ua.edu; call (205) 348-7413; fax (205) 348-9266; or email info@eli.ua.edu.

College of Arts and Sciences

Mission

The College of Arts and Sciences is central to the instructional, research and outreach missions of The University of Alabama.

The College provides the fundamental liberal arts foundation necessary to the education of all UA students. It is dedicated to educating individuals based on the liberal arts philosophy of making each student a lifelong learner.

The College is committed to leadership in pedagogical innovation and the use of technology to further student learning. It values the traditional residential campus and is dedicated to providing an array of stimulating learning communities where students may grow personally and intellectually. The discovery and sharing of knowledge is at the heart of our enterprise. The College is committed to leadership in the creation, dissemination and application of knowledge, and the preparation of future scholars. It accomplishes this by maintaining and enhancing both its nationally competitive faculty and its nationally ranked graduate and undergraduate programs.

Learning and quality of life are interrelated. As the state's largest liberal arts college, the College of Arts and Sciences is central to the cultural, intellectual and social life on campus and in the community, state and region. It contributes fundamentally to the economic development of the state through teaching, creative activity, research and outreach.

The College holds to the principle that knowledge must serve humanity and the environment, and it is dedicated to global responsibility, justice and ethics.

Special Emphases

Learner-Centered College

The College of Arts and Sciences centers its considerable human and technological resources on the individual student and that student's learning. In the Mathematics Technology Learning Center, students use computer-based instruction to learn at a pace suited to their individual needs. Technology used in other courses encourages active, not passive, interaction with course materials. The college seeks to educate self-reliant young men and women who know themselves and contribute significantly to their professions and communities.

Undergraduate Research and Creative Activity

Undergraduate students in the college have remarkable access to opportunities for research and creative activities under the guidance of a faculty member. The opportunity to move from synthesizing information and ideas generated by others to creating new ways of knowing is a remarkable intellectual leap and one that many students in the College of Arts and Sciences take. The College sponsors undergraduate research days that encourage students to share their experiences.

Blount Undergraduate Initiative

Endowed by Winton and Carolyn Blount and assisted by many other donors, the Blount Undergraduate Initiative is a four-year program that offers students in the College of Arts and Sciences a unique opportunity for an enriched liberal arts education in a lively and enjoyable community of scholars. All entering freshmen in the college, regardless of their academic interests, are eligible to apply for admission. With courses and other activities, the program emphasizes the connectedness of knowledge and the importance of faculty-student learning partnerships. See the Blount Undergraduate Initiative section of this catalog.

Interdisciplinary Study

Virtually all of the programs of study in the College of Arts and Sciences emphasizes interdisciplinary study. Whether a student's interest is American studies, studio art or biology, the ability to draw together learning from different fields, to integrate it, and to use it later to analyze and solve problems in one's profession, community, and own life is the key characteristic of a liberally educated person. Interdisciplinary learning is especially important to students' experiences in New College. New College seminars, which are open to all students, and the New College depth studies are hands-on experiences with interdisciplinary learning.

Learning Communities

Any sense that a student is "just a number" evaporates in a learning community. In the College of Arts and Sciences, these take different forms, some being residential and others not affecting the choice of residence hall, but all fuse common academic experiences with out-of-class community. The college emphasizes the importance of these, especially for freshman students.

International Education

Citizenship is global. As the College prepares students for citizenship, this fact is emphasized across the curriculum. While the College has strong language programs, including the unique Critical Languages program in which students can study many of the world's diverse languages, global citizenship affects all of the disciplines of the College. College of Arts and Sciences faculty lead many of the University's summer study abroad programs and direct semester-long programs as well for students in the college.

Academic Exploration

Many students enter the College of Arts and Sciences undecided about their academic direction. The College encourages these students to explore the resources of the College and the University during their first several semesters in order to make informed choices. The University's General Education Requirement, which includes every introductory course in the disciplines of the College, allows students to meet degree requirements while determining those fields of study that best fit with their talents and passions for what they think is important.

Pre-professional Preparation

Many College of Arts and Sciences graduates go on to medical school, law school, dental or optometry school, physical or occupational therapy programs, or other health-related or professional study. Arts and Sciences majors provide excellent preparation for all of these programs, and the College's pre-professional advising programs are very supportive. Student organizations, including Alpha Epsilon Delta, the pre-medical honorary in which UA is the alpha chapter, are also important parts of pre-professional preparation.

Undergraduate Degree Programs

Bachelor Degrees

The College of Arts and Sciences offers majors and minors in a variety of disciplines in the social and behavioral sciences, the natural sciences, mathematics, the humanities, fine arts, and performing arts. The College offers programs of study leading to the following degrees: bachelor of arts (BA), bachelor of science (BS), bachelor of music (BM), bachelor of fine arts (BFA), bachelor of science in chemistry (BCh), bachelor of science in geology (BSG) and bachelor of science in microbiology (BMB).

Degree Requirements

General Education Requirement

Students must meet the general education requirement. All courses that carry the following general education designations are listed on The University of Alabama's website and are usually displayed in each semester's Schedule of Classes. Please consult the listings for each semester.

1. Freshman Composition (FC) – Six hours
2. Upper-level Writing (W) – Six hours: Writing-designated courses are 300- and 400-level courses usually completed in the student's junior and senior years and most commonly in the major or minor. The writing requirement must be satisfied by courses taken at The University of Alabama.
3. Foreign Language (FL) and Computer (C) – Six hours: Each student completes one of the following options: Six semester hours in courses approved for the computer designation (such courses assume a working knowledge of the computer) OR two semesters or the equivalent in one foreign language. Students must earn grades of C- or higher in the first course of the two-semester sequence before enrolling in the second course.
4. Humanities (HU), Literature (L) and Fine Arts (FA) – 12 hours: To satisfy this requirement, each student completes the following: three hours of fine arts, three hours of literature, and six hours of other fine arts, literature or humanities courses. Each student must complete a six-semester-hour sequence in either literature or history. To satisfy the breadth of learning so crucial to general education, a maximum of six hours in any one department may be applied to the humanities, literature, fine arts, history, and social and behavioral sciences requirements.
5. History (HI) and Social and Behavioral Sciences (SB) – 12 hours: To satisfy this requirement, each student completes the following: three hours of history and nine hours of other HI and SB courses.
6. Natural sciences (N) and Mathematics (MA) – 11 hours: To satisfy this requirement, each student completes the following: eight hours of natural sciences (including six hours of lecture and two hours of accompanying lab) and three hours of mathematics (the mathematics requirement must be satisfied with MATH 110 Finite Mathematics or higher).

All BS degrees must include Calculus I (MATH 125 Calculus I or MATH 145 Honors Calculus I), or a higher-level calculus course.

Major

Major Subjects of Specialization

Each student must have at least one major subject of specialization. See the listing for majors and minors available in the College of Arts and Sciences. Requirements for majors and minors can be found under academic departments.

Hours in the Major

Each major requires a specific number of hours that is specified in the description of the major in this catalog. A student may choose to take additional hours in the major, but the department cannot require more than the stated number. Students in degree programs requiring 120 hours may apply a total of 42 hours in a single discipline toward degree requirements. Courses specifically excluded from the major are not included in the 42 hours.

Residency in the Major

All students, including transfer students, must complete in residence a minimum of 12 hours at the 300- or 400-level in the major. Additional residency requirements are cited in this catalog.

Grade Point Average in the Major

Each student must earn a minimum grade point average of 2.0. A student's major GPA is calculated in the following manner:

1. Calculation is based only on classes currently being used to complete major requirements.
2. Calculation does not include failed and repeated courses.
3. Calculation does not include classes in the major subject area that were taken over and above what is required to complete the major. Since these classes are not actually completing requirements, they are not taken into consideration.
4. When multiple classes can be used to complete a particular requirement, the class with the best grade will be used in the GPA calculation.
5. Both UA institutional coursework and transfer work will be used to calculate the major GPA.

Duplication of Coursework

The use of the same course to satisfy specific requirements in the major and minor is not permitted. However, courses that are used to satisfy General Education Requirements can be used to complete major or minor requirements. Ancillary courses required for the major may be used to satisfy requirements in the minor or in the second major.

Double Majors

A student may major in two subjects with the following provisions:

1. If the two majors lead to different degrees offered in the College of Arts and Sciences (BA, BFA, BM, BS or one of the designated degrees) or in another UA division, the student chooses which one of the degrees to receive.
2. A minor is not required, but one minor may be specified. Double minors are not permitted in combination with double majors.

Minor or Second Major

A minor or a second major is required for the majority of students. See the requirements for majors and minors as listed in this catalog.

Hours in the Minor

This catalog states the number of hours and the specific courses that are required for minors approved for students in the College of Arts and Sciences. A student may choose to take additional hours in the minor, but the department cannot require more than the stated number. Minors are subject to the same limitations on concentration of applicable hours as are majors.

Residency in the Minor

All students, including transfer students, must complete in residence a minimum of six hours at the 300- or 400-level in the minor. Additional residency requirements are cited in this catalog.

Grade Point Average in the Minor

Each student must earn a minimum 2.0 grade point average. A student's minor GPA is calculated in the following manner:

1. Calculation is based only on classes currently being used to complete minor requirements.
2. Calculation does not include failed and repeated courses.
3. Calculation does not include classes in the minor subject area that were taken over and above what is required to complete the minor. Since these classes are not actually completing requirements, they are not taken into consideration.
4. When multiple classes can be used to complete a particular requirement, the class with the best grade will be used in the GPA calculation.
5. Both UA institutional coursework and transfer work will be used to calculate the GPA.

Duplication of Coursework

The use of the same course to satisfy specific requirements in the major and minor is not permitted. However, courses that are used to satisfy General Education Requirements can be used to complete major or minor requirements. Ancillary courses required for the major may be used to satisfy requirements in the minor or in the second major.

Double Minors

Students may minor in two subjects, with the following provisions:

1. One minor may be selected from approved minors in other divisions.
2. There is no duplication of coursework used to complete the two minor programs or the major and minors.

Electives

Additional coursework to achieve 120 hours or more in the degree program is required.

Additional Expectations

These additional requirements are important to ensuring the liberal arts character of the degree program. The requirements set minimum standards for the degree, including the promotion of sufficient study at The University of Alabama, setting minimum standards of performance quality, establishing expectations for study at the advanced level and in liberal arts disciplines, and limiting the applicability of certain types of courses.

Catalog

All degree requirements are met under one catalog. This is usually determined by the catalog in effect at the time of the student's first enrollment, but a student may change his or her catalog to a more recent one.

Residence in the College and in the Major and Minor

While enrolled in the College of Arts and Sciences, students must earn a minimum of 30 hours on this campus. A minimum of 12 hours in each major and six hours in each minor must be earned at the 300- or 400-level in residence.

Minimum Hours with 2.0 Grade Point Average

1. Each student must complete a minimum of 120 semester hours of coursework approved by the College of Arts and Sciences.
2. Each student must earn a minimum 2.0 grade point average on the total number of hours attempted, including all work at UA and all transfer work.
3. Each student must earn a minimum 2.0 grade point average on hours attempted at The University of Alabama.

36 Hours in 300- and 400-Level Courses

Each student in the College of Arts and Sciences must complete a minimum of 36 semester hours in courses at the 300 or 400 level. The 36-hour total includes the 300- and 400-level courses completed in fulfillment of major and minor requirements.

Junior college credits are not considered advanced level.

90 Hours within the Disciplines of the College

All degree programs in the College of Arts and Sciences require at least 90 hours selected from A&S or related disciplines. Transfer courses in these disciplines apply to the completion of the 90-hour requirement.

Courses with the following prefixes count toward this requirement: AAST, AMS, ANT, ARB, ARH, ART, AS, AY, BSC, BUI, CH, CHI, CL, CD, CBH, CIP, CJ, CRL, CROA, CS, CZE, DN, DNCA, DUT, EC, EN, FA, FIN, FLC, FR, FRS, GS, GY, GEO, GN, GR, HEB, HIN, HY, HU, IHP, INDO, IT, JA, KOR, LA, MS, MATH, MDGR, MLC, MUA, MUS, NEW, NOR, PH, PHL, POL, POR, PSC, PY, REL, RUS, SAN, SOC, SP, SS, ST, SWA, SWED, TH, THAI, TURK, UA, UH, URDU, VIET, WS, WL.

Degree Credit for Activity Courses

A student may apply a maximum of four semester hours in activity courses toward graduation.

Activity courses include compass courses (AS 101 Freshman Compass: Arts & Scien, AS 102 Compass: Arts & Sciences, AS 299 Junior Seminar, BCE 101

Freshman Compass: UA, GBA 145 Freshman Compass: CBA, HES 100 Freshman Compass Human Env Sci, NUR 102 Freshman Compass: Nursing, NUR 104 Liv Learning Prof Nursing Prac); study skills courses (, NEW 222 Academic Potential); leadership courses (AHE 450 Res Asst Leadershp Devlp, HES 275 Leadership Develop Thru Serv); career exploration course (HES 250 Career Develop/Planning); recreation courses (NEW 201 Recreation For Life, NEW 202 Recreation For Life); kinesiology activity and coaching courses (KIN 199 Ecol Appr Hlth & Fitness, KIN 295 Workshop Athl Coach Educ, KIN 352 Psychology of Coaching, KIN 370 Coaching Soccer, KIN 381 Coaching Football, KIN 382 Coaching Basketball, KIN 383 Coaching Baseball, KIN 384 Coaching Track and Field, KIN 386 Coaching Volleyball, KIN 420 Issues in Athletics Coaching); and 100-level and 200-level military or Air Force studies courses.

Degree Credit for Upper-Division Courses in Military Science and Air Force Studies (MIL and AFS)

A student may apply toward graduation a maximum of 12 semester hours of credit in 300- and 400-level courses in military science (MIL) or Air Force studies (AFS).

Multiple Undergraduate Degrees

Students and former students interested in obtaining a second bachelor's degree and currently enrolled students interested in earning concurrent degrees must adhere to several stipulations described in this section of the catalog. A student may only be awarded one degree with the same degree type (i.e., bachelor of arts, bachelor of science, bachelor of science in electrical engineering, etc.). For example, once a bachelor of arts is earned, a student may pursue a second major associated with a bachelor of arts but not a second bachelor of arts degree. In this example, the student could pursue a bachelor of arts in communication because the degree type is different.

Students are responsible for declaring their intent to pursue a second bachelor degree by filing an approval plan of study with the primary college of residency. To ensure appropriate advising, approval is obtained at a point when no less than 30 hours of course work remains for the completion of one or both degrees. Students are also responsible for re-filing updated plans of study if changes are desired.

For degrees in different colleges, students must establish one college as the primary college of residency. If program accreditation is a component of the degree program, then the primary college of residency must be the college of the degree program whose professional accreditation requires residency. The student must pay all fees and adhere to all requirements of each college, other than residency.

Students are responsible for filing a degree application for each degree sought according to the published degree application submission deadlines of the colleges and/or schools recommending the degrees and within the deadlines established by the Office of the University Registrar.

Concurrent Bachelor Degrees

Currently enrolled students are encouraged to pursue graduate level studies toward an advanced degree through the University Scholars Program in lieu of pursuing a concurrent bachelor's degree. However, a currently enrolled student may earn two different bachelor's degrees (i.e., a B.A. and a B.S.) concurrently. Both degrees do not have to be received in the same semester provided the concurrent degree plan of study was approved prior to the receipt of the first degree. Students pursuing concurrent degrees must adhere to the following provisions:

1. Each student must earn a minimum of 150 credit hours, including a minimum of 60 credit hours in residence.
2. Each student must complete all University, College, major and minor requirements for both degree programs. If more than one minor is required, only one must be completed.
3. Each student must fulfill all prerequisites and course requirements in the two different major fields.
4. Courses may be counted toward meeting the requirements in more than one area unless specifically prohibited by the academic departments and so stated in the catalog. However, credit for such a course cannot be applied toward both the total hours required for the first degree and the additional hours required for any additional degree.
5. A student who completes all requirements for two or more different degrees (e.g., bachelor of arts and bachelor of science) will be awarded multiple degrees and will receive multiple diplomas.

Second Bachelor Degree, UA Alumni

A student who has previously earned a bachelor degree from The University of Alabama and wishes to pursue further undergraduate work may complete an additional major and have it noted on the official transcript (with date of completion) OR earn a second degree if it is different from the first (i.e., a B.A. if the first degree was a B.S., and vice versa). This student must apply for readmission for the second degree and meet the following provisions:

1. Each student must earn a minimum of 30 additional credit hours in residence in the College of Arts and Sciences over and above any hours applied to the first degree.
2. Each student must complete all University, College and major requirements for the second degree in the catalog under which the student enters, or in a subsequent catalog.
3. Each student must fulfill all prerequisite and course requirements in the major field(s) for the second degree.

Second Bachelor Degree, Non-Alumni

A student holding a bachelor degree from a regionally accredited institution of higher learning may earn a second bachelor degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the College and University level. The student must apply for admission for the second degree and meet the following provisions:

1. Each student must meet all requirements for the second degree to include all course hours, grade point, ancillary, prerequisite and residency requirements specified by the degree program.
2. If a student holds a bachelor degree from a regionally accredited institution of higher learning, the University presumes all general education requirements have been completed. This presumption does not apply to ancillary requirements.
3. Each student must earn 25% of the degree requirements (a minimum of 30 additional credit hours for a 120 hour degree) in residence at The University of Alabama over and above any hours applied to the first degree.

Academic and Pre-professional Advising

Major and Minor Advising

A student entering the University who has an academic interest in one of the major programs of the college is encouraged to designate that field at admission. During their freshman year, all Arts and Sciences students are advised through the Student Services Center in 200 Clark Hall. At the end of the first year of enrollment, students who have declared a major are advised through their academic department and enjoy the benefit of faculty knowledge, advice and enthusiasm for their particular field of study. Each academic department has an undergraduate advising director and designates a specific faculty member to work with each student, individually. The student and advisor work together in planning the major and minor programs of study. Changes in coursework required for the major or minor program of study can be made upon the written recommendation of the departmental undergraduate director or chair. Such changes are reported to the College Registrar by the department for incorporation into the student's record.

Acceptance for Major and Minor Programs of Study

The college expects students to declare their majors by the fourth semester of full-time enrollment. Students should be familiar with the criteria for acceptance into particular programs and be prepared to meet those criteria. Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama. Please note that some majors and minors may require auditions, special applications or permissions. Specific requirements for each major and minor are included in the program descriptions outlined in this Catalog.

College Advising

Student Services Center
200 Clark Hall
studentservices@as.ua.edu
(205) 348-5970
The College of Arts and Sciences Student Services Center staff provides assistance to all of the College's undergraduates. Services include academic advising for all students focused on College- and University-level requirements or on coursework necessary for law school or health careers. Specific services include: academic planning assistance, college-level scholarship programs, compass courses, degree applications and graduation certification, freshman learning communities, freshman and transfer student orientation, general information about academic policies and procedures, course articulation and equivalency, advising for study abroad, junior-year advising audits, living-learning communities, services for prospective students and newly admitted students, and special permissions to add or drop courses. Other services include: academic bankruptcy, change of division, schedule changes, and permissions to take overloads, to audit a class and to reconcile time conflicts.

In addition, the Student Services Center houses the College's first-year advising program and programs of pre-professional advising for students interested in careers as health professionals (other than nursing) and those interested in studying law.

First-year Advising Program

200 Clark Hall
(205) 348-5970
as.ua.edu/home/undergraduates/academic_advising_and_registration/student_services_center
studentservices@as.ua.edu
The College of Arts and Sciences offers a First-year Advising Program. The mission of the First-year Advising Program is to have each student enjoy the resources and opportunities of the University and the College, take personal ownership of his or her academic career, and graduate in a timely fashion. It is designed especially for freshman students transitioning from high school to college. These students may enter the college as designated majors, or they may be pre-major students who wish to explore different academic interests while they make progress toward their degrees. Students who enter as pre-major studies complete general education requirements at the same pace as students who have decided on their interest areas. The First-year Advising Program offers academic advising, out-of-class programs and opportunities for study in a number of fields so that students may make informed decisions about their major field of study or choosing a field of study. This program works cooperatively with and encourages students to use the resources of the Center for Academic Success, the Writing Center, the Career Center, the Community Service Center, the departments of the college and other UA academic divisions. The First-year Advising Program is closely aligned with the College's program of living-learning and learning communities.

Health Professions Student Services

200 Clark Hall
(205) 348-5970
premed.ua.edu
premed@ua.edu
The health professions advising program works with all students who are interested in pursuing careers in dentistry, medicine, pharmacy, physical therapy and other health professions fields except nursing.

Pre-Dental Program

A wide variety of programs may be planned that will fulfill specific requirements for admission to dental school and allow students to pursue their individual academic interests. Students preparing to enter dental school should consult the catalogs of the dental schools of their interest early in their undergraduate enrollment in order to be informed of the exact requirements for entrance.

Although specific admission requirements vary, most dental schools require:

		Hours
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 118	Honors General Biology I	
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	4
BSC 120	Honors Gen Biology II	
BSC elective		4
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
PH 101 or	General Physics I or	4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 102 or	General Physics II or	4
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	

Since admission to professional schools is highly competitive, students planning careers in the health professions should be aware that satisfactory completion of pre-professional requirements does not guarantee admission to professional schools. Therefore, students are advised to plan undergraduate programs with some attention to possible alternative goals. Periodically, the health professions advisors will assist students in realistically evaluating their potential for admission to professional schools.

The pre-dental program adviser is the primary adviser for students who enter the University as pre-dental until they declare a specific major. After that, and for other students who have an interest in dentistry, the pre-dental adviser is available as a secondary source to assist specifically with issues related to dental school.

Pre-Medical Program

The pre-medical program advisers assist students in academic planning needed to meet the admissions requirements for medical school. The advisers also provide students with assistance in preparing for interviews, scheduling the MCAT, developing recommendations and submitting application materials. Student organizations, especially Alpha Epsilon Delta, are important parts of the pre-medical education of UA students. Information about these organizations can be obtained from the pre-med advisers.

Students interested in pursuing a career in medicine may choose from a wide variety of programs that will fulfill specific requirements for admission to medical school and allow them to pursue individual academic interests. Students preparing to enter medical school should consult the catalog of the medical school of interest early in their undergraduate careers in order to be informed of each school's admissions requirements.

Although specific admissions requirements vary, most medical schools require the courses listed below. Most of these courses should be completed in the freshman and sophomore years:

		Hours
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 118	Honors General Biology I	
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	4
BSC 120	Honors Gen Biology II	
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
BSC 450 or	Fundamentals of Biochemistry	3
CH 461	Biochemistry I	
PH 101 or	General Physics I or	4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 102 or	General Physics II or	4
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	

The pre-medical program adviser is the primary adviser for students who enter the University as pre-medical until they declare a specific major. After that and for other students who have an interest in medicine, the adviser is available as a secondary source to assist specifically with issues related to medical school preparation.

Pre-Pharmacy Program

The College of Arts and Sciences at The University of Alabama offers prerequisite courses needed prior to admission to graduate programs in pharmacy. A student wanting to complete a doctoral degree in pharmacy in the minimum period of time should plan on transferring to a school of pharmacy after completing the required undergraduate courses, and he/she should begin the application process after the first or second year of undergraduate study. Some students apply for admission to a pharmacy program at a later stage, such as following the completion of an undergraduate degree, provided they have met appropriate admission requirements.

Registration in the freshman and sophomore years in the College of Arts and Sciences does not guarantee admission to the professional phase of a school of pharmacy. Enrollment in the professional phase is limited, and the student will be accepted in accord with his or her scholastic standing and aptitude for a career in pharmacy. An admissions committee makes final selection of students, and although there is no absolute, required grade point average, students accepted in recent years have approximately averaged a 3.5 GPA or higher on a 4.0 scale.

Because prerequisite courses vary considerably among pharmacy schools, and the requirements frequently change, the most prudent approach is to consult the websites of the pharmacy schools for the most recent required courses. American Association of Colleges of Pharmacy maintains a database of pharmacy

schools, and the health professions advisers can also assist students with choosing appropriate undergraduate courses. Most pharmacy schools will require at a minimum:

		Hours
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	

Each pharmacy school determines additional undergraduate course requirements.

The pre-pharmacy program adviser is the primary adviser for students who enter the University as pre-pharmacy until they declare a specific major. After that and for other students who have an interest in pharmacy, the adviser is available as a secondary source to assist specifically with issues related to pre-pharmacy.

Pre-Physical Therapy Program

Although some institutions offer undergraduate degrees in physical therapy, the standard for practice in the field of physical therapy is the graduate degree. The College of Arts and Sciences does not offer an undergraduate degree program in physical therapy, but instead offers programs of study that prepare students appropriately for entry into master's and doctoral programs. In preparing for entry into a graduate program, students may pursue one of several different majors in the College of Arts and Sciences.

The pre-physical therapy program assists students in completing degrees at The University of Alabama that prepare them to enter graduate programs in physical therapy elsewhere. As an example of some of the important fields of study that are parts of the preparation of pre-physical therapy students, UA students who enter the doctoral program in physical therapy at The University of Alabama at Birmingham are expected to have completed the courses that follow in English, the sciences, psychology and mathematics:

		Hours
EN 101	English Composition	3
EN 102	English Composition	3
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 118	Honors General Biology I	
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	4
BSC 120	Honors Gen Biology II	
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
PH 101 or	General Physics I or	4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 102 or	General Physics II or	4
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
MATH 113	Precalculus Trigonometry	3
PY 101	Intro To Psychology	3
PY 211	Elem Statistical Methods	3
PY electives		6

The pre-physical therapy adviser is the primary adviser for students who enter the University as pre-physical therapy until they declare a specific major. After that and for other students who have an interest in physical therapy, the adviser is available as a secondary source to assist specifically with issues related to study in physical therapy.

Advising for Other Health Professions

While at The University of Alabama, students may prepare for professions in occupational therapy, veterinary medicine, chiropractic medicine, podiatry or any other health-related profession requiring an advanced degree. Required undergraduate courses vary considerably among these programs; therefore, students should make an appointment with the health professions advisers early in their academic programs to ensure that they are adequately prepared for admission to a graduate program following completion of a degree at The University of Alabama. For more information, contact the health professions advisers at (205) 348-5970.

Pre-Law Program

200 Clark Hall
(205) 348-5970
prelaw.ua.edu
prelaw@as.ua.edu

The pre-law program works with students who are interested in law as a career to plan the courses and experiences that will best prepare them for law school, to decide which specific schools are best for them, and to complete the application process. Students preparing for law school may pursue different disciplinary interests. Several departments in the College of Arts and Sciences, including the Department of Philosophy, the Department of Political Science and New College, offer pre-law programs of study, but many other departments offer courses that prepare pre-law students. Visits to the UA Law School, shadowing, student organizations and internships are important parts of the pre-law experience.

Unlike some pre-professional programs that require specific courses, the pre-law program emphasizes the importance of broad liberal arts preparation. Courses that require substantial writing are good preparations for law school, as are those courses that require logical thinking and the construction of arguments. Appropriate courses range from English and history, to economics and mathematics, to communication studies. Examples of pre-law courses include the following:

		Hours
COM 100	Rhetoric And Society	3
COM 123	Public Speaking	3
COM 348	Argumentation	3
EC 110	Principles of Microeconomics	3
PHL 104 or	Critical Thinking	3
COM 122	Critical Decision Making	
PHL 140	Philosophy and the Law	3
PHL 195	Introduction to Deductive Logic	3
PSC 101	Intro American Politics	3
PHL 292	Introduction to Ethics	3
PY 101	Intro To Psychology	3

The pre-law program adviser is the primary adviser for students who have an interest in pre-law. Once a student has formally declared an academic major, the pre-law adviser is available as a secondary source to assist specifically with issues related to pre-law preparation.

Progress to Degree

Expected Progress

During the fall and spring semesters, the recommended course load for students in the College of Arts and Sciences is 14-16 hours per semester. A course load of more than 17 hours requires special permission (A&S Student Services Center, 200 Clark Hall). A course load under 12 hours is not considered full-time enrollment. Institutional research has shown that graduation rates are significantly higher for students who complete at least 12 hours during their first college semester, as compared with students who do not complete at least 12 hours.

During the summer semester, students may enroll for a maximum of 17 hours (3 hours in Interim and 7 hours each summer term).

Student Responsibility

1. Students are expected to familiarize themselves with this catalog and consult academic advisors in planning their programs of study.
2. Students are responsible for registering for course loads appropriate to the degrees they seek and consistent with their individual circumstances.
3. Students are expected to pursue successful completion of all courses in which they enroll.
4. Students are responsible for monitoring the accuracy of their academic records and reporting any errors to the College registrar in the A&S Student Services Center, 200 Clark Hall.

5. Students are expected to maintain a Crimson email account, mailing addresses and telephone numbers at which they can be reached with reasonable certainty and to respond promptly to all communications from the University and the College.
6. Students are expected to be familiar with the current academic calendar.
7. Students are expected to make full use of DegreeWorks and other available advising resources in executing their academic success plans.

Admission and Retention

The College of Arts and Sciences admits students on the basis of the University's general admission requirements listed in this catalog. As noted in the department program descriptions, in some departments, admission to upper-division status, clinical training programs, internships, practicums, etc., may require higher levels of scholarship. Retention is based on the general scholarship rule and the scholastic progress standard.

Course Placement

The College of Arts and Sciences awards credits and places students in courses based on several criteria. First, course credits are awarded based on Advanced Placement and International Baccalaureate scores. Other placement information is as follows:

In English

EN 103 Advanced English Composition is an accelerated freshman composition course that is open to students with ACT composite scores of 28 and above or SAT scores of 1240 and above. With a grade of C- or higher at the completion of the course, placement credit is awarded for EN 101 English Composition and the general studies requirement for freshman composition is complete.

In Foreign Languages

The course level at which students begin their study of a foreign language is determined by several factors. These factors include the following: the number of high school units complete, language placement examination scores, or faculty evaluation for those with native or heritage competency. Placement testing is offered in French, German, Latin, Russian and Spanish.

Level	Placement Criteria
101	**No prior instruction in the language, fewer than two high school units in the language, instruction more than four years ago, or UA placement test**
102	**UA credit for 101, or except for Spanish, UA placement test**
103	**Two high school units in the language or 101 at another institution***
201	**Credit for 102 or 103 or UA placement test**
202	**Credit for 201 or UA placement test**
300	**Credit for 202 or UA placement test**

* Available in French, German and Spanish

When students are placed in French, German, Latin, Spanish and Russian courses numbered 200 or higher and they successfully complete the course into which they were placed, they can apply to the Department of Modern Languages and Classics to receive credits for some courses that precede the course into which they were placed.

Members of the language faculty individually place International students who possess native competency in a language or United States citizens who are bilingual. These students normally do not receive credit for courses below the 300 level. These students should contact the Department of Modern Languages and Classics before attending summer orientation or before registering for a course in the language in which they have this competency.

In Mathematics

For those students who do not have credit for any college-level mathematics equivalent to a UA mathematics course, placement is determined by their ACT or SAT score in mathematics. If students are not pleased with their placement based on their ACT or SAT mathematics score, they may elect to take the UA Math Placement Assessment through the Office of Testing Services. The Math Placement Assessment may be taken twice.

In Music

Auditions determine placement in specific applied courses. Auditions should occur before freshman orientation and registration.

Changes in Student Course Schedules

While students may change schedules, it is important that students maintain at least 12 hours of coursework each fall and spring semester, and the recommendation is for 14-16 hours.

First-semester freshmen and first-semester transfer students who have not met the freshman composition requirement enroll in an appropriate English composition course and continue taking required English courses until the composition requirement is met. Students may not drop required freshman-level English courses. Students also may not withdraw from mathematics courses graded A, B, C or NC. These mathematics courses include:

MATH 005	Introductory Algebra	3
MATH 100	Intermediate Algebra	3
MATH 110	Finite Mathematics	3
MATH 112	Precalculus Algebra	3
MATH 113	Precalculus Trigonometry	3
MATH 115	Precalc Algebra & Trig	3

Students may drop or add courses during the late registration period at the beginning of each semester. Specific dates are given on the University of Alabama website.

A student may drop a course other than the English and mathematics courses listed above with a grade of W during the first 10 weeks of the fall and spring semesters.

After the tenth week of class, only under extraordinary and well-documented circumstances are students allowed to petition for special consideration to withdraw with a grade of W. Requests for late withdrawals are made to the Student Services Center in 200 Clark Hall.

The short summer terms permit a drop with a grade of W for two weeks.

Course Repeat

A course passed at any institution with a grade of A, B or C cannot be repeated at The University of Alabama, except as an audit.

A course passed at The University of Alabama with a grade of D may be repeated. A record of both the original and repeat enrollment appears on the student's transcript. With respect to hours and grade points applicable to degree requirements and honors-designation requirements in the college, each enrollment is counted in the cumulative hours attempted and cumulative grade points earned, but only the most recent enrollment counts in the cumulative hours applicable to the degree.

Audit

A student may audit one course per semester. Permission to audit may be obtained in the A&S Student Services Center, 200 Clark Hall, and the request to audit must be made before the end of the late registration period at the beginning of each semester. An auditor may not take the tests or the final examination in the course. A course that is taken as an audit may not be taken at a later date for credit.

Pass/Fail Option

The pass/fail option is designed to encourage students to explore areas of study outside the major and minor. A course taken pass/fail counts as elective credit only; it cannot be used to satisfy any specific requirement and does not count in the minimum number of hours required for the major or minor. University-wide pass/fail regulations are explained in the general information section of this catalog. To take a course pass/fail, students in the College of Arts and Sciences must receive approval in the A&S Student Services Center, 200 Clark Hall, before the end of the late registration period at the beginning of each semester.

Prerequisite Policy

The catalog and registration system provide information on the preparation necessary in order to enroll in a specific course. All 300-level courses in the College of Arts and Sciences have either a specific prerequisite course or have the expectation that the student will have junior standing (61 earned hours), or the permission of the instructor, in order to enroll.

Graduation

Each candidate for a degree must apply for degree through myBama in the semester immediately prior to the term in which he or she plans to graduate. For example, students who expect to complete degree requirements in May should submit the online degree application during the preceding fall semester. Those who expect to finish degree requirements in August or December should submit the application during the previous spring semester. In all cases, the deadline for submission of the form is the last day to register for the final semester in residence. Students who submit the application after registration for the final semester can expect the degree one term later. Degrees are awarded in May, August and December.

Major and Minor Programs of Study by Academic Departments

Department of American Studies

- American Studies major and minor

Department of Anthropology

- Anthropology major and minor
- Evolutionary Studies minor

Department of Art and Art History

- Art (studio) major (BA)
- Art (studio) major (BFA)
- Art (studio) minor
- Art History major and minor

Department of Biological Sciences

- Biology major and minor
- Microbiology (BMB) major and minor
- Computer-based Honors minor
- Natural Resources minor

Blount Undergraduate Initiative

- Blount Liberal Arts minor

Department of Chemistry

- Chemistry (BCh) major
  - Chemistry track
  - Biochemistry track
- Chemistry (BS) major and minor
- Computer-based Honors minor

Department of Communicative Disorders

- Communicative Disorders major and minor

Department of Criminal Justice

- Criminal Justice major and minor
- Sociology minor

Department of Economics, Finance and Legal Studies

- Economics major and minor

Department of English

- English major and minor
- Computer-based Honors minor
- Creative Writing minor

Department of Gender and Race Studies

- African American Studies major and minor
- Women's Studies minor

Department of History

- History major and minor
- Computer-based Honors minor

Department of Geography

- Geography (BA and BS) major and minor
- Environmental Science major
- Geographic Information Systems minor
- Interdisciplinary Environmental Studies minor

Department of Geological Sciences

- Geology (BA, BS and BSG) major and minor
- Computer-based Honors minor

Marine Sciences Program

- Marine Science/Biology major
- Marine Science/Chemistry major
- Marine Science/Geology major
- Marine Science minor

Department of Mathematics

- Mathematics major
  - Pure Mathematics track
  - Applied Mathematics, Scientific Computation track
  - Applied Mathematics, Classical track
  - Applied Mathematics, Optimization track
  - Applied Mathematics, Statistics track
  - Mathematics Education track
- Mathematics minor
- Mathematical Statistics minor
- Mathematics Education minor

Department of Modern Languages and Classics

- Foreign Language and Literature major
  - Classical Civilization track
  - French track
  - German track
  - Greek track
  - Latin track
- Foreign Language Credit Options
  - Chinese minor
  - French minor
  - General Business second major
  - German minor
  - Greek minor
  - Italian minor
  - Japanese minor
  - Latin minor
  - Russian minor
  - Spanish major and minor
- Comparative World Literature minor
- Critical Languages Program

New College

- New College (BA and BS)
- New College LifeTrack
- Civic Engagement and Leadership minor
- Student-designed minor

Department of Philosophy

- Philosophy major and minor
- Computer-based Honors minor

Department of Physics and Astronomy

- Physics major and minor
- Astronomy minor
- Computer-based Honors minor

Department of Political Science

- Political Science major and minor
- International Studies major and minor
- Public Policy Minor

Department of Psychology

- Psychology (BA and BS) major and minor
- Computer-based Honors minor

Department of Religious Studies

- Religious Studies major and minor
- Asian Studies minor
- Judaic Studies minor

School of Music

- Music, Bachelor of (BM)
  - Music Performance
    - Piano track
    - Organ track
    - Strings track
    - Winds and Percussion track

- Voice track
- Jazz Studies track
- Music Composition
- Music Theory
- Music Therapy

- Music (BA) major and minor
- Music (BA) with Arts Administration Concentration
- Music minor

Department of Theatre and Dance

- Dance major
- Theatre major and minor

Minors in Other Colleges

- Advertising minor
- Communication Studies minor
- Computer Science minor
- Computing Technology and Applications minor
- Consumer Sciences minor
- Engineering minor
- Entrepreneurship minor
- Food and Nutrition minor
- General Business Administration minor
- Human Development and Family Studies minor
- Journalism minor
- General Journalism
- Photojournalism
- Journalism Design
- Management minor
- Mathematics Education minor
- Public Relations minor
- Social Welfare minor
- Telecommunication and Film minor
- World Business minor

Faculty

Administrative Officers

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Carmen Burkhalter

Luoheng Han

Robert E. Hayes III

Beverly Roskos-Ewoldsen

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Don S. Hays

Ginger Duren Hudson

Chris D. Hutt

Wendy K. McMillian

Mallory Perkins

Nancy T. Shockley

Jeannie Thomley

James Vail

Ann Webb

African American Studies (AAST) Courses

AAST 100. "Call and Response": Exploring African American Cultural Experience. 1 sem. hr.
This course is designed to generate student interest and excitement in African American Studies by giving students opportunities to explore facets of African American cultural experiences. Following an interdisciplinary approach, this course will allow students to discover the rich diversity of African American cultural practices such as music, visual arts, literature, storytelling, dance, and religious practice. This course allows students at UA and UAB to experience the expertise of faculty from both institutions. It is also web-enhanced and has components on both UA's and UAB's BlackBoard systems for which UA and UAB students will access.

AAST 201. Intro African Amer Study. 3 sem. hrs.
A basic outline of the diversity and complexity of the African-American experience in the United States: the early academic and social concerns of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation and multiculturalism; and its major theoretical and critical debates.

AAST 202. African American Lives. 3 sem. hrs.
A cultural approach to African American lives, exploring the role of the individual, biography, and narrative in African American history and culture.

AAST 226. Themes from Africa to America. 3 sem. hrs.
An examination of the spread of religious life in the African America's emphasizing present institutions and practices; its African roots, its shape and function during slavery and its development from Emancipation to the present.

AAST 249. African-American Literature. 3 sem. hrs.
Survey of African American literature from its earliest expressions to the present. In order to identify the aesthetics of the African American literary tradition, the course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.

AAST 280. Rock, Soul & Country. 3 sem. hrs.
This course examines three dominant American popular music genres with particular emphasis on race, gender, class and region.

AAST 302. The Black Church. 3 sem. hrs.
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AAST 303. Education Of Southern Blacks. 3 sem. hrs.
A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AAST 319. 19th Century Black History. 3 sem. hrs.
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

AAST 320. 20th Century Black History. 3 sem. hrs.
The interrelationship of blacks and the industrial-urban environment of the United States.

AAST 321. African American Folk Art. 3 sem. hrs.
This course will focus on analysis of object, created by African Americans variously classified as folk, self-taught, outsider artists. Material will address African origins. American transformations of traditional arts and crafts.

AAST 340. Women in the South. 3 sem. hrs.
Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories, and novels written by and about women in the 19th- and 20th-century South.

AAST 341. African American Art. 3 sem. hrs.
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the women's movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AAST 350. Topics African American Lit. 3 sem. hrs.
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

AAST 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

AAST 395. Special Topics. 3 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 400. Gender & Black Masculinity. 3 sem. hrs.
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST 401. Black Intellectual Thought. 3 sem. hrs.
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.
Prerequisite(s): AAST 201 and AMS 201.

AAST 402. Special Topics. 3-9 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 413. Communication And Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency within this discipline is required for a passing grade in this course.

AAST 415. African American Rhetoric. 3 sem. hrs.
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.

AAST 435. Black Feminism. 3 sem. hrs.
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200.

AAST 436. Gender and Black Masculinity. 3 sem. hrs.
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST 488. Adv Study African-Amer Lit. 3 sem. hrs.
A special topics course that focuses on issues in African American literature.

AAST 490. AAST Independent Study. 1-6 sem. hr.
Independent study on any subject pertaining to African-American studies, under the supervision of a professor in the chosen field and/or Director of the program.

AAST 495. Special Topics. 3 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.
Prerequisite(s): AAST 201.

American Studies (AMS) Courses

AMS 100. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduate students offered by American studies faculty members or supervised teaching assistants. Some examples include the following five-week, one-hour courses: African-American Star Ahtletes, Superbowl Ads, Stand Up Comedy, Disney's America, and Why Eat Local?

AMS 101. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 102. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 103. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 104. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 105. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 106. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 150. Introduction to American Studies: Arts and Values. 3 sem. hrs.
Exploration of the relation between the arts – popular, folk, and elite – and American culture in four selected periods: Victorian America, the '20s and '30s, World War II and the Postwar Era, and the '60s. Class presentations and discussions revolve around novels, movies, art, music, artifacts, and readings about the periods. This course is team taught by all the members of the American studies faculty. Offered fall semester.

AMS 151. Intro American Studies: Globalization, Nationalism, and Regionalism. Nation regions 3 sem. hrs.
World, Nation, Regions. A broad survey of American culture formed by global, national, and regional influences. The first section, "World," looks at the United States as a product and shaper of international movements, ideas, and cultures from 1500 to the present. The second section, "Nation," examines the creation of a distinctly American identity between 1790 and 1890 that ultimately incorporated and reflected global issues. The third section, "Regions," focuses on the South and other regions as contributors to and consequences of national and global interactions. Team taught by the entire AMS faculty, lectures will include topics on film, music, literature, art, sports, and other cultural artifacts. Offered spring semester.

AMS 155. Freshman Seminar. 3 sem. hrs.

AMS 200. Special Topics Amer Stud. 3 sem. hrs.
Selected American topics for lower-division undergraduate students offered by AMS faculty members or Americanists from related departments. Recent examples include The Asian-American Experience, The American Road, The Sporting Life, Baseball Since 1945, and Twilight Zone Culture. May be repeated for a maximum of 12 hours.

AMS 201. Intro African Amer Study. 3 sem. hrs.
This course provides a basic outline of the diversity and complexity of the African American experience in the United States. It surveys the early academic and social concern of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation, and multiculturalism; and its major theoretical and critical debates.

AMS 202. African American Lives. 3 sem. hrs.
A cultural approach to African American lives, examining how the selected course texts express the formation of individual identity and how it is influenced by African American culture. The role of the individual, biography, and narrative in African American history and contemporary culture will be explored. The course draws upon a variety of texts, including historical and theoretical work, visual arts, music, literature, material culture, and documentary and feature films.

AMS 203. Introduction to Southern Studies. 3 sem. hrs.
This discussion-based course introduces students to major texts and interdisciplinary methodologies in the field of Southern Studies. Traversing epochs from before the Civil War until after the Civil Rights Movement, we will scrutinize the interplay between course materials (autobiographies, fictional texts, historical accounts, and films) and major political, cultural, and social forces influencing the region and the nation.

AMS 204. Introduction to Western American Studies. 3 sem. hrs.
A lecture/discussion course utilizing a biographical approach to the salient themes, issues, and episodes of the American West. Some of these lives are real, some of them imagined, and others are a little of each. All of them, however, reveal much about both region and nation and how each has changed over time.

AMS 205. Dirty Jobs. 3 sem. hrs.
This course explores jobs that get you "dirty." Work is one of the aspects that most shapes individual lives, and many lines of work are viewed as dangerous, dirty, or somehow unsavory by American society. This course uses films, TV shows, written narratives, and music to explore different types of "dirty" work in the United States.

AMS 208. Rock, Hip-Hop and Country. 3 sem. hrs.
This class will offer an introduction to popular music that young Americans used, for two generations, to root their aesthetics, center their values, and test their ethical allegiances. Students will look at enduring and innovative music, but also trained to understand the contexts that have shaped how that music was both produced and consumed. In popular music, the line between artist and audience is inevitably blurry. Few forms of culture have been so fundamental in shaping what scholars call “affective alliances”—the way, when rhythms fill our bodies and voices fill our heads, we find others who share those passions, and the way they guide how we speak, dress, act cool, and just generally move through the world. 3.

AMS 222. Modern Gay America. 3 sem. hrs.
This course will focus on the emergence of the GLBT community in 20th century American Culture. We will look at the many ways GLBT identity developed in the 20th century by exploring the intersections of science, religion, popular culture, politics, and urbanization on GLBT people. Because the experience of GLBT individuals is so varied, we will use a variety of media to create patterns and connections within this diverse community.

AMS 231. Contemporary America. 3 sem. hrs.
This course has two principal objectives. Students will analyze the changing nature of American cultural values for the period dating from the early 1970s to the present. By placing materials drawn from literature, film, the visual arts, music, and popular culture within broader social and historical contexts, students will examine key developments in the everyday life patterns and cultural expressions of Americans in contexts that range from the local to the international. In addition, the course will familiarize students with a sampling of the interdisciplinary methodologies applicable to work in the field of American studies (e.g., analysis of images and primary documents, oral history, and ethnography). Offered fall semester.

AMS 232. Contemp. America in Music. 3 sem. hrs.
This course uses music and culture to analyze the changing nature of American values after the 1960’s and introduces interdiscplinary research methods.

AMS 251. American Folklore. 3 sem. hrs.
Survey and analysis of such genres of American vernacular expression as legends, ghost tales, humor, music, and sermons as they express and shape particular regional and/or ethnic American identities. Course materials include ethnographic writing, sound recordings, film, and folklore scholarship. Attention also given to the competing and sometimes contradictory definitions of “folk” culture from the 19th century to the present.

AMS 271. Film & American Culture. 3 sem. hrs.
Interdisciplinary investigation of American culture through motion pictures, film history, and relevant cultural/historical documents. Focus on the ways in which films have reflected and influenced prevailing American attitudes and values. Variable focus on a specified theme, genre, or representations of a particular American region.

AMS 300. Special Topics. 3 sem. hrs.
Selected American topics for advanced undergraduate students, offered by American Studies faculty members or Americanists from related departments. Recent examples include American Hobo Subculture, World War II and Modern Memory, Women’s Liberation Movement, Justice and Civil Society, Southern Sexual Cultures, and Cultures of American Slavery. May be repeated for a maximum of 12 hours.

AMS 302. The Black Church. 3 sem. hrs.
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AMS 303. Education Of Southern Blacks. 3 sem. hrs.
A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AMS 306. Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 315. United States Labor Since 1865. 3 sem. hrs.
Examines the history of workers - men and women, paid and unpaid, of different racial and ethnic groups, in different regions of the United States - from 1865 to the present.

AMS 316. Labor on Film. 3 sem. hrs.
This course examines the ability of film to successfully portray the history of labor in the US and how present events and attitudes shape portrayals of past events.

AMS 318. Amusement and Tourism. 3 sem. hrs.
The course explores varied forms of leisure culture that emerged in the 19th century and exploded in popularity throughout the 20th century. The course examines leisure culture as a vibrant component of American social, economic, and aesthetic history. Using travel narratives and fictional works, along with historical critiques, art, and other popular culture documents, the course explores Americans as they tour the nation, take vacations, and seek amusement. The course provides a framework for understanding the centrality of leisure as it has influenced how Americans see themselves and their national character.

AMS 320. American Popular Humor. 3 sem. hrs.
This course explores major writers, performers, works, and themes of American humor that have achieved enduring popularity among mass audiences. It examines the social and historical contexts that reverberate in humor produced in the United States and focuses on three persistently popular mediums: prose and performance; film; and the television situation comedy.
Prerequisite(s): 6 SH American Studies or equivalent courses or permission of instructor.

AMS 321. African American Folk Art. 3 sem. hrs.
An examination of the objects created by African Americans variously classified as "folk," "self-taught," and "outsider" artists. Course material will address the African origins and American transformations of traditional arts and crafts (architecture, pottery, iron work, and quilting) as well as the work of selected 20th-century artists in such media as painting, sculpture, and assemblage. Key concerns will include not only analysis and cultural/historical contextualization of these artists and their works but also political and theoretical debates with respect to issues of collection, modes of exhibition, and use of the above-listed classifications.

AMS 325. America West And 19th Century. 3 sem. hrs.
Few things remained so central to the 19th American century experience as the West, a region to be explored, inhabited, and incorporated into an expanding urban-industrial society. From Lewis and Clark to Buffalo Bill, this lecture/discussion course examines the relationship between America and the West as it developed throughout the 19th century.

AMS 326. The Modern West. 3 sem. hrs.
This lecture/discussion course examines the growth of the American West during the 20th century as both the embodiment of modernity and, as mythic imagination, an escape from the very modernity it represents.

AMS 331. Writer & Artist In America. 3 sem. hrs.

AMS 332. Popular Culture In Amer. 3 sem. hrs.

AMS 335. American Pop Music. 3 sem. hrs.
Recent scholarship has shifted popular music history from folk roots and rock rebellion to pop: commercial, accomodating, but no less fascinating amalgamations. This class will range from blackface mistrelsy in the 1800s to American Idol today, defining mainstreams rather than undergrounds. Pop music performed capitalism, but it also performed democracy. Sorting out that process will be the task.

AMS 340. Women In The South. 3 sem. hrs.
What insights into American experience are afforded by reading nineteenth- and twentieth-century texts in which Southern women engage questions of gender, class, race, labor, and region? This class will explore fictional and nonfictional prose by and about Southern women in order to examine how historical, cultural, and sociopolitical factors have shaped the lives and writings of women in the South. Writing proficiency within this discipline is required for a passing grade in this course.

AMS 341. African American Art. 3 sem. hrs.
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the Women's Movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AMS 351. American Music Theatre History. 3 sem. hrs.
This course provides you with a review of the historical genres, circumstances and catalogue of material that developed the american musical theatre from its ministrel beginnings to the multi-million dollar spectacles of today.

AMS 364. The Beatles Era. 3 sem. hrs.
Interdisciplinary investigation of American culture from the Kennedy assassination in 1963 to the Kent State University massacre in 1970 using the popular cultural explosion of the Beatles as a prism that informs the whole.

AMS 367. The American Game. 3 sem. hrs.
Lecture topics, readings, and classroom discussions will pursue major connections between baseball and American society from 1880 to the present: (1) the modernization of America and the rise of an urban, industrial game; (2) baseball and race; and (3) postwar America and baseball.

AMS 400. Internship. 1-3 sem. hr.
An internship opportunity that combines independent study and practical fieldwork experience focusing on a particular problem or topic related to American culture and experience. Examples are internships in archival fieldwork, material culture fieldwork, museum management, and sound recordings. Credits earned in this course are applicable to the major and minor in American studies but are not counted in 400-level requirement. May be repeated for a maximum of 6 hours.

AMS 401. Black Intellectual Thought. 3 sem. hrs.
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.

AMS 402. Special Topics. 3 sem. hrs.
Selected African American topics for advanced undergraduate students. May be repeated for a maximum of 12 hours.

AMS 403. Honors Research - Ams. 3 sem. hrs.
Internship opportunity that combines guided and independent study with on- or off-campus research experience involving a particular methodological approach to American culture and experience. Examples are social science methods, oral history, original manuscript research, and technology.

AMS 405. Directed Study. 1-3 sem. hr.
May be repeated for a maximum of 6 hours.

AMS 406. Directed Study. 1-3 sem. hr.

AMS 407. Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 412. On The Road. 3 sem. hrs.
This course seeks to introduce the breadth and power of the travel culture that defines "America" and examines enduring features when writers take to the open road in America. Writing proficiency within this discipline is required for a passing grade in this course.

AMS 415. Service Learning. 3 sem. hrs.
Course examines immigrant journey and life in American South to gain an understanding of historical and contemporary issues through research and service.

AMS 416. American Environmental Thought in a Global Context. 3 sem. hrs.
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization. Using accounts from various regions, the course explores evolving conceptions of nature and justice, competing claims about race and class, and changing institutional responses and remedies to environmental degradation in the context of global change. The course is highly interactive, inviting critical thinking about the human place in the physical world.

AMS 421. Writer & Artist in America. 3 sem. hrs.
An examination of the changing social and cultural background of American writers and artists during the 19th and 20th centuries. Topics will include the definition of the developing role of the artist in American culture, and assessment of the American and European influences on artists, and an appraisal of the influence of artists on American culture. Painting, literature, music, photography, and architecture are among the arts dealt with.

AMS 422. Popular Culture in America. 3 sem. hrs.
Survey and analysis of 20th century US popular culture including social context and how it has reflected and shaped American society, including gender, race, class and region.

AMS 423. The Roots of American Music . 3 sem. hrs.
This class surveys American music from ragtime, blues, and hillbilly to Broadway, Hollywood musicals, and swing jazz. Our focus will be on commercial mainstreams and democratic audiences – how selling sound led to different identities being expressed through taste and style. Race, gender, class, sexuality, age, technology, and the music business will all factor as we move from blackface minstrelsy in the 1800s to World War II. We will listen closely to several songs each week, connecting music to larger themes through primary and secondary sources, regular writing, and in-class discussion.
Prerequisite(s): 9 SH American Studies or related courses or permission of the instructor.

AMS 429. America between the Wars. 3 sem. hrs.
Explores first two decades of America's "Modern Times" (1919-1941) when Americans redefined themselves and their society embracing and debating (sometimes hotly) old beliefs, new conceptions, and the implications of a machine-driven, modern-mass society.

AMS 430. Special Topics. 3 sem. hrs.
Selected American topics for advanced undergraduate majors in American studies, offered by American Studies faculty members or Americanists from related departments. May be repeated for a maximum of 6 hours.

AMS 439. Urban Spaces: The Nature of Cities. 3 sem. hrs.
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present. Course readings include classical scholars in urbanism and urban design. Contemporary urban environmental histories explore population shifts and land use along the urban gradient from the suburbs to urban centers, with attention to water, sewer, and transportation infrastucture,pollution, and urban sprawl.

AMS 445. The "Good War". 3 sem. hrs.
Examination of selected topics from the American experience during the Second World War. Topics include the Homefront, the Holocaus, race relations, the emergence of American air power, and the impact of the war on American memory and postwar American society.

AMS 446. Gender and Environment. 3 sem. hrs.
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform. Texts include histories of environmental conceps and reform campaigns, broadly conceived, including slave narratives, accounts of experiences in the women's club movement, the conservation movement, and Progressive Era occupational and public health reform, along with more well-known twentieth centruy nature writers, contemporary scholars, and activists. Particular attention is paid to women whose identities are defined in part by their status as immigrants, women of color, or in other marginalized categories. Case studies explore global environmental reform as well as U.S. experiences.

AMS 460. Race & Ethnicity in US Labor. 3 sem. hrs.
This course is designed to familiarize students with the important topics, themes, and methodologies in the study of race and ethnicity in U.S. labor. Throughout the semester, the class will examine the lives of working women and men and their roles in the social, political, and economic development of the United States. The class will analyze the roll of gender, race, and ethnicity at home and in the workplace and examine how scholars have studied the people, events and institutions in this field.

AMS 465. Fictions of American Identity. 3 sem. hrs.
An examination of American literature and culture from before the Civil War until after the Civil Rights Movement. Representations of American experience in essays, novels, poems, short stories, social reformist tracts, and the visual arts will be studied in the context of social and political debates over slavey, national identity, women's roles, immigration and assimilation, social mobility, urbanization, sexual mores, consumer culture, and race relations.

AMS 470. Native-Whites to 1830. 3 sem. hrs.
This course will focus on the complex and intertwined relationships between Native Americans and white peoples: how each challenged, adapted to, and retreated from the other up to 1830. The class will assess: colonial encounters among Native Americans, Spanish, French, and English; the meanings of white captives among the Indians; crossing over into different cultures and transforming identities in the new nation; and the impact of forced removal of Indians.

AMS 476. Constructing the American Rev. 3 sem. hrs.
From the Declaration of Independence to the Civil War, Americans have continually tried to provide narrative shape and cultural significance to their national orgins. Through the analysis of primary and secondary sources (political tracts, art works, histories, biographies, fiction, and other artifacts), this course will explore the relationship between the eighteenth-century revolutionaries' and their ninetheenth-century heirs' cultural construction of the Revolution. Simply put, this course is about how people in the past have thought about their own past.

AMS 480. Democracy in America. 3 sem. hrs.
Using Tocqueville's observations and fiction, autobiography, painting and politics the course examines how American's present themselves as a democractic people from 1800-1830.

AMS 485. American Exper 1620-1865. 3 sem. hrs.

AMS 486. American Exper 1865-1960. 3 sem. hrs.

AMS 491. American Period Seminar. 3 sem. hrs.
In-depth study of a particular period or era in American historical experience. Recent examples include the Ragtime Era, the Jazz Age, the Great Depression, the Season of 1954-55, the '60s, Contemporary America, the Romantic Revolutionaries (1905-14), the Postwar Era, American Avant Garde, the South and '30s Expression, the Civil Rights Movement, the American '20s, the '50s, America between the Wars, the Colonial Period, the Aspirin Age, Postmodern America, Contemporary America, and Writing West.

AMS 492. American Topic Seminar. 3 sem. hrs.
Study of special topics within the American cultural experience. Recent examples include American Thought, Sports in American Life, American Perspectives on the Environment, the Civil Rights Movement, the Picture Press, Music and Ethnicity, the Politics of Culture, Regionalism, Homelessness in America, American Autobiography, American Monuments, Southern Popular Culture, Politics and Culture, Historical Memory, America by Design, Women in America, Race in America, 19th-Century Popular Culture, and Disasters in America.

Anthropology (ANT) Courses

ANT 100. Intro To Anthropology. 3 sem. hrs.
Introduction to the study of man from an anthropological perspective. Contributions to understanding man from the humanities, as well as the biological, social, and historical sciences are considered.

ANT 102. Intro Cultural Anthropology. 3 sem. hrs.
Introduction to the study of contemporary cultures and societies and the linguistic components of human behavior.

ANT 103. Discoveries In Archaeology. 3 sem. hrs.
This course deals with the major archaeological discoveries made in the past two centuries and their impact on Western thought.

ANT 106. Indians Of North America. 3 sem. hrs.
Comprehensive overview of the prehistory, history, and contemporary culture of native North American Indians.

ANT 107. Intro To Archaeology. 3 sem. hrs.
Overview of the methods archaeologists use to study prehistoric cultures and an introduction to the study of human culture over the past two million years.

ANT 113. Indians Of Deep South. 3 sem. hrs.
Introduction to the Native Americans of Alabama and their nearby neighbors. Focuses on describing and explaining lifeways of indigenous peoples using ethnographic, ethnohistoric, and archaeological studies.

ANT 150. Evolution for Everyone. 3 sem. hrs.
This course is designed to open students minds to what evolution is and how it applies to all life. Toward that end, we will view lectures given by evolutionary scholars from varied institutions and disciplines.

ANT 155. Freshman Seminar. 3 sem. hrs.

ANT 208. Anthropology of Sex. 3 sem. hrs.
This course is an introduction to human sexuality from a biocultural perspective with emphases on sexual diversity and pluralism and psychosexual evolution. It traces the evolution of human sociosexual behavior, including human sexual physiology, preproductive strategies; contemporary courtship, mating and marital patterns; gender differences in the brain and behavior; and sexual and social emotions. It compares the sexuality of humans to non-humans, especially to that of other primates. It also discusses human sexuality from the perspective of different cultures throughout the world. Among other topics, the course will address the psychobiocultural dimensions and implications of attraction, fidelity sex techniques, gender, incest, homosexuality and transexuality and sexually transmitted diseases.

ANT 210. Language And Culture. 3 sem. hrs.
Human activity in its linguistic, cultural, and social contexts; interrelationships between culture and natural language; and the influences of language and culture on thought and behavior.

ANT 215. Anthropology in Movies and Fiction. 3 sem. hrs.
Compares portrayals of anthropologists and core anthropological issues in movies and fiction to anthropological perspectives and scholarship.

ANT 250. Issues in Anthropology. 3 sem. hrs.
This course is a flexible listing designed to cover specific topics in anthropology not already offered through an existing course. It is similar to ANT 450 Problems in Anthropology, but allows students with less exposure to ANT or the particular issues addressed an opportunity to learn more at a more introductory level.

ANT 269. Field Archaeology. 6-12 sem. hrs.
Supervised participation in the excavation and analysis of archaeological deposits.

ANT 270. Intro To Physical Anthropology. 3 sem. hrs.
Introduction to the study of human biological and cultural evolution.

ANT 275. Race, Ethnicity Human, and Variation. 3 sem. hrs.
Historical and contemporary perspectives on human biological diversity, including the concepts of race, ethnicity, adaptation, and some of the social implications of these views.

ANT 311. Population, Health & Human Origin. 3 sem. hrs.
Focuses on the relationships among human ecology, population growth, health and disease, and adaptation in modern and prehistoric societies. Explores the origins of infectious diseases, emphasizing the principles of epidemiology and evolution of pathogens.
Prerequisite(s): ANT 100 or permission of the instructor.

ANT 312. Non-Human Primates. 3 sem. hrs.
This course is an introductory survey of the world's living non-human primates. The focus is on the taxonomy, anatomy, behavior, ecology and cognition of our closest living relatives. It is intended both as a starting point for further coursework in primate behavior and as a survey course for non-science students.
Prerequisite(s): ANT 100 or ANT 270 or permission of the instructor.

ANT 317. Anth-Modern Life. 3 sem. hrs.
Application of anthropological theories and findings to selected issues and problems of living in complex industrialized societies. Offered according to demand.
Prerequisite(s): ANT 100 or ANT 102.

ANT 318. Ancient Cities & Empires. 3 sem. hrs.
A comparative study of ancient cities and empires with examples from the Old and New Worlds.
Prerequisite(s): ANT 100 or ANT 103 or ANT 107.

ANT 319. Ancient New World Civilization. 3 sem. hrs.
An introduction to the ancient civilizations of Mesoamerica and South America. Explores the development of economic and political institutions as well as hieroglyphic texts, art styles, and religious rites.
Prerequisite(s): ANT 107 or permission of the instructor.

ANT 368. Southeastern Archaeology. 3 sem. hrs.
Origin and development of pre-Columbian and early historic cultures of the Southeast. Offered according to demand.
Prerequisite(s): ANT 107.

ANT 401. Linguistic Anthropology. 3 sem. hrs.
Scientific study of natural language – phonology and grammar, lexicon and meaning – and the role of linguistics in anthropological research. Offered according to demand.

ANT 402. Gender Ethnicity & Health. 3 sem. hrs.
Explores the gendered, ethnic, cultural, and class dimensions of sickness worldwide, with attention to the long-term health effects of sexism, racism, and poverty.

ANT 405. Culture Mind And Behavior. 3 sem. hrs.
Cultural and linguistic basis of cognitive organization, systems of folk classifications, and collection and analysis of data of shared cultural and social information. Offered according to demand.

ANT 408. Ancient Mexican Civilization. 3 sem. hrs.
Survey of the origins and development of ancient civilizations in Mexico.
Prerequisite(s): ANT 107.

ANT 409. Ancient Maya Civilization. 3 sem. hrs.
Ancient Maya civilizations in Mexico and Central America from the earliest inhabitants until the Spanish Conquest.
Prerequisite(s): ANT 107.

ANT 411. Culture Health & Healing. 3 sem. hrs.
Survey of health, illness, and healing among and within different cultural systems.

ANT 412. Peoples Of Europe. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of European societies. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 413. Peoples Of Latin Amer. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of Latin American societies.

ANT 414. Peoples Of Africa. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of African societies.

ANT 417. Peoples Of South Asia. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of South Asian societies.
Prerequisite(s): ANT 100 or ANT 102.

ANT 418. Dev Non-West Cultures. 3 sem. hrs.
Theoretical and descriptive study of social change and development in non-Western societies. Major emphasis is placed on the effects of change on indigenous institutions. Both ethnographic and theoretical literature are examined. Offered according to demand.

ANT 419. Myth Ritual And Magic. 3 sem. hrs.
Survey of the anthropological literature on religion, including such topics as myth, ritual, magic, witchcraft, totemism, shamanism, and trance states. Offered according to demand. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 102 or REL 100.

ANT 421. Ethnography. 3 sem. hrs.
Students work with University Libraries to develop research to address on going changes in information technology and the impact of such changes for UA students. Emphasizes the research design process as practiced by professional, applied anthropologists, including communicating roles and expectations with client stakeholders, developing testable hypotheses, operationalizing variables, and determining project scope, timeline, and budget.
Prerequisite(s): 12 hrs of Anthropology or permission from instructor.

ANT 423. Legal Anthropology. 3 sem. hrs.
Overview of legal systems and practices worldwide, with a focus on current issues of cross-cultural importance.

ANT 424. Cultural Resource Management. 3 sem. hrs.
The theory and strategies of, and processes for, undertaking research within the legal and practical setting of CRM-driven archaeology.

ANT 426. Archaeology of East North America. 3 sem. hrs.
Examination of the origins and developments of pre-Columbian and early historic cultures of eastern North America.
Prerequisite(s): ANT 107.

ANT 431. Readings In Anth. 1-3 sem. hr.
Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 432. Readings In Anthropology. 1-3 sem. hr.
Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 436. Social Structure. 3 sem. hrs.
Social organization and structure, social life and institutions (especially in non-literate societies), kinship, descent groups, marriage, residence, and local group composition. Offered every third semester.
Prerequisite(s): ANT 100 or ANT 102.

ANT 438. Anthropology of Art. 3 sem. hrs.
The course views the art that societies past and present produce; it explores culture, creativity, and human beings' distinctive compulsion to make decorative objects.
Prerequisite(s): ANT 102.

ANT 439. Topics Anthropology Religion. 3 sem. hrs.
An examination of contemporary issues and topics in the anthropology of religion.

ANT 440. Culture. 3 sem. hrs.
A selective review of past and contemporary concepts, theories, and methodological approaches adopted by cultural anthropologists. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 441. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Application and permission of instructor required.

ANT 442. Documenting Justice II. 3 sem. hrs.
Continuation of ANT 441.
Prerequisite(s): ANT 441.

ANT 444. Anthropology And Cemeteries. 3 sem. hrs.
Using approaches developed in the discipline of anthropology and, more particularly, in the subfield of archaeology, an exploration of the different ways in which local cemeteries can yield information on cultural, societal, and historical matters. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 445. Historical Archaeology. 3 sem. hrs.
Combines the methods used in historical archaeology with a basic survey of the archaeological record of the historic period of North America.

ANT 450. Probs In Anthropology. 3 sem. hrs.
Devoted to issues not covered in other courses. May be repeated for a maximum of 6 hours.

ANT 451. Undergraduate Research. 1-6 sem. hr.
Introduction to independant anthropological research with a focus on constructing testable hypotheses, selecting variables, measuring attributes, recording data, making interpretations and writing and presenting results.

ANT 460. Anthro Natural History Museums. 3 sem. hrs.
Examines the historical connections between anthropology and natural history museums in the United States. Explores the present operation of such museums and develops exhibits based on collection studies.

ANT 465. Lithic Analysis. 3 sem. hrs.
Introduction to the basics of analysis of stone tools, their manufacture, and their use by means of microscopic and macroscopic approaches.

ANT 466. Laboratory Methods Archaeology. 3 sem. hrs.
Instruction in the laboratory processing, classification, and elementary data manipulation of archaeological materials.

ANT 467. Methods Prehistoric Iconography. 3 sem. hrs.
An exploration of the concepts and methods used by prehistoric archaeologists to impute meanings in representational art.

ANT 471. Fossil Humans and Evolution. 3 sem. hrs.
Survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution. Offered according to demand.
Prerequisite(s): ANT 270.

ANT 473. Human Osteology. 4 sem. hrs.
Detailed introduction to human osteology emphasizing the identification of fragmentary remains and the criteria for determination of age, sex, and race. Two hours lecture, two hours laboratory. Offered according to demand.
Prerequisite(s): ANT 270.

ANT 474. Neuroanthropology. 3 sem. hrs.
This course provides an introduction to evolutionary and biocultural approaches within anthropology to the central and peripheral nervous systems and their interconnections. Topics include the evolution of the brain; how culture and social structure shape the brain, its development, and its activity; and anthropological perspectives on connections among culture, behavior, brain, mind, and body.
Prerequisite(s): ANT 270 or BSC 300 or PY 413.

ANT 475. Biology, Culture & Evolution. 3 sem. hrs.
An introduction to the biocultural and evolutionary bases of human adaptability. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 270.

ANT 476. Nutritional Anthropology. 3 sem. hrs.
Introduction to anthropological inquiries in nutrition (including food habits, food systems, and dietary variability) from a cross-cultural perspective. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 478. Anthro of Human Development. 3 sem. hrs.
Health culturally competent socialized adults and mature physical forms arise from a developmental process with evolutionary, biological, social and cultural dimensions. We survey child/human development from an anthropological perspective, considering interactons across levels of analysis from genes to culture.
Prerequisite(s): ANT 270.

ANT 479. Human Paleopathology. 3 sem. hrs.
Course investigates skeletal pathology and trauma. Topics included: 1. Understanding disease processes, 2. Distinguishing accidental and violent trauma on bone, 3. Recognizing the following conditions in skeletal remains: congential anomalies, circulatory disorders, joint diseases, infectious diseases, metabolic diseases, skeletal dysplasias, neoplastic conditions, diseases of the dentition and other conditions. Students will inventory, evaluate and analyze sets of human skeletal remains for pathology and trauma and complete final reports on those remains.
Prerequisite(s): ANT 270.

Arabic (ARB) Courses

ARB 101. Elementary Arabic. 4 sem. hrs.
Modern Standard Arabic students will learn the spoken and written language. This course meets five hours per week with an instructor.

ARB 102. Elementary Arabic. 4 sem. hrs.
Course is a continuation of ARB 101 in which the student will learn the spoken and written language meeting five hours a week with an instructor.
Prerequisite(s): ARB 101.

ARB 201. Intermediate Arabic. 3 sem. hrs.
Continuation of Arabic language on the intermediate level. Students who already have basics of Arabic speaking, writing and reading will develop their skills further. The class meets three hours per week.
Prerequisite(s): ARB 102.

ARB 202. Intermediate Arabic. 3 sem. hrs.
Continuation of ARB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without the permission of the CLC director.
Prerequisite(s): ARB 201.

Art History (ARH) Courses

ARH 151. Intro To Visual Arts. 3 sem. hrs.
Not applicable to the studio or art history majors or minors. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.

ARH 252. Survey Of Art I. 3 sem. hrs.
Survey of major examples of painting, sculpture, and architecture from the prehistoric through the medieval periods.

ARH 253. Survey Of Art II. 3 sem. hrs.
Survey of major examples of painting, sculpture, and architecture from the Renaissance through the modern periods.

ARH 254. Survey Of Art III. 3 sem. hrs.
Survey of major examples of painting, sculpture, and the applied arts of India, China, Korea, Japan, and Southeast Asia.

ARH 291. Special Projects. 3 sem. hrs.
This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.

ARH 351. Ancient Art. 3 sem. hrs.
A survey of the contributions of Egypt, Greece, and Rome to the development of Western architecture, sculpture, and painting.

ARH 352. Early Christian Byzantine Art. 3 sem. hrs.
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in the Early Christian West and the Byzantine Empire 312-1453 CE. Attention will be paid to major styles/developments with reference to relevant social, political, religious, historical and technical issues.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 360. Early Medieval Art. 3 sem. hrs.
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in Western Europe between 500-1150 CE. Beginning with backward glances at Roman traditions, special attention is focused on works of art representative of major styles/developments during the focus period with reference to relevant social, political, religious, historical and technical issues.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 361. Late Medieval Art. 3 sem. hrs.
This course considers major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in western Europe between 1100-1350. Beginning with backward glances at earlier visual traditions, attention will be focused on themes including the “Gothic”; ecclesiastical architecture and engineering; artists and their training; book arts and manuscript production; reliquaries and the art of devotion; magnificence at court; crusader art; personal and familial commemoration; and women as patrons and artists. Relevant social, political, religious, historical and technical issues will be addressed in conjunction with these themes.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 363. Masterpieces Of Spanish Art. 3 sem. hrs.
Selected monuments of peninsular Spanish art from the prehistoric period to the contemporary period.

ARH 364. Renaissance Art. 3 sem. hrs.
Survey of 15th- and 16th-century painting, sculpture, and architecture in Europe.

ARH 365. Northern Renaissance Art. 3 sem. hrs.
The art of Flanders and Germany in the 15th and 16th centuries.

ARH 367. Art Patronage Florence. 3 sem. hrs.
Survey of the art of Florence emphasizing the artists and the patrons, such as the religious orders, guilds, and private families who created the Renaissance style in painting, sculpture, and architecture.

ARH 368. Early Renaissance Art. 3 sem. hrs.
This course provides students with a survey of painting, sculpture and architecture during the early Italian Renaissance in major city centers, concentrating on knowledge of major monuments and artists. Attention will be focused on fourteenth-century traditions, fifteenth-century developments, and major themes important to study of the period (technical innovations, the inheritance and influence of antiquity, the status of the artist, religious and political symbolism, the requirements of patrons and the market, and the impact of social conditions and historical events).
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 369. Later Italian Renaissance Art. 3 sem. hrs.
This course provides students with a survey of painting, sculpture and architecture in the later Italian Renaissance (c. 1480-1580) in major city centers, concentrating on knowledge of major monuments and artists. Beginning with backward glances at the fifteenth century, attention will be focused on sixteenth-century developments and major themes important to study of the period (including Mannerism, the status of the artist, and the impact of religious change on works of art), thus encouraging students to have a long-range view of the traditions behind the focus works.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 371. Baroque Art South Europe. 3 sem. hrs.
Survey of painting, sculpture, and architecture in 17th-century Italy, Spain, and France. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 373. Baroque Art North Europe. 3 sem. hrs.
Survey of the art of 17th-century Belgium and Holland, with emphasis on the work of Rubens, Rembrandt, and Vermeer. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 375. Nineteenth Century Art. 3 sem. hrs.
Painting and sculpture from the Neoclassical through the Post-Impressionist periods.

ARH 376. American Architecture. 3 sem. hrs.
American architecture from the colonial period to the 20th century.

ARH 377. American Painting & Sculpture. 3 sem. hrs.
American painting and sculpture from the colonial period to the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 378. Art of the African Diaspora. 3 sem. hrs.
This course examines the work of contemporary artists from the African Diaspora produced since 1990, with an emphasis on those associated with the United States. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 381. Art Since World War II. 3 sem. hrs.
Modernist and postmodernist art and architecture from the mid-20th century to the present.

ARH 385. Early 20th Century Art. 3 sem. hrs.
Painting and sculpture from Impressionism to World War II.

ARH 400. Photographic Discourse. 3 sem. hrs.
Study of the history of photography and ideas about photographic practices. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 455. Topics In Asian Art. 3 sem. hrs.
Selected topics in the art of China and Japan.

ARH 456. The Arts Of Buddhism. 3 sem. hrs.
Major movements and styles inherent in the artistic products of India, China, Japan, Southeast Asia, Tibet, and Nepal.
Prerequisite(s): ARH 254 and ARH 355 or ARH 356.

ARH 467. Topics Renaissance Art. 3 sem. hrs.
Selected artists, monuments, and patrons of the Renaissance and the Mannerist period.

ARH 481. Topics 20th Century Art. 3 sem. hrs.
Study of selected themes in modern and contemporary art. May be repeated for a maximum of 12 hours.

ARH 491. Independent Studies. 3 sem. hrs.

Art, Studio (ART) Courses

ART 110. Drawing I. 3 sem. hrs.
Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

ART 130. Design I. 3 sem. hrs.
Introductory course that explores two-dimensional concepts in a variety of processes and media.

ART 131. Design II. 3 sem. hrs.
Introductory course that explores three-dimensional concepts in a variety of processes and media.

ART 153. Digital Creativity. 3 sem. hrs.
This course explores personal creativity while surveying creative practice from early 20th century to today with an emphasis on technology-based art and music.

ART 208. Special Projects. 3 sem. hrs.
Topics not taught in the regular curriculum. May be repeated for a maximum of 9 hours.

ART 210. Drawing II. 3 sem. hrs.
Continuation of Drawing I with emphasis on creative development of visual ideas using traditional and experimental techniques and media.
Prerequisite(s): ART 110.

ART 212. Ceramics. 3 sem. hrs.
Completion of ART 110, ART 130, and ART 131 is recommended before taking this course. Exploration of ceramics media and processes with emphasis on the development of individual concepts.

ART 216. Painting. 3 sem. hrs.
An introductory course designed to strengthen the individual student's awareness of the history and techniques of the craft of painting while exposing the student to contemporary styles and ideas of painting.
Prerequisite(s): ART 110 or ART 130.

ART 218. Photography. 3 sem. hrs.
Study of photography and photographic processes employed as creative media. Basic black-and-white processing and printing.
Prerequisite(s): ART 110 or ART 130.

ART 220. Printmaking. 3 sem. hrs.
Survey of printmaking processes including intaglio, relief, screen print, and lithography.
Prerequisite(s): ART 110 or ART 130.

ART 222. Sculpture. 3 sem. hrs.
Introduction to basic sculptural skills - including plaster, wood, aluminum casting, direct construction, and various mixed materials and techniques - with emphasis on craftsmanship, content, and idea development.
Prerequisite(s): ART 131.

ART 224. Introduction To Digital Art I. 3 sem. hrs.
An introduction to computer-based art making, digital literacy, image processing, and digital printing.
Prerequisite(s): ART 110 or ART 130.

ART 251. Reboot/Remix. 3 sem. hrs.
This course examines contemporary art through its relationship to three familiar popular culture phenomena: gaming and simulated environments; popular music; graphic novels and comics.

ART 302. Color Theory & Application. 3 sem. hrs.
Course focuses on both analytical and intuitive understanding and application of color.
Prerequisite(s): ART 130.

ART 305. Aqueous Media. 3 sem. hrs.
Course focuses on contemporary styles, concepts, and ideas regarding the use of wet media.
Prerequisite(s): ART 210 or ART 216 or ART 220.

ART 309. Navigating The Art World. 3 sem. hrs.
The theory and history of the art institutions that shape artists' careers and practical strategies for sustainable creative opportunities beyond the degree. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ART 110 and ART 210 and ART 130 and ART 131 and ART 212 or ART 216 or ART 218 or ART 220 or ART 222 or ART 224.

ART 310. Figure Drawing. 3 sem. hrs.
Individual exploration of figurative forms in a variety of drawing media and processes.
Prerequisite(s): ART 110 and ART 130.

ART 311. Figurative Modeling. 3 sem. hrs.
Course offers students a chance to explore figurative ceramic modeling and sculpting as it relates to representing a likeness.

ART 312. Ceramics. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 212.

ART 313. Ceramics. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 312.

ART 314. Typography. 3 sem. hrs.
Further development of design methods and processes including typography, image processing, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224.

ART 315. Digital Layout and Production. 3 sem. hrs.
Further development of design methods and processes including grids, page layout, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224.

ART 316. Painting Composition. 3 sem. hrs.
The applied study of pictorial manipulation through color and design principles.
Prerequisite(s): ART 216.

ART 317. Painting Concepts. 3 sem. hrs.
A course designed to increase understanding of subject, meaning and context with the objective of making the transition between guided assignments and personal pursuits.
Prerequisite(s): ART 316.

ART 318. Photography. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 218.

ART 319. Photography. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 318.

ART 320. Printmaking. 3 sem. hrs.
Further exploration of intaglio and relief processes with emphasis on both technical and conceptual development.
Prerequisite(s): ART 220.

ART 321. Printmaking. 3 sem. hrs.
Further exploration of lithography and screen print processes with emphasis on both technical and conceptual development.
Prerequisite(s): ART 320.

ART 322. Sculpture. 3 sem. hrs.
Introduction to advanced sculptural thinking and problem solving with assignments geared toward the development of skills and abilities in working with a range of materials and techniques such as metal casting, fabrication, rubber, leather, wood, and stone fabrication.
Prerequisite(s): ART 222.

ART 323. Sculpture. 3 sem. hrs.
Continued development of 3-D thinking and technical skills through assignments addressing a variety of materials and processes, including physics in three dimensions, the illustration of intangible thoughts with physical objects, the relevance of self to sculpture, and an examination of personal aesthetic.
Prerequisite(s): ART 131 and ART 222 and ART 322.

ART 324. Digital Art. 3 sem. hrs.
Projects allow for individual approaches and further development of digital art methods and processes.
Prerequisite(s): ART 224.

ART 325. Monotype/Monoprint. 3 sem. hrs.
Introduction to printmaking using materials and methods based on the students' existing skills with acrylic and/or oil paint mediums.
Prerequisite(s): ART 316.

ART 326. Digital Art: The Narrative. 3 sem. hrs.
Students will explore contemporary structure of narrative (and conversely the non-narrative) by creating, producing, and sharing stories using computer-based tools.
Prerequisite(s): ART 224.

ART 328. Digital Photo. 3 sem. hrs.
This course will explore intermediate aspects of digital photography practice. The course has technical aesthetic and conceptual elements that will be expressed through demonstrations, lectures and assignments/projects. The course culminates with a professional portfolio.
Prerequisite(s): ART 218 and ART 224.

ART 329. Photo-Based Printmaking. 3 sem. hrs.
Printmaking using photographic techniques to create a variety of matrices, including intaglio and screen printing processes.
Prerequisite(s): ART 318.

ART 338. Photographic Studio Lighting. 3 sem. hrs.
The course will present foundational skills in photographic studio lighting. Both natural and artificial light sources will be explored for producing aesthetically and conceptually engaging artworks. A wide range of applications will be explored including still life, portraiture, classic lighting problems, and open creative projects. Experimentation and improvisation is highly encouraged. Topics will reference both historical precedents and contemporary practices. The course will culminate with a portfolio of work.
Prerequisite(s): ART 218 and ART 224.

ART 344. Concepts in Drawing. 3 sem. hrs.
This course covers drawing at the intermediate level, including media, form, content, and theory. This course emphasizes personal direction. This course is designed to encourage student investigation into experimental drawing and contemporary art practices. All topics will be devoted to promoting individual student creativity, mastery of drawing means and techniques, and a further understanding of graphic concerns.
Prerequisite(s) with concurrency: ART 110.

ART 380. Art Museum Practices. 3 sem. hrs.
An overview of art museum practices. Students acquire informed perspectives on the general operations, strategies, policies, and practices inherent in a small art museum.

ART 406. Independent Studies. 3 sem. hrs.
Students may make proposals for projects not taught in the regular curriculum. Proposals must be approved by a sponsoring faculty member and the department chairperson.

ART 408. Special Projects. 3-6 sem. hrs.
Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ART 409. Special Projects. 3-6 sem. hrs.
Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ART 410. Drawing Seminar. 3 sem. hrs.
Self-directed studio practice overseen by the instructor. The student works toward creating a consistent and conceptually sound body of work that investigates contemporary and traditional definitions of drawing.
Prerequisite(s): ART 310 or ART 308 or ART 312 or ART 313 or ART 314 or ART 315 or ART 316 or ART 317 or ART 318 or ART 319 or ART 320 or ART 321 or ART 322 or ART 323 or ART 325 or ART 330 or ART 324.

ART 412. Ceramics. 3-6 sem. hrs.
3 to 6 hours. Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 212 and ART 312 and ART 313.

ART 413. Ceramics. 3-6 sem. hrs.
3 to 6 hours. Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 412.

ART 414. Graphic Design. 3-6 sem. hrs.
3 to 6 hours. Preparation of a graphic design portfolio. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 314 or ART 315.

ART 415. Graphic Design Practicum. 3 sem. hrs.
Partnering agencies with design apprentices for hands-on training. Students are required to work no less than 10 hours per week.
Prerequisite(s): ART 414.

ART 416. Advanced Painting Seminar. 3-6 sem. hrs.
3 to 6 hours. Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 317.

ART 417. Advanced Painting Seminar. 3-6 sem. hrs.
3 to 6 hours. Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.

ART 418. Photography. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 318 and ART 319.

ART 419. Photography. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.
Prerequisite(s): ART 418.

ART 420. Printmaking. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 320 and ART 321.

ART 421. Printmaking. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.
Prerequisite(s): ART 420.

ART 422. Sculpture. 3-6 sem. hrs.
3 to 6 hours. Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 222 and ART 322 and ART 323.

ART 423. Sculpture. 3-6 sem. hrs.
3 to 6 hours. Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 422.

ART 424. Digital Art Seminar. 3-6 sem. hrs.
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 324 or ART 314 or ART 315.

ART 425. Digital Art Seminar. 3 sem. hrs.
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.

ART 428. Advanced Digital Photography. 3 sem. hrs.
The course will expand upon digital skills for the photographer / digital artist presented in Art 328. This course presents technical, aesthetic and conceptual concerns at an advanced level. Content will be delivered through lecture, demonstrations, workshops, and experiential learning. The primary emphasis is on student-driven production of fully realized artworks. There will be regular critiques to facilitate the creative process. There will be a survey of contemporary photo / digital artists to stimulate ideas, discussion and practices across numerous conceptual themes. The semester will culminate in the production of a final portfolio and works presented for exhibition.
Prerequisite(s): ART 328.

ART 444. Advanced Concepts in Drawing. 3 sem. hrs.
The objectives of this course are to explore the parameters of drawing in a personally directed way and in the broadest possible manner. We will be considering drawing as a visual language in which form and content are interdependent. The project(s) in this course will be overseen by the professor, but are largely self-directed in conception and,resolution. This is considered an advanced course and will include lecture, discussion, in- and out-of-class drawing, readings, and critique. This class is an active learning forum and you will be expected to speak in this class; the development of a lively and dynamic conversation is the collective responsibility of every student.
Prerequisite(s) with concurrency: ART 344.

Arts and Sciences (AS) Courses

AS 100. EC Continuous Enrollment. 0 sem. hrs.
Used as a course designation for all students enrolled in Early College.

AS 101. Freshman Compass: Arts & Scien. 1-2 sem. hr.
An orientation course designed to introduce students to the University and the College of Arts and Sciences and to assist in academic planning. Open to freshmen. May be repeated for a maximum of 4 hours. Pass/fail.

AS 102. Compass: Arts & Sciences. 1 sem. hr.
A continuation of AS 101 for students in living-learning communities. Pass/fail.
Prerequisite(s): AS 101.

AS 299. Junior Seminar. 1 sem. hr.
Seminar for premedical, prelaw, and undecided juniors and seniors.

Astronomy (AY) Courses

AY 101. Intro To Astronomy. 3 sem. hrs.
History of astronomy, the solar system, stars, galaxies, and the universe; recent discoveries about pulsars, black holes, and quasars will be discussed. NOTE: If the student plans to apply AY 101 toward satisfaction of the N requirement of the University Core Curriculum, AY 102 must also be taken.

AY 102. Intro Astronomy Lab. 1 sem. hr.
Observation of the sun, moon, and daytime astronomical activity. Indoor exercises include stellar spectra, H-R diagram, celestial sphere, and astronomical photographic analysis. NOTE: If the student plans to apply AY 102 toward satisfaction of the N requirement of the University Core Curriculum, AY 101 must also be taken.
Prerequisite(s) with concurrency: AY 101.

AY 155. Life in the Universe. 3 sem. hrs.
“Life in the Universe” is a survey of the new and rapidly-developing interdisciplinary science of Astrobiology for the non-science major. This science brings the tools of astronomy and biology, as well as geology and chemistry, to attempt to answer questions like: How did life start on the Earth? Did life start elsewhere in our Galaxy? If there is life on other planets, how would we recognize it? Students taking this course will be introduced to the science of Astrobiology, the process of science, scientific thinking, and the fundamentals of astronomical and physical principals used throughout this course. Then students will explore our current state of knowledge and the nature of life on the earth, the geology of the earth as it makes our planet habitable to life, the origin of life on the earth, and the process of evolution. We will then apply this knowledge to the question of whether life currently exists, or could have existed in the past, on other bodies in our solar system including the planets Venus and Mars, the large moons of the planets Jupiter, Saturn and Neptune. We will then probe the effect of the history of our solar system on the habitability of various planets and moons. The final section of the course focuses on the possibilities of life on planets orbiting other stars in our galaxy (and beyond) by summarizing what is known and expected from surveys of planets orbiting other stars, the Search for Extra Terrestrial Intelligence, and the prospects for future interstellar travel.

AY 203. Observational Astronomy. 2 sem. hrs.
Students learn to observe and photograph planets, stars, and galaxies using portable telescopes on campus, the 16-inch telescope of the campus observatory, telescopes located in the darker skies at Moundville, and observatory telescopes in Arizona and Chile by internet control. Both indoor exercises and observing projects are undertaken. Students should normally have completed AY101 or a more advanced astronomy course; people concurrently enrolled in AY101 or AY204 can be admitted with the permission of the instructor NOTE: If the student plans to apply AY 203 toward satisfaction of the N requirement of the University Core Curriculum, AY 204 or AY 206 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 204. Solar System Astronomy. 3 sem. hrs.
This course provides (1) a discussion of orbital mechanics and of the interior structure, surface features, atmosphere, and origin of the sun, planets, and solar system; (2) an understanding of the detection techniques and current census of extrasolar planets; and (3) a discourse on the possibility of life on other planets. NOTE: If the student plans to apply AY 204 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 206. Astron Beyond Solar Syst. 3 sem. hrs.
This course provides (1) an introduction to the physical processes in stars and the evolution of stars that leads to the observed properties of stars; (2) a study of the final endpoints of stellar evolution including the nature and production of white dwarf stars, neutron stars, and black holes; (3) an introduction to the properties of galaxies, galactic dynamics, and star formation in galaxies, and (4) the cosmological model that accounts for the presently observed chemical composition of galaxies and stars, and for the presently observed dynamical structures of the Universe. NOTE: If the student plans to apply AY 206 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 421. Theoretical Astrophysics. 3 sem. hrs.
Introduction to astrophysical processes in stellar atmospheres, stellar structure, stellar evolution, galactic structure, the interstellar medium, active galaxies, and quasars.
Prerequisite(s): PH 253.

AY 433. Astronomical Technique. 3 sem. hrs.
Students will learn to perform astronomical observations with eye, telescope, and modern ,detectors, using techniques of photography, photometry, and spectroscopy. Students will gain familiarity with current software tools for data analysis, model fitting, and error analysis. Students will carry out and report on a complete research project, from concept and data collection to analysis and conclusions. Writing proficiency within this discipline is required for a passing grade in this course.

AY 491. Independent Study I. 1-3 sem. hr.

AY 492. Independent Study II. 1-3 sem. hr.
(refer to AY 491 Independent Study I).

Biological Sciences (BSC) Courses

BSC 108. Intro Biology Non Maj I. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120). Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 109. Intro Biology Non Maj II. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, or to pre-health professions students. Study of the physiology of living organisms with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. Usually offered fall, spring and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 114. Principles Of Biology I. 3 sem. hrs.
For biology majors, biology minors and pre-health professions students. Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics evolution; and a survey of simple organisms, including viruses, bacteria, protista and fungi. Offered fall, spring and summer. NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 115. Laboratory Biology I. 1 sem. hr.
Prerequisite(s): BSC 114
Prerequisite(s) with concurrency: BSC 114.

BSC 116. Principles Biology II. 3 sem. hrs.
For biology majors, biology minors, and pre-health professions students. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer. NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.
Prerequisite(s): BSC 114 and BSC 118.

BSC 117. Biology II Laboratory. 1 sem. hr.
Prerequisite(s) with concurrency: BSC 116.

BSC 118. Honors General Biology I. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of general biological principles, including the chemical basis of life, cellular biology, genetics, evolution, and a survey of prokaryotic organisms.

BSC 120. Honors Gen Biology II. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of the structure, function, physiology, and ecology of organisms, including higher and lower plants and vertebrates and invertebrate animals.
Prerequisite(s): (BSC 114 OR BSC 118) AND BSC 115.

BSC 215. Human Anatomy & Physiology I. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes cellular aspects; tissues and skin; the skeletal, muscular, nervous and endocrine systems; and the special senses of sight, hearing, taste, and smell.
Prerequisite(s): BSC 108 or BSC 109 or BSC 118 or BSC 120 or BSC 114 and BSC 115; or BSC 116 and BSC 117; or CH 102 or CH 105 or CH 118.

BSC 216. Human Anatomy & Physiology II. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes the respiratory, circulatory, digestive, urinary, and reproductive systems.
Prerequisite(s): BSC 215.

BSC 220. Biol Evol. 3 sem. hrs.
An introductory course on the evidence for evolution, mechanisms of evolutionary change, natural and sexual speciation, and common misconceptions about evolution.

BSC 242. Microbiology And Man. 4 sem. hrs.
For students majoring in nursing, education, and human environmental sciences. Lecture and laboratory. Introduction to microbiology with an emphasis on the relationships between man and protozoa, bacteria, viruses, and fungi. NOTE: Credit will not be granted for both BSC 242 and BSC 310.
Prerequisite(s): CH 101 or CH 104 or CH 117; and CH 102 or CH 105 or CH 118; and BSC 108 or BSC 109 or BSC 114 or BSC 118 or BSC 215 or BSC 216.

BSC 300. Cell Biology. 3 sem. hrs.
The course is designed to provide an understanding of the molecular basis of cell function. Topics include metabolism, gene control, cell membranes, and cell-to-cell signaling.
Prerequisite(s): BSC 114 or BSC 118; and CH 102 or CH 118.

BSC 303. Field Zoology. 3 sem. hrs.
A field-based course with lecture and lab combined. A survey of the taxonomy, ecology, and identification of local biota. Offered irregularly.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 310. Microbiology. 3 sem. hrs.
Lecture and laboratory. Survey course on microorganisms, including protozoa, bacteria, viruses, fungi, and algae. Credit will not be granted for both BSC 310 and BSC 242.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and CH 231.

BSC 311. Gen Bacteriol & Physiol. 3 sem. hrs.
Fundamental course in bacteriology with emphasis on bacterial morphology, physiology, nutrition, and genetics.
Prerequisite(s): BSC 310 and CH 232.

BSC 312. Microbiology Lab. 2 sem. hrs.
General microbiology laboratory to accompany BSC 310.
Prerequisite(s): BSC 310
Prerequisite(s) with concurrency: BSC 310.

BSC 313. Gen Bacteriology Lab. 3 sem. hrs.
Lecture and laboratory. Course presents methods for the isolation, microscopic observation, enumeration, and determination of the biochemical characteristics of bacteria.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 311.

BSC 315. Genetics. 3 sem. hrs.
Study of transmission and function of genes, gene organization, regulation of prokaryotic and eukaryotic genes, and applications of genetics. NOTE: Credit will not be granted for both BSC 309 and BSC 315.
Prerequisite(s): BSC 114 or BSC 118; and CH 101 or CH 117; and CH 102 or CH 118.

BSC 320. Freshwater Studies. 4 sem. hrs.
Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 325. Tropical Plant Diversity. 4 sem. hrs.
The purpose of this course is to familiarize students with the relevant aspects of tropical ecosystems and tropical plants.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120; and BSC 117.

BSC 340. Principles of Natural Resources Conservation. 3 sem. hrs.
Introduces students to basic principles of natural resources conservation, including fundamental concepts in natural resource conservation and management. Examines humanity's past and present impacts on world environments; the influence of culture and the wants, needs, and desires of human beings will be integrated into the material. Discusses conservation of natural resources, including soil, water, air, forests, rangelands, energy, wildlife and fisheries, based on scientific principles.
Prerequisite(s): (BSC 114 and BSC 115 or BSC 118) OR (BSC 116 and BSC 117 or BSC 120).

BSC 360. Plant Biology. 4 sem. hrs.
Lecture and laboratory. Introduction to the biology of embryophytes with emphasis on their development, evolution, and ecology.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 373. Vertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. Introductory course in the study of vertebrate zoology. Subjects included are principles of systematics and nomenclature, a survey of vertebrate taxa, the species concept, analysis of taxonomic characters, and an introduction to zoogeography and behavior.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 376. Invertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. The classification, morphology, evolution, and ecology of invertebrate animals.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 380. Introduction to probability and statistics for biologists. 3 sem. hrs.
This course will provide an introduction to probability and statistical methods that are commonly used in the biological sciences. Practical, real-world examples from biology, ecology, and natural resources management will be used throughout the course. This course is aimed at 300-level students who intend to work with biological data, or anyone interested in statistics. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 125 or MATH 145 and CS 102.

BSC 385. General Ecology. 3 sem. hrs.
A study of the general principles of ecology, covering evolution, autoecology, energetics, nutrient cycling, population dynamics, competition, predation, and community analysis.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145; and BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 386. General Ecology Lab. 2 sem. hrs.
Offered irregularly.
Prerequisite(s): BSC 385
Prerequisite(s) with concurrency: BSC 385.

BSC 390. Honors Thesis Research. 1-8 sem. hr.
Individual research conducted under the direction of an advisor and reported in an acceptable thesis. May be repeated over two to four semesters for a maximum 8 hours.
Prerequisite(s): BSC 315 and BSC 300 and BSC 385BSC 116 and BSC 117; or BSC 120.

BSC 391. Tutorial In Biol Science. 1-2 sem. hr.
Survey of the literature relating to a topic approved by the supervising faculty member; not to include laboratory or field research. A formal paper and/or examination is required. May be taken for one credit hour in each of two consecutive semesters, or for one or two credit hours in any one semester. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 393. Biology Outreach. 2 sem. hrs.
Outreach course that includes survey of the literature relating to a topic approved by instructor. Design of active learning projects to emphasize a basic biological concept and teaching basic science concepts to elementary students.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 396. Resident Study. 1-6 sem. hr.
Prerequisite: Written approval from the department office prior to registration. Credit awarded is determined by the extent of the student's participation but may not exceed 6 hours.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 398. Undergraduate Research. 1-4 sem. hr.
Independent research or research participation. A maximum of 4 hours credit for BSC 398 may be applied to the requirements of the biology and microbiology majors; an additional 4 hours may be taken as elective credit and applied to the 120-hour requirement.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 399. Presentation of UG Research. 2 sem. hrs.
Exploration of the process of presenting research results in different written formats including: abstract, poster, and full journal article. How the needs for clear presentation and response to peer review can inform the experimental process will also be covered.
Prerequisite(s): BSC 398.

BSC 400. Vertebrate Funct Morphol. 4 sem. hrs.
Recommended for pre-health professions students. Lecture and laboratory. The comparative anatomy of the vertebrates with emphasis on functional features of several vertebrate species. Laboratory work deals mainly with identifying anatomical features of several vertebrate species.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 403. Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, formal application, and a satisfactory interview.
Prerequisite(s): BSC 120 or BSC 114 and BSC 115 and BSC 116 and BSC 117.

BSC 404. Honors Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, Honors attribute, formal application, and a satisfactory interview.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; and BSC 116 and BSC 117; or BSC 120.

BSC 407. Honors Seminar In Bsc. 1 sem. hr.
Seminar and discussion. In the first semester, students present seminars based on the current literature. In the second semester, students present seminars derived from their honors theses. A maximum of 4 hours of credit for BSC 407 may be applied to the requirements of the biology or microbiology major. Offered according to demand.

BSC 409. Pre-Health Apprenticeship I. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 410. Pre-Health Apprenticeship II. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 412. Limnology. 3 sem. hrs.
Study of freshwater environments and the organisms that live in lakes, ponds, and streams. May be taken with BSC 413 or separately.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 414. Dendrology. 3 sem. hrs.
Lecture and laboratory. Identification, classification, characteristics, and distribution of the principal forest trees of the United States. Two weekend field trips are required. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 415. Wetland Ecology. 3 sem. hrs.
An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat and plant zonation, and the role of plants in ecosystem function. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 417. Environmental Modeling. 3 sem. hrs.
An integrated study of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving.
Prerequisite(s): MATH 125 and CH 101 or CH 117; and CH 102 or CH 118 and BSC 385.

BSC 420. Principles Of Systematics. 4 sem. hrs.
Introduction to the principles, methods, and applications of systematics to analysis of morphological and molecular data. Includes introduction to biological classifications and nomenclature.
Prerequisite(s): BSC 360 or BSC 373 or BSC 376 or BSC 483.

BSC 424. Human Physiology. 3 sem. hrs.
Topics covered are the digestive, nervous, reproductive, immune, muscular, blood, cardiovascular, respiratory, urinary, and body-fluid systems. May be taken with BSC 425 or separately.
Prerequisite(s): BSC 300.

BSC 425. Human Physiology Lab. 2 sem. hrs.
Hands-on experience for understanding the principles and mechanisms of physiological processes of the human body. Major emphases on organ system performance, whole-body metabolism, and energetics.
Prerequisite(s): BSC 424
Prerequisite(s) with concurrency: BSC 424.

BSC 428. Biology Of Fishes. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 431. Pathogenic Microbiology. 3 sem. hrs.
Study of microorganisms related to health and disease with emphasis on molecular mechanism of pathogenesis. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 432. Pathogenic Mibrobiol Lab. 3 sem. hrs.
Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered in alternate years.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 431.

BSC 434. Plant Systematics. 4 sem. hrs.
Lecture and laboratory. Characteristics and distribution of the major families of vascular plants as well as practice in the collection and identification of flowering plants. One weekend field trip required. Offered in alternate years.
Prerequisite(s): BSC 360.

BSC 435. Immunology. 4 sem. hrs.
Thorough exploration of various aspects of modern immunology at the molecular and cellular levels.
Prerequisite(s): BSC 310.

BSC 436. Immunology Laboratory. 3 sem. hrs.
Practical experience in modern immunological techniques. Offered in alternate years.
Prerequisite(s): BSC 435
Prerequisite(s) with concurrency: BSC 435.

BSC 439. Bch/Molecular Biology Lab. 3 sem. hrs.
Students participate in the generation of new knowledge, thus the experiments vary. Techniques taught include agarose gel electrophoresis, cycle sequencing, sequence analysis, plasmid purification, restriction endonuclease digestion, gel purification of DNA, ligation, transformation, primer design, PCR, gene knockouts, protein fusions, and enzyme assays.
Prerequisite(s): BSC 450.

BSC 441. Developmental Biology. 3 sem. hrs.
The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development.
Prerequisite(s): BSC 300 and BSC 315.

BSC 442. Integrated Genomics. 4 sem. hrs.
An advanced discovery-based laboratory course designed to introduce the process of gene discovery and integrate modern genomics techniques and bioinformatic database usage.
Prerequisite(s): BSC 300 and BSC 315
Prerequisite(s) with concurrency: BSC 315.

BSC 444. General Virology. 3 sem. hrs.
A survey of viruses, viral replication, and viral pathogenesis, including bacterial, animal, and plant viruses. The role of viruses in molecular biology is emphasized.
Prerequisite(s): BSC 300 or BSC 310.

BSC 448. Animal Behavior. 3 sem. hrs.
This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology and economics. However there will be a historical undercurrent which will illustrate the roots of this truly interdisciplinary field.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120; and BSC 385.

BSC 449. Endocrinology. 3 sem. hrs.
A detailed examination of the vertebrate endocrine system that uses a comparative approach to explore intricate relationships between the brain, endocrine glands, hormones and target organs.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 450. Fundamentals of Biochemistry. 3 sem. hrs.
A one-semester survey of protein structure, enzymes, bioenergetics, metabolism and its regulation. Designed for advanced undergraduate students.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120 or ; and BSC 117 and CH 232.

BSC 451. Molecular Biology. 3 sem. hrs.
A one-semester survey of molecular biology that emphasizes gene structure, function, and regulation of expression. Offered spring semester.
Prerequisite(s): BSC 311 or BSC 315; and BSC 450; and CH 462 or.

BSC 456. Microbial Ecology. 3 sem. hrs.
Study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions.
Prerequisite(s): BSC 310 or BSC 385.

BSC 460. Human Developmental Biology. 4 sem. hrs.
Lecture and laboratory. Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis, and functional development. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 464. Biology Of Algae. 4 sem. hrs.
Lecture and laboratory. Freshwater and marine algae: their structure, development, taxonomy, and distribution.
Prerequisite(s): BSC 360 or BSC 310.

BSC 465. Prin Of Toxicology. 3 sem. hrs.
The study of adverse effects of chemicals on living organisms and methods for predicting the likelihood of such effects, including descriptive, mechanistic, and regulatory aspects.
Prerequisite(s): BSC 300 and BSC 315.

BSC 469. Histology Of Vertebrates. 4 sem. hrs.
Lecture and laboratory. Identification of tissue types and components, histogenesis and function of tissues.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 471. Plant Physiology. 3 sem. hrs.
A general survey for upper-level undergraduate students covering all aspects of plant physiology including plant transport, translocation of sugars in plants, plant biochemistry, plant metabolism, plant growth and development, photosynthesis, nitrogen fixation, flowering and plant hormones. The course will consist of lectures, in-class experiments, group discussions, presentations and other activities relating to course material.
Prerequisite(s): BSC 300 and BSC 360.

BSC 472. Mycology. 4 sem. hrs.
Lecture and laboratory. Introduction to the fungi and their biology, including aspects of their structure and function, taxonomy, genetics, and ecology. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 475. General Entomology. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, classification, and habits of insects.
Prerequisite(s): BSC 385.

BSC 476. Aquatic Insects. 4 sem. hrs.
Lecture and laboratory. Survey of aquatic insects with emphasis on their identification, life histories, and ecology. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 480. Plant Ecology. 3 sem. hrs.
This course will examine the ecology of plants at different levels: individual, population and community.
Prerequisite(s): BSC 385 and BSC 360.

BSC 482. Conservation Biology. 3 sem. hrs.
A thorough examination of the principles of conservation biology.
Prerequisite(s): BSC 385.

BSC 483. Evolution. 3 sem. hrs.
Thorough investigation of evolution, including population genetics, molecular evolution, adaptation, and speciation. Offered in the spring semester.
Prerequisite(s): BSC 385 and BSC 315.

BSC 484. Aquatic Biology Seminar. 1 sem. hr.
Review and discussion of current topics in aquatic biology.
Prerequisite(s): BSC 320 and BSC 385; and BSC 412 or BSC 490.

BSC 487. Biogeography. 3 sem. hrs.
Examination of the ecological and historical factors influencing the geographic distribution of plants and animals. Offered alternate years.
Prerequisite(s): BSC 385.

BSC 490. Stream Ecology. 4 sem. hrs.
Lecture and laboratory. Thorough study of the structural (physical and biological) and functional attributes (energy flow, nutrient cycling, community structure) characteristic of stream and river ecosystems. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 497. Special Topics. 1-4 sem. hr.
A biological sciences topic not covered in other courses. The credit hours and format are determined as appropriate to the topic, and a course title is added to the schedule of classes. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

Blount Undergraduate Initiative (BUI) Courses

BUI 100. Convocation. 1 sem. hr.
Experiences to extend and complement the Blount Undergraduate Initiative foundation courses. May be repeated once for credit.

BUI 101. Foundation: Origins. 3 sem. hrs.
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

BUI 102. Foundation: Possibilities. 3 sem. hrs.
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on significant issues in the discourse on human possibilities.

BUI 301. Thematic Seminar. 3 sem. hrs.
A text-centered study of one of the core problems that define the history of ideas in the liberal arts. May be repeated for a maximum of 12 hours.

BUI 401. Blount Capstone Worldviews. 3 sem. hrs.
An examination of the "worldviews" of various epochs and the completion of a senior project. Students learn how individual beliefs about what is actual, what is possible, and what is desirable can be combined into a single unified understanding of the world, and how such a worldview has implications for what we should do and how we should live.

Chemistry (CH) Courses

CH 101. General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 101 and CH 107 or for both CH 101 and CH 117. A survey of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): MAPL of 467 or higher or ACT of 24 or higher or SAT of 560 or higher or MATH 100 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 100 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

CH 102. General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 102 and CH 105 or both CH 102 and CH 108. Continuation of CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 101 or CH 117.

CH 104. Introductory Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. The course is primarily for students in the Capstone College of Nursing and the College of Human Environmental Sciences; it may not be substituted for CH 101 except with departmental permission. Degree credit is not awarded for both CH 104 and CH 107. An introductory survey of the facts, principles, and theories of chemistry. Usually offered in the fall and summer semesters.

CH 105. Introductory Org Chem. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to chemistry majors or minors or to students who have earned credit for CH 102. Degree credit is not awarded for both CH 105 and CH 102 or both CH 105 and CH 108. The course may not be substituted for CH 101 or CH 102. Brief survey of organic and biochemistry. Usually offered in the spring and summer semesters.
Prerequisite(s): CH 104 or CH 101.

CH 117. Honors General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 101. Degree credit is not awarded for both CH 117 and CH 101 or both CH 117 and CH 107. A comprehensive study of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall semester.

CH 118. Honors General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 102. Degree credit is not awarded for both CH 118 and CH 102, both CH 118 and CH 105, or both CH 118 and CH 108. Continuation of CH 117 with basic inorganic chemistry. Includes a systematic study of the elements and of the structures, properties, and reactions of their compounds. Usually offered in the spring semester.
Prerequisite(s): CH 117.

CH 155. Forensic Science. 3 sem. hrs.
This course will present an overview of forensic science. The course will focus on processing a crime scene as well as other topics used to connect a suspect to a given crime.

CH 223. Quantitative Analysis. 4 sem. hrs.
Three lectures and one three hour laboratory. Comprehensive course covering classical methods of quantitative analysis as well as an introduction to electrochemical, spectroscopic and chromotographic methods. Usually offered in the fall, spring and summer semesters.
Prerequisite(s): CH 102 or CH 118.

CH 231. Elem Organic Chemistry I. 3 sem. hrs.
Three lectures. The course is an introduction to the theory and principles of organic chemistry. Topics include organic structure, syntheses, and analyses. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 102 or CH 118.

CH 232. Elem Organic Chem II. 3 sem. hrs.
Three lectures. This course is a continuation of CH 231. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 231.

CH 237. Elem Organic Chem Lab. 2 sem. hrs.
A one-hour lecture and five-hour laboratory. Designed for chemistry majors and chemistry minors to take concurrently with CH 232. Usually offered in the fall, spring, and summer sessions.
Prerequisite(s): CH 231
Prerequisite(s) with concurrency: CH 232.

CH 338. Elem Organic Chem Lab II. 2 sem. hrs.
A one-hour lecture and five-hour laboratory. The course is designed for chemistry majors. Usually offered in the fall semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 232 and CH 237.

CH 340. Elem Physical Chem. 3 sem. hrs.
Three lectures. This course is designed for students in the pre-health professional degree or pursuing the chemistry minor and is a study of the application of physical chemical concepts in biological systems. It is a
Prerequisite(s): CH 223 and PH 102 or PH 106 or PH 126.

CH 341. Physical Chemistry. 3 sem. hrs.
Three lectures. The course is designed for chemistry majors and is a study of the structure and properties of matter with emphasis on theoretical principles and their mathematical interpretation. Usually offered in the fall semester.
Prerequisite(s): CH 223 and PH 106 or PH 126; and MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 227 or MATH 247.

CH 342. Physical Chemistry. 3 sem. hrs.
Three lectures. The course is designed for chemistry majors. Continuation of CH 341. Usually offered in the spring semester.
Prerequisite(s): CH 341.

CH 343. Elem Phy Chem Lab. 1 sem. hr.
One three-hour laboratory. The course is designed to be taken concurrently with CH 340. Usually offered in the fall semester.
Prerequisite(s) with concurrency: CH 340.

CH 348. Physical Chemistry Lab. 2 sem. hrs.
6 hours of laboratory. The course is designed to be taken concurrently with CH 342. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 341
Prerequisite(s) with concurrency: CH 342.

CH 396. Undergrad Research. 1-3 sem. hr.
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 398. Undergrad Research. 1-3 sem. hr.

CH 399. Undergrad Research. 1-3 sem. hr.
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 405. Medicinal Chemistry. 3 sem. hrs.
Fundamental considerations in drug design. Includes lead discovery, target identification and validation, pharmacodynamics, pharmacokinetics and metabolism, and formulations/drug delivery systems. Chemical modifications to improve efficacy and pharmacokinetics will be emphasized.,
Prerequisite(s): BSC 300 and CH 232 and CH 461.

CH 409. Organometallic Chemistry. 3 sem. hrs.
Survey of the typical reactions of organotransition metal complexes with a focus on the fundamental mechanisms of these reactions and the application of organometallic catalysts.
Prerequisite(s): CH 341 or CH 401 or CH 413.

CH 410. Scientific Glassblowing. 3 sem. hrs.
The course introduces students to the fundamentals of scientific glassblowing through hands-on training. Usually offered during Interim.

CH 413. Inorganic Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Survey in areas of coordination, main-group, and organometallic chemistry. Laboratory experiments involve the preparation, purification, and identification of inorganic compounds. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 341.

CH 424. Instrumental Analysis. 4 sem. hrs.
Two lectures and one five-hour laboratory. The course covers the general operating principles of the commonly used analytical instruments with an emphasis on theory. Wherever possible, mathematical interpretations and derivations are given. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 223 and CH 341
Prerequisite(s) with concurrency: CH 348.

CH 435. Inter Organic Chem. 3 sem. hrs.
Three lectures. The course is designed to familiarize the student with mechanistic and synthetic organic chemistry. Usually offered in the fall semester.
Prerequisite(s): CH 232 and CH 342.

CH 449. Atom & Mole Structures. 3 sem. hrs.
Three lectures. Introduction to quantum mechanics and statistical thermodynamics. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 342 and CH 348.

CH 461. Biochemistry I. 3 sem. hrs.
Three lectures. Survey of the physical and chemical properties of the molecular components and methods of isolating and analyzing them. Usually offered in the fall semester.
Prerequisite(s): CH 223 and CH 232 and CH 237.

CH 462. Biochemistry II. 3 sem. hrs.
Three lectures. Survey of the principal pathways of carbon, nitrogen, and energy metabolism and clinical and forensic chemistry. Usually offered in the spring semester.
Prerequisite(s): CH 461 or BSC 300.

CH 463. Biochem-Clin/Foren/Chem. 3 sem. hrs.
One lecture and one six-hour laboratory. Biochemical techniques within the structure of a semester-long research project. Topics include protein purification and chromatography, spectroscopy, electrophoresis, kinetics, and DNA manipulation. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 461
Prerequisite(s) with concurrency: CH 462.

CH 491. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 492. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 493. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 494. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 497. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 348 and CH 342.

CH 498. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348.

CH 499. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348.

Chinese (CHI) Courses

CHI 101. Elementary Chinese. 4 sem. hrs.
Contemporary National Language (Mandarin): speaking, reading, and writing. The class meets five hours per week.

CHI 102. Elementary Chinese. 4 sem. hrs.
This is a continuation of Chinese language on the elementary level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension.
Prerequisite(s): CHI 101.

CHI 201. Intermediate Chinese. 3 sem. hrs.
This is a continuation of Chinese language on the intermediate level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension. Offered in the fall semester.
Prerequisite(s): CHI 101 and CHI 102.

CHI 202. Intermediate Chinese. 3 sem. hrs.
This is the second semester of intermediate Chinese. Offered in the spring semester.
Prerequisite(s): CHI 201.

CHI 301. Intermediate Chinese. 3 sem. hrs.
Study of contemporary Chinese language and literature. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 302. Intermediate Chinese. 3 sem. hrs.
Study of contemporary Chinese language and literature. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 350. Traditional Chinese Lit Trans. 3 sem. hrs.
Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.

CHI 351. Modern Chinese Lit Trans. 3 sem. hrs.
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

CHI 353. Conversation/Composition. 1-4 sem. hr.
Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.
Prerequisite(s): CHI 202.

CHI 354. Conversation/Composition. 1-4 sem. hr.
Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.
Prerequisite(s): CHI 202.

CHI 401. Classical Chinese Language. 3 sem. hrs.
Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 402. Literary Chinese Language. 3 sem. hrs.
Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.
Prerequisite(s): CHI 202.

Classics (CL) Courses

CL 222. Greek Roman Mythology. 3 sem. hrs.
Introduction to classical mythology itself and the principal Greek and Roman myths. Offered each semester.

CL 235. Christian Church To 1500. 3 sem. hrs.
Same as HY 235.

CL 323. Alexander the Great, Then & Now. 3 sem. hrs.
We will study the journey and conquests of Alexander the Great as a historical and cultural event. His expedition took him from Greece, through the countries of the Middle and Near East, all the way to India. Many Western leaders (including Americans) have tried to repeat Alexander's achievement with limited success. Our exploration will look at the reasons of subsequent failures, among other issues.

CL 350. Roman Religion. 3 sem. hrs.
Survey of the rites and structure of ancient Roman cult with special emphasis on the Roman religious calendar and the clash between paganism and Christianity. Writing proficiency within this discipline is required for a passing grade in this course.

CL 365. Greece & Rome in Film. 3 sem. hrs.
This course integrates literature, history, and film. Many of the films we watch attempt to reconstruct the ancient world to some degree of accuracy, while others are inspired by themes of ancient literature, but without regard to historic authenticity. Students read several primary sources to help them discern inauthentic elements or appreciate good interpretations in film.

CL 380. Special Topics. 3-6 sem. hrs.
Detailed investigations of specific aspects of Greco-Roman civilization such as ancient drama, women's lives, ancient religion, and technological achievements.

CL 384. Ancient Egypt Near East. 3 sem. hrs.
Introduction to Egypt's ancient history (from the pyramids to the Ptolemies), with emphasis on the civilization's contributions to Western heritage.

CL 385. History Of Greece. 3 sem. hrs.
Survey of the history of Greece from earliest times to the death of Alexander the Great, with emphasis on the Golden Age.

CL 386. History Of Rome. 3 sem. hrs.
Introduction to the ancient history of Rome, with emphasis on the Republic from its Etruscan beginnings to the Second Punic War, and on the golden age of Caesar Augustus at the beginning of the Roman Empire.

Communicative Disorders (CD) Courses

CD 225. Intro Comm Disorders. 3 sem. hrs.
Study of the types of speech, language, and hearing disorders; an introduction to the principles of rehabilitation of communicative disorders; and consideration of employment settings.

CD 226. Lang & Speech Develop. 3 sem. hrs.
Theory and practice of normal speech and language processes and sequences.

CD 244. Phonetics. 3 sem. hrs.
Study of the principles of phonetics and their application to speech. The International Phonetic Alphabet is used for study and transcription.

CD 275. Anat Physio Sech Hear Mechansm. 3 sem. hrs.
Detailed study of the bases of speech and hearing, including anatomy, physiology, and neurology.

CD 277. Preprofess Lab Experienc. 1 sem. hr.
Structured observational activities for students prior to their enrollment in a practicum course in speech-language pathology. Open to CD majors only.

CD 308. Speech Disorders I. 3 sem. hrs.
An introduction to articulation, phonology, & language disorders in children & adults as well as literacy & aural rehabilitation.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 309. Speech Disorders II. 3 sem. hrs.
An introduction to aphasia, traumatic brain injury, dementia, dysarthria, and apraxia.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 350. Independent Study. 1-3 sem. hr.
Directed readings in an area of communicative disorders. Open to CD majors only.
Prerequisite(s): Minimum of 18 hours in CD courses and permission of the instructor.

CD 351. Hearing Science. 3 sem. hrs.
This course will provide the student with an understanding of the physical aspects of sound and how it is processed physiologically through the human auditory system. In addition, the student will become familiar with the anatomy of the hearing mechanism.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 377. Clin Practicum I Speech. 3 sem. hrs.
Supervised clinical practice in speech therapy with children. Open to CD majors only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 277 CD 308 By application only.

CD 378. Clinic Pract II Speech. 1-3 sem. hr.
Supervised clinical practice in speech therapy with children.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 277 CD 308 CD 377 By application only.

CD 411. Speech Science. 3 sem. hrs.
A study of speech physiology, basic electronics, basic acoustics, speech acoustics, auditory perception, and neuroanatomy. Class work and laboratory sessions cover speech spectrographic analysis, basic sound measurement, and selected other instrumentation used in the speech and hearing science laboratory.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 416. Multicultural Issues. 3 sem. hrs.
A framework for systematically analyzing cultural similarities and differences will be provided and will serve as a model to examine cultural differences in the clinical setting. Offered fall semester.
Prerequisite(s): CD 225 and CD 226 and CD 244.

CD 442. Public School Internship. 3-6 sem. hrs.

CD 443. Basic Audiology. 3 sem. hrs.
Introduction to hearing evaluation, conservation, and impairment. Also considers the auditory system: anatomy, physiology, and pathology. Includes three laboratory sessions.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 444. Aural Rehabilitation. 3 sem. hrs.
The rehabilitation of hearing-impaired people primarily through auditory and visual training is addressed. Other sensory training, language development, speech production, and guidance are also considered. Open to CD majors only.
Prerequisite(s): Minimum overall GPA of 2.5 CD 225 CD 226 CD 244 CD 275.

CD 445. Audiology Lab Experience. 1-3 sem. hr.
Supervised laboratory or clinical experience in hearing evaluation and rehabilitation.
Prerequisite(s): Completion of the 200-and 300-level undergraduate CD classes as well as CD 443. By application only.

CD 448. Advanced Audiology. 3 sem. hrs.
An in-depth study of audiology and hearing science as they relate to speech communication and communication disorders.

CD 454. Fluency Disorders. 3 sem. hrs.
The study of the nature, assessment, and treatment of stuttering. Emphasis on understanding the different onset and developmental theories and different approaches to treatment.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308.

CD 455. Voice Disorders. 3 sem. hrs.
This course is designed to provide basic knowledge and skills needed for the evaluation and treatment of voiced language disorders.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308.

Criminal Justice (CJ) Courses

CJ 100. Intro Criminal Justice. 3 sem. hrs.
An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components. CJ 100 is a prerequisite for all 300- and 400-level criminal justice courses.

CJ 220. Law Enforcement. 3 sem. hrs.
Development of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies; and functions of police officers.

CJ 221. Private Security. 3 sem. hrs.
Organization and management of the security function in industry, business, and government. Exploration of methods to protect personnel, facilities, and other major assets: loss prevention, control, and risk management.

CJ 240. Juvenile Delinquency. 3 sem. hrs.
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.

CJ 250. Judicial Process. 3 sem. hrs.
A general overview of U.S. judicial systems, including recent innovations and future trends.

CJ 270. Corrections. 3 sem. hrs.
A general overview of U.S. corrections, jails and prisons, institutional procedures, recent innovations, and the future of corrections.

CJ 300. Survey Criminal Theories. 3 sem. hrs.
Study of traditional and modern explanations of crime and criminality.
Prerequisite(s): CJ 100.

CJ 303. Minorities Crim Soc Just. 3 sem. hrs.
Study of the role played by racial minorities at each stage of the criminal justice system. Special attention is devoted to theories and measurement of minority crimes and race relations and to the treatment of minorities by law enforcement officers, courts, and corrections.
Prerequisite(s): CJ 100.

CJ 306. Hist Crime And Treatment. 3 sem. hrs.
Examination in historical sequence of the perspectives on and methods of crime control, from the traditional to the modern. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100.

CJ 321. Criminal Investigation. 3 sem. hrs.
Fundamentals of criminal investigation from crime scene searches to follow-up investigations and case preparation.
Prerequisite(s): CJ 100.

CJ 330. Org & Mgt Concepts CJ. 3 sem. hrs.
Formal organization theory and personnel administration, with emphasis on law enforcement agencies.
Prerequisite(s): CJ 100.

CJ 380. Research Methods. 3 sem. hrs.
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problem of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): CJ 100.

CJ 381. Statistics. 3 sem. hrs.
Statistical methods in criminal justice, including central tendency and dispersion, tests of significance, and measures of association.
Prerequisite(s): CJ 100 and MATH 110 or MATH 112 or MATH 115.

CJ 395. Internship. 1-12 sem. hr.
An opportunity for students to conduct career exploration and build a record of experience in the field.
Prerequisite(s): CJ 100.

CJ 404. Health and Crime. 3 sem. hrs.
The health consequences of social deviance and the impact of criminalization for individual and societal well-being. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.
Prerequisite(s): CJ 100.

CJ 408. Gendered Justice. 3 sem. hrs.

CJ 410. Community Based Correctn. 3 sem. hrs.
Study of intermediate punishments and alternatives to incarceration.

CJ 420. Seminar In Law Enforcement. 3 sem. hrs.
Examines the philosophical basis of law enforcement and traces the development of the law enforcement function.

CJ 421. Crime Prevention/Control. 3 sem. hrs.
Survey of crime control models.
Prerequisite(s): CJ 100.

CJ 422. Terrorism . 3 sem. hrs.
An analysis of selected areas of terrorism and counter-terrorism, with an emphasis on parallels between terrorism and crime.
Prerequisite(s): CJ 100 - Introduction to Criminal Justice.

CJ 423. Issues in Homeland Security . 3 sem. hrs.
The course will offer an overview of the United States Department of Homeland Security from its initiation to present day, and the wide range of issues that the department influences, both policy and operational. Additionally, how the United States Department of Homeland Security interacts with state, local, and tribal governments, or law enforcement agencies.
Prerequisite(s): CJ 100 - Introduction to Criminal Justice.

CJ 450. Seminar In Judicial Process. 3 sem. hrs.
Examines the philosophical basis of the American legal system and traces the development of the judicial process.

CJ 460. Criminal Law I. 3 sem. hrs.
Classification and analysis of selected areas of the substantive law of crimes, including basic principles of criminal law and crimes against the person and property.
Prerequisite(s): CJ 100.

CJ 461. Criminal Law II. 3 sem. hrs.
General principles and theories of criminal procedure, including concepts of due process, arrest, search and seizure, wiretapping, lineups, and other recent developments.
Prerequisite(s): CJ 100.

CJ 470. Seminar In Corrections. 3 sem. hrs.
History, analysis, and evaluation of American correctional institutions, including the sociology of confinement and reform movements within the system.
Prerequisite(s): CJ 100.

CJ 483. Law And Society. 3 sem. hrs.
Law as an instrument of social control, the functions and limitations of law, and the machinery of law as a part of the larger society. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100.

CJ 490. Spec Topics Crim Justice. 3 sem. hrs.
Examination of selected problems and issues in criminal justice. May be taken twice, provided the topic is different.
Prerequisite(s): CJ 100.

CJ 499. Independnt Study In CJ. 1-6 sem. hr.
Research under faculty supervision in any area of interest to the student.

Critical Language (CRL) Courses

CRL 101. Elementary Critical Language I. 1-6 sem. hr.
This course is for students studying any beginning level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different languages.

CRL 102. Elem. Critical Language II. 1-6 sem. hr.
This course is equivalent to the second semester level of less commonly taught languages at the Critical Language Center or abroad, and repeatable for credit with different languages.

CRL 201. Int. Critical Language I. 1-6 sem. hr.
This course is equivalent to the third semester level of a less commonly taught language at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL 202. Int. Critical Languages II. 1-6 sem. hr.
This course is equivalent to the fourth semester level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL 301. 3rd Year Critical Lang. I. 1-6 sem. hr.
This special course is for students who have already aquired the intermediate level of a less commonly taught language, pursuing the further level at the Critical Languages Center.

CRL 302. 3rd Year Critical Lang. II. 1-6 sem. hr.
This course is a continuation of CRL 301, only available with appropriate staff, tutor, and external examiner availability, and with permission of the Critical Languages Center director.

Croatian (CROA) Courses

CROA 101. Elem Croatian Language. 3 sem. hrs.
Contemporary Croatian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

CROA 102. Elem Croatian Language. 3 sem. hrs.
Contemporary Croatian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

Czech (CZE) Courses

CZE 101. Elem Czech Language. 3 sem. hrs.
Contemporary Czech: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

CZE 102. Elem Czech Language. 3 sem. hrs.
Contemporary Czech: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

CZE 201. Intermediate Czech. 3 sem. hrs.
Continuation of Czech language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): CZE 102.

CZE 202. Intermediate Czech. 3 sem. hrs.
Continuation of Czech 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): CZE 102.

Dance (DN) Courses

DN 101. Beginning Ballet. 2 sem. hrs.
A studio course in classical ballet at the beginning level.

DN 110. Intro To Dance Styles. 2 sem. hrs.
Introduction to ballet, modern, and jazz dance through theory and practice at the beginning level.

DN 111. Modern Dance Technique I. 3 sem. hrs.
This course will introduce the basics of modern dance techniques.

DN 121. Ballet Technique I-A. 3 sem. hrs.
A studio course in classical ballet for first year dance majors or musical theatre majors. Offered in the fall semester.

DN 122. Ballet Technique I-B. 3 sem. hrs.
The development of theory and practice of classical ballet for first year dance majors or students with some previous experience in ballet.

DN 142. World Dance. 2 sem. hrs.
An introduction to dance movement as influenced by various cultures.

DN 151. Jazz Technique I. 3 sem. hrs.
Introduction to jazz dance technique and style through dance studio work.

DN 200. Special Topics. 3 sem. hrs.
Investigation of dance theories and principles.

DN 210. Dance Styles II. 3 sem. hrs.
This course will include study of various dance styles at the intermediate level. The styles will represent dance forms from theatrical productions. May be repeated for a maximum of 6 hours. Musical Theatre majors only or permission of the instructor.

DN 211. Modern Dance II-A. 3 sem. hrs.
A studio course in modern dance techniques at the intermediate level.

DN 212. Modern Dance II-B. 3 sem. hrs.
A studio course in modern dance technique at the advanced intermediate level.

DN 221. Ballet Technique II-A. 3 sem. hrs.
Development of classical ballet technique, and performance quality at the intermediate level for dance majors.
Prerequisite(s): DN 121 or DN 122.

DN 222. Ballet Technique II-B. 3 sem. hrs.
Development of the classical theory and practice of ballet, at the intermediate level.
Prerequisite(s): DN 221.

DN 251. Jazz Technique II-A. 3 sem. hrs.
A studio course in jazz dance technique at the intermediate level.

DN 252. Jazz Technique II-B. 3 sem. hrs.
A studio course in jazz dance technique at a more advanced intermediate level.

DN 300. Special Topics. 1-3 sem. hr.
Study of dance theories and principles for performance,choreography or pedagogy. Permission of instructor.

DN 301. Special Topics II. 1-3 sem. hr.
This course will focus on one area of dance such as technique, repertoire, composition or pedagogy in order to facilitate a more advanced analysis of that specific area.

DN 310. Dance Styles III. 3 sem. hrs.
A studio course in various dance styles used for concert dance or theatrical productions. For Musical Theatre majors. May be repeated for a maximum of 6 hours.
Prerequisite(s): DN 210.

DN 311. Modern Dance Technique III-A. 3 sem. hrs.
Development of modern dance technique at the advanced level.
Prerequisite(s): DN 211 or DN 212.

DN 312. Modern Dance Technique III-B. 3 sem. hrs.
Development of advanced modern dance technique, preparing the student for pre-professional work.
Prerequisite(s): DN 211 or DN 212.

DN 321. Ballet Technique III-A. 3 sem. hrs.
Advanced ballet technique including ladies' pointe work and men's technique.

DN 322. Ballet Technique III-B. 3 sem. hrs.
Continuation of advanced ballet technique including ladies' pointe work and men's technique.

DN 351. Jazz Technique III-A. 3 sem. hrs.
This course will cover jazz dance technique at a more advanced level. this class will focus on technique in order to prepare the student for higher level jazz classes that emphasize performance elements.
Prerequisite(s): DN 251 or DN 252.

DN 352. Jazz Technique III-B. 3 sem. hrs.
Development of advanced jazz dance technique preparing the student for professional work.
Prerequisite(s): DN 251 or DN 252.

DN 380. Independent Study In Dance. 3 sem. hrs.

DN 381. Indep Study In Dance. 3 sem. hrs.

DN 400. Special Topics. 3 sem. hrs.
Prepare dancers for a professional career in dance performance through the rehearsal process of learning and performing, ballet, modern and jazz dance repertoire.

DN 410. Advanced Tap Technique. 3 sem. hrs.
An advanced course focusing on tap dance language and the execution of advanced tap technique.
Prerequisite(s): DN 210 and DN 310.

DN 411. Modern Dance Technique IV-A. 3 sem. hrs.
Continued development of modern dance technique at the advanced level.
Prerequisite(s): DN 311 or DN 312.

DN 412. Modern Dance Technique IV-B. 3 sem. hrs.
Continued development of advanced modern dance technique, preparing the student for professional work.
Prerequisite(s): DN 311 or DN 312.

DN 421. Ballet Technique IV-A. 3 sem. hrs.
Advanced ballet technique including rehearsal and performance of ballet variations in preparation for professional work.
Prerequisite(s): DN 321 or DN 322.

DN 422. Ballet Technique IV-B. 3 sem. hrs.
Continued development of ballet technique and variations preparing the student for professional work.
Prerequisite(s): DN 321 or DN 322.

DN 440. Choreography III. 3 sem. hrs.
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.
Prerequisite(s): DN 340 and TH 290 and TH 324.

DN 451. Jazz Technique IV-A. 3 sem. hrs.
This course is jazz dance technique at the advanced/pre-professional level. Will focus on elements of technique and style for concert, commercial, and musical theatre jazz. Special attention will be given to developing performance qualities.
Prerequisite(s): DN 352 and DN 351.

DN 452. Jazz Technique IV-B. 3 sem. hrs.
Advanced jazz dance technique preparing the student for professional work.
Prerequisite(s): DN 352.

Dance Academics (DNCA) Courses

DNCA 240. Choreography I. 3 sem. hrs.
Basic exploration of the rhythmic and spatial elements in the development of movement phrases and choreographic dance studies.

DNCA 265. Anatomy For Dance. 3 sem. hrs.
Lecture/studio course covering the basics of the musculoskeletal system and dance kinesiology.

DNCA 340. Choreography II. 3 sem. hrs.
Exploration in more complex choreographic forms and compositions.
Prerequisite(s): DNCA 240 or DN 240.

DNCA 403. Approach Dance Instructn. 3 sem. hrs.
A course developing techniques for teaching of ballet, modern, and jazz dance styles.
Prerequisite(s): DNCA 265 or DN 265.

DNCA 440. Choreography III. 3 sem. hrs.
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.
Prerequisite(s): DNCA 340 or DN 340; and TH 324.

DNCA 470. History Of Dance I. 3 sem. hrs.
The history of dance from pre-classic, romantic, classical and early modern ballet.

DNCA 471. History of Dance II. 3 sem. hrs.
The history of dance with an emphasis on 20th century and contemporary dance styles.
Prerequisite(s): DNCA 470.

Dutch (DUT) Courses

DUT 101. Elementary Dutch. 3 sem. hrs.
Contemporary Dutch: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

DUT 102. Elementary Dutch. 3 sem. hrs.
Contemporary Dutch: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): DUT 101.

DUT 202. Intermediate Dutch. 3 sem. hrs.
Continuation of DUT 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): DUT 102.

English (EN) Courses

EN 099. Basic Writing. 3 sem. hrs.

EN 100. Basic Writing. 3 sem. hrs.
Fundamentals of expository writing. EN 100 is designed for students who feel uncertain of their readiness for EN 101. Students may place themselves into EN 100, and should consider this course if they scored at or below 16 ACT English or 400 SAT verbal. EN 100 does not count toward core writing composition (FC) requirements but allows students to earn elective credit while strengthening their writing skills prior to taking EN 101. Students who do not earn grades of C- or higher in this course will be assigned grades of NC (No Credit).

EN 101. English Composition. 3 sem. hrs.
Introduction to college-level expository writing, critical reading, and preliminary research techniques, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 101 does not apply as credit to the English major or minor.

EN 102. English Composition. 3 sem. hrs.
Intermediate college-level expository writing covering the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 102 does not apply as credit to the English major or minor.
Prerequisite(s): EN 101.

EN 103. Advanced English Composition. 3 sem. hrs.
This is an accelerated freshman composition course that is open to students with minimum composite scores of 28 ACT Composite or 1250 SAT, or minimum ACT English scores of 30 or SAT verbal scores of 720. With the appropriate qualifying scores and the completion of EN 103 with a grade of C- or higher, placement credit is awarded for EN 101 and the general education requirement for freshman composition is completed. Expository writing. Topics to be determined by each instructor. Grades are reported as A, B, C, or NC (No Credit). A grade of C- is required as a prerequisite for advancing to another English course at The University of Alabama. EN 103 does not apply as credit to the English major or minor.
Prerequisite(s): 28 ACT composite or 1250 SAT OR ACT English score of 30 or SAT verbal score of 720.

EN 104. English Composition BUI. 3 sem. hrs.
College-level expository writing, critical reading, and library research. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). This course substitutes for either EN 103 Advanced Composition or EN 101 Freshman Composition I. Students who qualify for EN 103 (a score of 28 or higher on the ACT or 1240 on the SAT) are awarded an additional 3 hours of composition credit with a grade of "pass" upon successful completion of EN 104. Other students receive the same credit if they earn a grade of "A-" or higher. Students who earn a grade lower than "A-" are required to take three additional hours of freshman composition, generally EN 102. Students who have credit for EN 101 and EN 102 either from another institution or through AP or IB placement do not take EN 104. EN 104 does not apply as credit to the English major or minor.

EN 120. English Comp I Non Native Spkr. 3 sem. hrs.
The first in a two-course sequence, EN 120 introduces non-native English speakers to college-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered every semester.

EN 121. English Comp II Non-Native Spk. 3 sem. hrs.
The second course in UA's first-year sequence in composition, EN 121 introduces non-native English speakers to the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered each semester.
Prerequisite(s): EN 120.

EN 155. Freshman Seminar. 3 sem. hrs.

EN 200. Intro Creative Writing. 3 sem. hrs.
Study of topics relating to all genres of creative writing; introduction of genre-specific principles. Required of all creative writing minors. Credit for this course is not applicable toward the requirements of the English major or minor.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 205. English Literature I. 3 sem. hrs.
Survey of English literature from the Anglo-Saxon period to 1800, including, Chaucer, Shakespeare, and Milton.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 206. English Literature II. 3 sem. hrs.
Survey of English literature from 1800 to the present, including, works from the Romantic, Victorian, and Modern eras.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 207. World Literature I. 3 sem. hrs.
Survey of world literature from the Classical period to the Renaissance.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104 or EN 120 and EN 121.

EN 208. World Literature II. 3 sem. hrs.
Survey of world literature from the Enlightenment to the Modern period.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104 or EN 120 and EN 121.

EN 209. American Literature. 3 sem. hrs.
Survey of American literature from its beginnings to 1865, including, work by Poe, Thoreau, Emerson, Melville, and Whitman, among others.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 210. American Literature II. 3 sem. hrs.
Survey of American literature from 1865 to the present, including, work by Dickinson, Twain, Hemingway, Faulkner, and Morrison.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 215. Honors English Literature I. 3 sem. hrs.
Honors section of EN 205.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 216. Honors English Literature II. 3 sem. hrs.
Honors section of EN 206.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 219. Honors American Literature. 3 sem. hrs.
Honors section of EN 209.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 220. Honors American Literature II. 3 sem. hrs.
Honors section of EN 210.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 249. African American Literature. 3 sem. hrs.
Survey of African American literature from its earliest expressions to the present. The course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 300. Intro To English Studies. 3 sem. hrs.
An introduction for English majors to the methods employed in the discipline of English. Students will be exposed to the fundamental issues of critical reading, interpretation, and writing, especiall to the use of critical methods in the study of primary texts. Readings will include a selection of texts in the traditional categories of poetry, drama, and prose, as well as the genre of the critical essay. There may also be investigations into other genres and media.

EN 301. Prose Tour. 3 sem. hrs.
Study of basic principles of composing creative prose. Reading and assigned writing experiments in a broad range of prose forms. Required of all creative writing minors.
Prerequisite(s): EN 200.

EN 303. Poetry Tour. 3 sem. hrs.
Study of basic principles of composing poetry. Reading and assigned writing experiments in a broad range of poetic forms. Required of all creative writing minors.
Prerequisite(s): EN 200.

EN 309. Advanced Expository Writing. 3 sem. hrs.
Study and practice in methods of exposition, explanation and explication, logic and persuasion, definition and analogy, analysis and evaluation. Enrollment is limited to 15. Writing proficiency within this discipline is required for a passing grade in this course.

EN 310. Special Topics Writing. 3 sem. hrs.
Topics vary from semester to semester; examples are legal writing, writing about the social sciences and reading and writing in cyberspace. May be repeated once for credit.

EN 311. Special Topics In Literature. 3 sem. hrs.
Topics vary from semester to semester and may include courses offered by other departments.

EN 317. Writing Center Practicum. 3 sem. hrs.
An introduction to the history, theory and practice of Writing Centers. Students completing the course can apply for positions on the Writing Center staff.

EN 319. Technical Writing. 3 sem. hrs.
Focuses on principles and practices of technical writing, including audience analysis, organization and planning, information design and style, usability testing, and collaborative writing. Writing proficiency within this discipline is required for a passing grade in this course.

EN 320. Intro To Linguistics. 3 sem. hrs.
Introduction to the study of language, including subjects such as language acquisition, variation, and origins. The system of sounds, syntax, and meaning are illustrated in English and other languages. Prerequisite for EN 466.

EN 321. Linguis Approach English Gramr. 3 sem. hrs.
A study of English grammar integrating principles from linguistic theory with structural approaches to grammar. The course includes a focus on the expectations of grammatical usage in different contexts and an understanding of how to apply this knowledge in a pedagogical setting. This course is a prerequisite for EN 466.

EN 329. Directed Studies. 1-3 sem. hr.
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies. A reading list and a draft syllabus are required. Please see the departmental website for more information.

EN 330. Chaucer And Medieval Literatur. 3 sem. hrs.
Examines works of the Old and Middle English Periods, the formative years of British literature. Works from pre-conquest England may include Beowulf, Bede's History of the English Church, and poems from the Exeter and Vercelli manuscripts. The major works from the fourteenth and fifteenth centuries may include Sir Gawain and the Green Knight, William Langland's Piers Plowman, John Gower's Confessio Amantis, and Chaucer's Troilus and Criseyde and the Canterbury Tales.

EN 331. Chaucer. 3 sem. hrs.
Introduction to the works of Chaucer. This course includes a study of Chaucer's language as well as the 14th-century milieu.

EN 332. Sixteenth Century Literature. 3 sem. hrs.
A cross-genre survey of the literature of the Elizabethan period. Authors may include Sir Thomas More, Sir Thomas Wyatt, Sir Philip Sidney, Sir Walter Raleigh, Edmund Spenser, Aemilia Lanyer, Christopher Marlowe, and William Shakespeare.

EN 333. Shakespeare. 3 sem. hrs.
An introduction to Shakespeare's plays and poems. Elizabethan customs, politics, history, and philosophies are examined in relation to his works.

EN 334. Seventeenth Century Literature. 3 sem. hrs.
A cross-genre survey of literature in English from 1603 to 1660. Authors may include John Donne, Ben Jonson, Francis Bacon, John Webster, Lady Mary Wroth, William Bradford, Anne Bradstreet, and Andrew Marvell.

EN 335. Milton. 3 sem. hrs.
An introduction to Milton's English poetry along with the history, politics, aesthetics, philosophy, and theology of seventeenth-century England. Typically devotes approximately half the semester to a close reading of Paradise Lost.

EN 340. American Literature To 1900. 3 sem. hrs.
A cross-genre survey of American literature from its beginnings to 1900. Authors may include Mary Rowlandson, Cotton Mather, Phillis Wheatley, Nathaniel Hawthorne, Frederick Douglass, Henry James, and Mark Twain.

EN 341. American Poetry To 1900. 3 sem. hrs.
A survey of American poetry from its beginnings to 1900. Authors may include Anne Bradstreet, Edward Taylor, Edgar Allan Poe, Walt Whitman, and Emily Dickinson.

EN 342. American Fiction To 1900. 3 sem. hrs.
A survey of the development of American fiction from its beginnings to 1900, with attention to both the novel and the short story. Authors may include James Fenimore Cooper, Nathaniel Hawthorne, Harriet Beecher Stowe, Herman Melville, Mark Twain, and Kate Chopin.

EN 343. British Fiction To 1900. 3 sem. hrs.
A survey of developments in British fiction from its beginnings to 1900. Authors may include Aphra Behn, Daniel Defoe, Samuel Richardson, Henry Fielding, Jane Austen, Charles Dickens, and George Eliot.

EN 344. Major Authors 1660-1900. 3 sem. hrs.
Limited to a maximum of three authors. Attention to the national literatures of Britain and America, and to different genres of prose, drama, and poetry, will vary from semester to semester. Authors may include John Milton, Alexander Pope, Jane Austen, Ralph Waldo Emerson, Herman Melville, Frederick Douglass, and Emily Dickinson.

EN 347. English Lit During Enlightenmt. 3 sem. hrs.
A cross-genre survey of English literature during the period 1660-1800. Authors may include John Locke, John Bunyan, Mary Astell, Jonathan Swift, Lady Mary Wortley Montagu, Samuel Johnson, Hester Thrale, and James Boswell.

EN 348. Romantic Literature. 3 sem. hrs.
A cross-genre survey of British Romantic writers such as William Blake, Jane Austen, William Wordsworth, Samuel Taylor Coleridge, Lord Byron, John Keats, Percy Bysshe Shelley, and Mary Shelley.

EN 349. Victorian Literature. 3 sem. hrs.
A survey of the genres, authors, and issues in British literature, 1832-1900. Authors may include Thomas Carlyle, Elizabeth Barrett Browning, Robert Browning, Alfred, Lord Tennyson, Matthew Arnold, Dante Gabriel Rossetti, Christina Rossetti, and Oscar Wilde.

EN 350. Topics In African American Lit. 3 sem. hrs.
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

EN 360. Topics American Lit 1900-1945. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in America. Authors may include Henry James, Mark Twain, Edith Wharton, W.E.B. Du Bois, Gertrude Stein, Countee Cullen, Eugene O'Neill, and Wallace Stevens.

EN 361. Top American Lit 1945-Present. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in America. Authors may include Langston Hughes, Arthur Miller, James Baldwin, Norman Mailer, Toni Morrison, Sam Shepherd, Adrienne Rich, and John Ashbery.

EN 362. Topics British Lit 1900-1945. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in Britain. Authors may include Joseph Conrad, George Bernard Shaw, W. B. Yeats, Virginia Woolf, James Joyce, Katherine Mansfield, and T. S. Eliot.

EN 363. Top British Lit 1945-Present. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in England. Authors may include Samuel Beckett, W. H. Auden, Doris Lessing, Seamus Heaney, Harold Pinter, and Jeanette Winterson.

EN 364. Modern Drama. 3 sem. hrs.
A survey of the major American, British, European and African plays from the 19th and 20th centuries. Authors may include Eugene O'Neill, Tennessee Williams, Ntozake Shange, Oscar Wilde, Harold Pinter, Tom Stoppard, August Strindberg, Anton Chekhov, Wole Soyinka and Athol Fugard.

EN 365. Modern American Fiction. 3 sem. hrs.
A survey of American fiction (novels and short stories) written in the 20th century. Authors may include F. Scott Fitzgerald, Willa Cather, William Faulkner, Toni Morrison, N. Scott Momaday and Leslie Marmon Silko.

EN 366. Twentieth Century Poetry. 3 sem. hrs.
A survey of major authors and trends in modern poetry in America, Britain, and the larger Anglophone world, as poetry in English became an international phenomenon. Attention will be paid to modernist and post-modernist poetry movements, American regionalisms, war poetry, and the poetry of neocolonial experiences.

EN 368. Modern British Fiction. 3 sem. hrs.
A survey of the twentieth-century novels and short stories produced by leading British and Irish writers. Authors may include James Joyce, Virginia Woolf, George Orwell, Iris Murdoch, A. S. Byatt, Martin Amis, V.S. Naipaul, Edna O'Brien, and J.M. Coetzee.

EN 371. Tragedy. 3 sem. hrs.
A cross-genre survey of tragic literature that may begin with the classical tragedians and proceed through the present. This course, like tragedy itself, will focus on the individual confronting the larger forces of society, god, or fate. This course considers changing conceptions of the tragic whether in fiction, poetry, or drama.

EN 373. Women In Literature. 3 sem. hrs.
A survey of British and American literature written by and/or about women. Authors may include a cross-genre range from Anne Bradstreet and Fanny Burney to Toni Morrison and Louise Erdrich.

EN 399. Honors Seminar in English. 3 sem. hrs.
Covers selected topics in English that vary from year to year. Topics are most likely to be thematic and to cut across conventional divisions of literary period and literary form. Required for departmental honors.
Prerequisite(s): EN 215 and EN 216 or EN 219 or EN 220.

EN 400. Senior Seminar. 3 sem. hrs.

EN 408. Advanced Creative Writing. 3 sem. hrs.
Special topics in imaginative writing. Focus may be on poetry, fiction, non fiction or a combination. Students produce imaginative writing and read related texts.
Prerequisite(s): EN 200 and EN 301 and EN 303.

EN 409. Writing For Film. 3 sem. hrs.
Introduction to the craft of writing for film and television.

EN 410. Writing Professional Non-Fict. 3 sem. hrs.
Study of imaginative prose engaged with factual subject matter. Reading of published creative nonfiction and assigned writing experiments will complement round table discussion and criticism of original student manuscripts.

EN 411. Adv Stdy Comptv Multi-Cutl Lit. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues involving comparative literatures and/or cultural studies. Writing proficiency within this discipline is required for a passing grade in this course.

EN 422. Adv Studies Americ Literature. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in American literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 423. History of the English Language. 3 sem. hrs.
An introduction to the external history of the English language along with the study of the accompanying internal changes in structure.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 424. Structure Of English. 3 sem. hrs.
Advanced study of the structure and usage of the English language, focusing on issues of morphology, syntax, and discourse context. Offered each fall semester.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 425. Variation in American English. 3 sem. hrs.
The study of the experience of the English language in America with particular emphasis on its development and dialects.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 429. Directed Readings. 3 sem. hrs.
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies.

EN 430. English Internship. 3-6 sem. hrs.
An on- or off-campus training position in which students use the skills they have gained as English majors and enhance their employment opportunities after graduation. Interns work approximately 10 hours a week, holding responsible positions with, among others, Alabama Heritage, Alabama Alumni Magazine, and the Tuscaloosa Public Defender's Office. Apply to the director of undergraduate studies in the Department of English. Please see the departmental website for the application form and further details.

EN 433. Advanced Studies British Lit. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in British literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 444. Adv Stdy Literary Crit/Theory. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues involving literary criticism and critical theory. Writing proficiency within this discipline is required for a passing grade in this course.

EN 455. Advanced Studies In Writing. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on the process of writing. The forms this writing may take include, but are not limited to, film, creative non-fiction, autobiography, and local color. May be repeated a maximum of 9 hours.

EN 456. Writing Center Theory and Research. 3 sem. hrs.
This course augments the professional practice of Writing Center staff with assigned readings, writing assignments, and discussions. Theory and research intensive.

EN 466. Advanced Studies In Linguistics. 3 sem. hrs.
Designed for English majors, a special topics course that focuses on issues in linguistics. A frequent topic is language and culture.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 477. Adv Studies Literary Genres. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in genre criticism. Writing proficiency within this discipline is required for a passing grade in this course.

EN 488. Adv Stdy African American Lit. 3 sem. hrs.
Designed for the advanced English major, a special topics course that focuses on issues in African American literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 499. Honors Thesis. 3 sem. hrs.
The Honors Thesis in English course is an individualized, directed readings class that culminates in a 30-50 pp. thesis. It is the final required course for the Honors in English program. Each student enrolled will work individually with a faculty mentor.
Prerequisite(s): EN 399.

Farsi (FRS) Courses

FRS 101. Elementary Farsi I. 3 sem. hrs.
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

FRS 102. Elementary Farsi II. 3 sem. hrs.
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): FRS 101.

FRS 201. Intermediate Farsi I. 3 sem. hrs.
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without persmion of the CLC director.
Prerequisite(s): FRS 102.

FRS 202. Intermediate Farsi II. 3 sem. hrs.
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without persmion of the CLC director.
Prerequisite(s): FRS 201.

Fine Arts (FA) Courses

FA 200. Introductn To Fine Arts. 3 sem. hrs.
An introduction to the fine arts, drawing especially on campus and community cultural events. This course is usually open to incoming freshmen.

Finnish (FIN) Courses

FIN 101. Elementary Finnish I. 3 sem. hrs.
Contemporary Finnish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

French (FR) Courses

FR 101. Elementary French I. 4 sem. hrs.
For students with no background or previous study of French. This course focuses on developing communicative abilities in French while emphasizing cultural practices and perspectives. Not open to students who have completed 2 or more years of high school French. Offered each semester.

FR 102. Elementary French II. 4 sem. hrs.
Continuation of FR 101. This course focuses on further enhancing communicative abilities, cultural practices and perspectives in French. Offered each semester.

FR 103. French 1st Year Review. 4 sem. hrs.
Five hours of instruction per week. Intensive review and accelerated study of French at the first- and second-semester college level.

FR 201. Intermediate French. 3 sem. hrs.
Course goals include improvement of reading and writing proficiency, listening comprehension, and speaking skills. Offered each semester.
Prerequisite(s): FR 102 OR FR 103.

FR 202. Intermediate French. 3 sem. hrs.
Continuation of FR 201. Preparation for advanced literature, linguistics, and culture courses.
Prerequisite(s): FR 201.

FR 205. Living In French House. 1-2 sem. hr.
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 206, or 321, or 322, or 323, or 324, or 328, or 329.

FR 206. Living In French House. 1-2 sem. hr.
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 205, or 321, or 322, or 323, or 324, or 328, or 329.

FR 321. Voices In French. 3 sem. hrs.
Introduction to literary and cultural analysis through selected works of French cultural expression. Emphasis on expanding vocabulary and improving grammar in order to develop speaking, reading, and writing proficiency beyond the second year. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the fall semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202.

FR 322. Advanced French Grammar. 3 sem. hrs.
Review of French grammar with emphasis on written exercises. Study abroad equivalent: FR 329. Offered each semester.
Prerequisite(s): FR 202.

FR 323. Text, Image, And Word. 3 sem. hrs.
Contemporary French and Francophone society and culture. Continued work in literary and cultural analysis through selected works of recent cultural media (journalism, literature, music, film). Emphasis on written exposition, oral proficiency, critical thinking, grammar review. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the spring semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202.

FR 324. Commercial French. 3 sem. hrs.
French business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): FR 202.

FR 328. French Conversation-Abroad. 3 sem. hrs.
Contemporary French society and culture. Direct on-site cultural exposure. Analysis of recent cultural media (e.g., journalism, literature, song, film) in context. Emphasis is on written exposition, oral proficiency, grammar review, and critical appraisal in relation to an immersion experience in French culture. Offered in France. For purposes of satisfying the requirements of the French major or minor, this course can be used in lieu of either FR 321 or FR 323.

FR 329. Adv Fr Grammar-Abroad. 3 sem. hrs.

FR 331. French Civilization. 3 sem. hrs.
The course is also taught abroad as FR 339. Study of French artistic heritage and development of social and political institutions. Offered alternate spring semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 339. French Civilizatn-Abroad. 3 sem. hrs.

FR 341. Survey Fr Literature I. 3 sem. hrs.
French literature from its origins through the 18th century. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 351. Survey Fr Literature II. 3 sem. hrs.
French literature of the 19th and 20th centuries. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323.

FR 361. Intro Romance Linguistic (Same as IT 361 and SP 361). 3 sem. hrs.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

FR 380. Special Topics. 1-3 sem. hr.
Directed reading, research, or French Immersion Retreat. Also offered within the curriculum for the Alabama-in-France summer program. Topic to be determined in consultation with the instructor or program director.

FR 421. Pronunciation & Phonetics. 3 sem. hrs.
Introduction to phonetic theory and corrective phonetics through auditory discrimination exercises and contrastive analysis; emphasis on mastery of oral skills. Offered each semester.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 431. Contemp French Civiliztn. 3 sem. hrs.
Exploration of the political, technological, and cultural movements of France from 1871 to the present. Offered alternate spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323.

FR 461. French Linguistics. 3 sem. hrs.
Linguistic theory applied in the analysis and description of French phonological, morphological, syntactic, and semantic structures. Offered alternate years.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 470. Undergrad Sem In French. 3 sem. hrs.
Intensive examination of a selected topic, with emphasis on student research and presentations. A representative sample of topics would include: Francophone Africa, The 19-Century French Novel, French-English Translation, and Poetry of the French Renaissance. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323.

FR 480. Special Topics. 3 sem. hrs.
Directed reading or research related to French and Francophone language, literature and culture. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323.

FR 484. Adv Converstn Phonetics. 3 sem. hrs.
Emphasis is on improvement of oral expression in a variety of contexts. Consideration of phonetics as it serves this goal.
Prerequisite(s): FR 321 or FR 322 or FR 323.

Freshman Learning Community (FLC) Courses

FLC 101. Freshman Learn Comm Seminar. 1,2 sem. hr.
This course accompanies freshman learning communities and offers expanded opportunities for collaborative and integrated learning related to the communities.

General Studies (GS) Courses

GS 111. Academic Skills. 1-3 sem. hr.
A one-, two-, or three-part course in academic skills for students eligible for the Student Support Services Program. Enrollment in each of the components is based on a diagnosed need. Offered in the fall and spring semesters.

GS 391. Exceptional Studies. 1-6 sem. hr.
Independent study and/or research on an approved topic, under the direction of a College of Arts and Sciences faculty member. The subject matter, methodology, goals, and objectives of the study are intended to be unique.

GS 491. Academic Internship. 1-3 sem. hr.
Students work with a faculty member on a planned and supervised activity related to the instructional, research, or service functions of the College of Arts and Sciences.

Geography (GY) Courses

GY 101. Atmospheric Proc & Patterns. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

GY 102. Earth Surface Processes. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

GY 105. World Regional Geography. 3 sem. hrs.
Introduction to geography through a survey of the world's major geographic regions. Examines their physical and cultural features, economies, and populations.

GY 110. Prin Human Geography. 3 sem. hrs.
Introduction to geography as a science for learning the fundamentals of human behavior and decision making. Examines how human events, natural resources, economies, development, and urbanization impact the way humankind lives, organizes its space, and makes decisions for the future.

GY 155. Freshman Seminar. 3 sem. hrs.
Analysis of selected contemporary global issues and forces that shape our local communities and the world in which we live, including population, natural resources, agriculture, environmental change, and terrorism.

GY 200. Principles Of Planning. 3 sem. hrs.
Survey of the basic elements of regional and urban planning. Provides a comprehensive overview of the planning profession.

GY 204. Map & Air Photo Interpretation. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Fundamentals of map reading and interpretation.

GY 317. Natural Hazards. 3 sem. hrs.
Examination of the causes, consequences, and spatial distribution of climatic, geomorphic, and human-induced natural hazards.
Prerequisite(s): GY 101 or GY 102.

GY 330. Computr Mapping Graphics. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduction to computer graphics and their application in both the natural and social sciences, with special emphasis on mapping. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 339. Natural Resource Envirmn Plang. 3 sem. hrs.
Analyzes human interactions with the physical environment and ways of dealing with them. Integrates environmental science, social science, and planning, and includes environmental impact assessment.

GY 341. Geography Of Us And Canada. 3 sem. hrs.
Study of the physical and human geography of the United States and Canada.

GY 344. Geography Of Africa. 3 sem. hrs.
Study of the physical and human geography of Africa.

GY 346. Geography of Europe. 3 sem. hrs.
This course is designed to provide a regional survey of Europe in terms of economic activities and the physcial environment. Special emaphasis is on the historical development of European landscapes.

GY 351. Geography Of Alabama. 3 sem. hrs.
Study of the varied geographical dimensions of the state of Alabama, both past and present.

GY 358. Urban Geography. 3 sem. hrs.
Examines the growth of cities, their spatial distributions, internal dynamics, functional bases, and social and political patterns.
Prerequisite(s): GY 110.

GY 363. Geomorphology. 3 sem. hrs.
Study of physical, chemical and biological processes operating at the Earth's surface and landforms, and the landscapes such processes develop.
Prerequisite(s): GY 102 or GEO 101.

GY 365. Industrial Develop & Location. 3 sem. hrs.
Systematic study of the principles and processes underlying the development, location, and spatial organization of economic activities from both a national and international perspective. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): GY 110.

GY 370. Special Topics. 3 sem. hrs.

GY 377. Cultural Geography. 3 sem. hrs.
Study of the way in which culture influences elements of both physical and human landscapes with emphasis on how cultures are spread over space and how cultures make sense of space.
Prerequisite(s): GY 105 or GY 110.

GY 402. Climatology. 3 sem. hrs.
Introduce the fundamentals of the earth-atmosphere system as they comprise the climate of Earth, drive spatral and temporal climate variability, and impact human life.
Prerequisite(s): GY 101.

GY 404. Physical Geography Seast Us. 3 sem. hrs.
A study of the physical landscapes in the southeastern United States. Emphasis is on the geological setting, geomorphic features, climate, soils, and vegetation, and the interrelationships of these conditions that shape the landscape in this region.
Prerequisite(s): GY 101 and GY 102; or GEO 101.

GY 405. Dir Res Physical Geog. 1-3 sem. hr.
Hands-on, problem solving in the field of physical geography.

GY 406. Dir Res Human Geography. 1-3 sem. hr.
Hands-on, problem solving in the field of human geography.

GY 407. Boundary Layer Climates. 3 sem. hrs.
Introduce the nature of the atmosphere near the ground and the interactions these processes have with the physical, biological, and human systems on Earth.
Prerequisite(s): GY 402.

GY 409. Forest History and Restoration. 4 sem. hrs.
This course covers the theories, tools and techniques used in historical ecology with a focus on the establishment of reference conditions for habitat conservation and restoration efforts.
Prerequisite(s): GY 101 or GY 102.

GY 412. Hydroclimatology. 3 sem. hrs.
To provide a basic understanding of the waters of Earth, especially with relation to the effects of precipitation and evaporation upon the occurence and character of water in streams, lakes and on or below the land surface
Prerequisite(s): GY 101 and GY 402.

GY 413. Applied Climatology. 3 sem. hrs.
Applied Climatology is a senior level course designed to expand upon fundamental concepts learned in GY 101 and also GY 402 (Climatology). Within this broad field, a specific focus in GY 413 concentrates upon climate and human health/behavior. The course contains a mixture of lecture, lab, and field assignments.
Prerequisite(s): GY 101.

GY 420. Remote Sensing I. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduction to the basic principles of electromagnetic radiation, interaction between energy and earth features, remote sensing instruments, and information extraction from remotely sensed data. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 424. Cartography Practicum. 3-9 sem. hrs.
Individual work experience in cartography, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 424 cannot be applied to the geography minor.

GY 425. Cartography Internship. 3-9 sem. hrs.
Individual work experience on a cartographic project, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 425 cannot be applied to the geography minor.

GY 430. Intro Geographic Info Systems. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduces the basic concepts of GIS, including definition and components of GIS, spatial data structures, data sources, data input, manipulation and analysis, applications of GIS, and managing GIS. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 431. GIS in Emergency Management. 4 sem. hrs.
Addresses geo-spatial data, methods, and software used in mitigation, planning, response, and recovery phases of emergency management. Case studies and scenarios are drawn from meteorological, environmental, geological, and biological hazards and disasters.
Prerequisite(s): GY 430.

GY 432. Spec Research In Geog. 1-4 sem. hr.

GY 433. Gis Practicum. 3-9 sem. hrs.
Individual work experience in GIS, supervised by the faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 433 cannot be applied to the geography minor.

GY 434. Gis Internship. 3-9 sem. hrs.
Individual work experience in GIS, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 434 cannot be applied to the geography minor.

GY 435. Remote Sensing II. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Analysis and extraction of thematic information from nonphotographic remotely sensed data for geographic information systems. Topics include image processing, image enhancement, and image classification. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 420.

GY 436. Adv Geographic Info Syst. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Evaluation of case studies, spatial model development, and database design for geographic information systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 430.

GY 438. Application Issues In Gis. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. In-depth study of various topics in the application and technical issues of geographic information systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 430.

GY 440. Commun Facil Planning. 3 sem. hrs.
Principles, processes, and analysis of public facility location planning, with emphasis on the spatial search process, impact analysis, and public facility location models.

GY 441. Land Use Regulations. 3 sem. hrs.
Theory and use of zoning, eminent domain, taxing and police powers, enabling acts, charters, official maps, codes, nuisance ordinances, and environmental impact statements in community planning.
Prerequisite(s): GY 200.

GY 442. GIS in Biogeography. 4 sem. hrs.
Addresses the application of GIS data and methods in analyzing geographic distribution and trends of plants and animals. Labs draw data and methods from a variety of biogeographic contexts including historical, modern, terrestrial, marine, conservation, and climate change.
Prerequisite(s): GY 430.

GY 444. Field Studies In Africa. 6 sem. hrs.
Three-week intensive field study in Ghana. Explores geographical perspectives on Africa's level of development and the responses of the African peoples to their circumstances.

GY 452. Environ Decision Making. 3 sem. hrs.
Review of the history of natural resources in the U.S. and current environmental topics, followed by discussion of techniques to facilitate environmental decision making and management.

GY 453. Environment & Society. 3 sem. hrs.
Exploration of the linkages between the biophysical environment and human social systems. Public policy implications are viewed from a social science perspective. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): GY 110.

GY 455. Planning Practicum. 3-9 sem. hrs.
Individual work experience in planning, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 455 cannot be applied to the geography minor.

GY 456. Planning Internship. 3-9 sem. hrs.
Individual work experience in planning, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 456 cannot be applied to the geography minor.

GY 458. Urban Planning And Analysis. 3 sem. hrs.
A study of contemporary urban landscapes, political and economic power structures, and resultant conflicts. Includes an in-depth analysis of the role of externalities, the urban planner, urban policymaking, and analytical methods in the planning and administration of urban landscapes.

GY 460. Environmental Management. 3 sem. hrs.
Introduces students to the impact of humans on the planet and the patterns of human behavior necessary to preserve and manage the environment in a self-sustaining manner. Emphasis is on writing and speaking.
Prerequisite(s): GY 101.

GY 461. Social Impact Assessment. 3 sem. hrs.
This course focuses on the theories, philosophies, and methodologies of assessing the social consequences of environmental change.
Prerequisite(s): GY 101 and SOC 101.

GY 465. Region Planning Analysis. 3 sem. hrs.
Principles and processes of regional planning and the analytical methods appropriate for solving regional planning problems. Case studies and the role of the planner in the regional planning process are discussed.

GY 466. Region Urban Transport Systems. 4 sem. hrs.
Examines the location and function of the multimodal North American transportation system, the urban transportation planning process and methodologies. Assesses the political and environmental contexts of transport systems, including impacts of continued reliance on the automobile.

GY 470. Special Topics. 3 sem. hrs.

GY 472. Soil Science. 4 sem. hrs.
Three hours lecture and required field and lab work. Introduction to the study of soils, including soil formation, classification, and the interpretation of soils to reconstruct environmental histories.

GY 483. Environment Science Internship. 3-9 sem. hrs.
Individual work experience in environmental science, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 483 cannot be applied to the geography minor.

GY 486. Watershed Dynamics. 3 sem. hrs.
An examination of the physical operation of watersheds focusing on surface water hydrology, erosion, and sedimentation.
Prerequisite(s): GY 102.

GY 488. Planning & Government. 3 sem. hrs.
Examines the planning process within the context of local government.
Prerequisite(s): GY 200.

GY 489. Forest Ecology Veg Analy. 4 sem. hrs.
Three hours lecture and required field work. Study of the nature of forest communities and the interrelationship of organisms that compose them.

GY 490. Geography Internship. 3-9 sem. hrs.
Work experience in an agency involved in geographical analysis. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 490 cannot be applied to the geography minor.

GY 492. Eastern Forest Communities. 4 sem. hrs.
This course is focused on the biotic and abiotic elements that create distinct forest communities throughout the Central Hardwood and Southern Mixed Forest Regions of the eastern UA. The class includes lecture, lab, and field formats.
Prerequisite(s): GY 101 or GY 102 or BSC 114.

GY 493. Plant Geography. 4 sem. hrs.
This course covers basic biotic and abiotic terrestrial ecosystem components, environmental gradients, plant distribution patterns, dispersal, colonization, and migration, disturbance processes, and applications to biodiversity conservation.
Prerequisite(s): GY 101 or GY 102 or BSC 114.

GY 494. Forest Measurement and Analysis. 4 sem. hrs.
Prerequisite(s): GY 489 or BSC 385.

Geological Sciences (GEO) Courses

GEO 101. The Dynamic Earth. 4 sem. hrs.
'Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.

GEO 102. The Earth Through Time. 4 sem. hrs.
Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.

GEO 104. Hazardous Earth. 4 sem. hrs.
This natural science course examines geologic and other Earth hazards that impact humans and ways that human activities often increase these hazards. The course consists of lecture and lab, and includes field trips and videos that illustrate various natural hazards.

GEO 105. Sustainable Earth. 4 sem. hrs.
Three lectures and one laboratory. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment. Includes discussion of water pollution, air pollution and waste disposal as primary issues related to resource utilization.

GEO 210. Mineralogy. 4 sem. hrs.
Two lectures and two laboratories. Introduction to crystallography, crystal chemistry, rock-forming minerals, physical properties of minerals, hand sample mineral identification, and optical mineralogy. Offered in the fall semester.
Prerequisite(s): CH 101 and GEO 101.

GEO 306. Hydrogeology. 3 sem. hrs.
Introduction to the principles of groundwater flow, groundwater exploration, water quality, and groundwater contamination; environmental topics in groundwater. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 314. Ign. & Meta. Petrology. 4 sem. hrs.
Three lectures and one laboratory. Megascopic and microscopic study of igneous and metamorphic rocks, with emphasis on identification, classification, genesis, and relationships to tectonism. Offered in the spring semester.
Prerequisite(s): GEO 210.

GEO 355. Invertebrate Paleontology. 3 sem. hrs.
Two lectures and one laboratory. Study of the taxonomy and morphology of major invertebrate fossil groups. Offered in the spring semester.
Prerequisite(s): GEO 101 and GEO 102.

GEO 363. Geomorphology. 3 sem. hrs.
Two lectures and one laboratory. Study of landforms with emphasis on the basic geomorphic processes that contribute to their origin. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 365. Structural Geology. 3 sem. hrs.
Two lectures and one laboratory. An introductory study of the deformation of rocks, including mechanical principles, description and identification of folds and faults, map interpretation, and regional tectonics. Offered in the fall semester.
Prerequisite(s): GEO 101 and PH 101.

GEO 367. Sedimentology/Stratigraphy. 4 sem. hrs.
Three lectures and one laboratory. Study of the principles involved in the description and classification of sedimentary rocks and stratigraphic units, with emphasis on sedimentary processes and depositional environments. Offered in the spring semester.
Prerequisite(s): GEO 102 and GEO 210.

GEO 369. Introduction Geophysics. 3 sem. hrs.
Introduction to the major fields of exploration geophysics such as seismology, isostasy, heat flow, gravity and magnetic prospecting, and electrical methods. The course includes both principles and applications to petroleum, mining, and environmental problems. Offered in the fall semester.
Prerequisite(s): MATH 125 and PH 101 and GEO 101.

GEO 399. Undergraduate Research. 1-6 sem. hr.
A maximum of 4 hours can be applied toward the major in geology. Approval of the department chairperson is required prior to registration. Offered according to demand.

GEO 401. Paleoclimatology. 3 sem. hrs.
Survey of the history of global climate change and the methods used to measure paleoclimate in the geological record. Offered in the Spring semester.
Prerequisite(s): GEO 101 or GEO 102.

GEO 404. Quatenary Climate and Envrmnt. 3 sem. hrs.
Outline of the climatological and environmental history of the past two million years, focusing on causes and impact of glacial and shorter oscillations. Offered according to demand.
Prerequisite(s): GEO 401.

GEO 407. Seismology. 3 sem. hrs.
This course provides an overview of earthquake seismology for both upper-level and graduate geo-science students. Topics include elastic wave propagation, seismic ray theory, travel time interpretations, surface wave dispersion, and seismic tomography.
Prerequisite(s): MATH 126.

GEO 410. Soil & Groundwater Restoration. 3 sem. hrs.
Methods for restoring contaminated soil groundwater by examining the factors and processes influencing the efficacy of remediation systems. Emphasis placed on the scientific principles upon which soil and groundwater remediation is based.
Prerequisite(s): GEO 101 and CH 101 or CH 117 and CH 102 or 118.

GEO 416. Volcanology. 3 sem. hrs.
Study of the physical properties of magmas, eruptive mechanisms, volcanic products, and the relationship between volcanism and tectonism. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 420. Petroleum Geology. 3 sem. hrs.
Introduction to the origin, migration, accumulation, and entrapment of petroleum. Emphasis is on sedimentary, geochemical, and hydrodynamic processes. Offered in the spring semester of even-numbered years.
Prerequisite(s): GEO 365 and GEO 367.

GEO 421. Geology & History of W Turkey. 3 sem. hrs.
This two week long course will emphasize environmental geology history, geoarchaeology, and natural hazards of the Greco-Roman city states in Western Anatolia. It will concentrate on the effects of geology and natural hazards in the decline and eventual fall of these large city states and cultural centers.

GEO 424. Topics In Geology. 1-4 sem. hr.
Special topics in the following areas: economic geology, geochemistry, geophysics, geomorphology, hydrogeology, mineralogy, paleontology, petrology, sedimentology, stratigraphy, structural geology, and tectonics. Offered according to demand.

GEO 430. Ore Deposits. 3 sem. hrs.
Introduction to sedimentary hydrothermal, metasomatic, and magnetic ore deposits, including geologic setting and genesis. Offered on demand.
Prerequisite(s): GEO 210.

GEO 435. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the fall semester.

GEO 436. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the spring semester.

GEO 445. Multich. Seismic Proc. 4 sem. hrs.
Introduction to multichannel seismic data acquisition, processing, and interpretation. Includes the theory of wave propagation, time series analysis, and filtering. Lab is problem-based using real-world data and examples. Offered according to demand.
Prerequisite(s): MATH 125 and PH 102.

GEO 446. Scientific Computing. 3 sem. hrs.
This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages. Offered according to demand.

GEO 470. General Geochemistry. 3 sem. hrs.
Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered in the Spring semester.
Prerequisite(s): GEO 314.

GEO 476. Analytical Geochemistry. 3 sem. hrs.
Theory, techniques, and applications of geochemical methods for the analysis of rocks, soils, and aqueous fluids. Offered according to demand.

GEO 490. Seminar Regional Geology. 1-3 sem. hr.
Seminar on and field trip to important geologic localities. May be repeated for credit. Offered according to demand.

GEO 492. Geologc Field Writg Tech. 2 sem. hrs.
Introduction to the methods of field geology, geology of the southeastern U.S., geological writing, and presentation techniques. Offered according to demand.
Prerequisite(s): GEO 367.

GEO 495. Field Geology. 6 sem. hrs.
Five-week field course involving the application of geologic techniques and principles. Includes geologic mapping, data collection, and report writing. Offered during the first summer term.
Prerequisite(s): GEO 314 and GEO 365 and GEO 367.

GEO 497. Geological Internships. 3 sem. hrs.
A maximum of 4 hours can be applied toward the major in Geology. Field and laboratory projects with government and industry. Offered according to demand.
Prerequisite(s): GEO 101 and GEO 102 or GEO 105.

GEO 499. Research In Geology. 1-4 sem. hr.
Offered according to demand.

German (GN) Courses

GN 101. Elementary German I. 4 sem. hrs.
First semester German language course. Class meets five times a week.

GN 102. Elementary German II. 4 sem. hrs.
Second semester German language course. Class meets five times a week.
Prerequisite(s): GN 101 or advisor placement.

GN 103. Accelerated Elementary German. 4 sem. hrs.
Intensive, accelerated study of first and second semester German language curriculum. Class meets five times a week.

GN 201. Intermediate German I. 3 sem. hrs.
Third semester German language course.
Prerequisite(s): GN 102 or GN 103 or advisor placement.

GN 202. Intermediate German II. 3 sem. hrs.
Fourth semester German language course.
Prerequisite(s): GN 201 or advisor placement.

GN 203. Accelerat Intermediate German. 4 sem. hrs.
Either GN 102, 103
Prerequisite(s): GN 102 or GN 103.

GN 205. Living German House I. 2 sem. hrs.
Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 206. Living German House II. 2 sem. hrs.
Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 250. Germanic Mythology. 3 sem. hrs.
Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

GN 254. Survey of German Cinema. 3 sem. hrs.
An overview of German Cinema from Silent Era in the 20's through New German Cinema, to post-wall works. Topics: history, socio-cultural frame, directors and cinematography.

GN 260. Holocaust In Film & Lit. 3 sem. hrs.
An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

GN 264. German Literature Translatn I. 3 sem. hrs.
A survey in English of German literary masterpieces ranging from the Ring of the Nibelungs and Tristan and Isolde to Goethe's Faust. Themes include love, myth, religious freedom, war and peace, and nationhood.

GN 265. German Lit In Translatn II. 3 sem. hrs.
A survey in English of German literary masterpieces of the 19th and 20th centuries. Themes include communism and capitalism, Hitler and the Holocaust, gender, and the responsibility of scientists. Authors might include Kafka, Hesse, Mann, and Grass.

GN 270. Special Topics. 3 sem. hrs.
Topic varies. No knowledge of German is required.

GN 275. Germany Contemp Europe. 3 sem. hrs.
Study of Germany's place in today's Europe; political, social, and cultural aspects are examined.

GN 361. Interm Convers Comp I. 3 sem. hrs.
Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.
Prerequisite(s): GN 202 or instructor approval.

GN 362. Interm Convers Comp II. 3 sem. hrs.
Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.
Prerequisite(s): GN 361 or instructor approval.

GN 365. Business German. 3 sem. hrs.
Acquisition of business German used in commercial transactions. Emphasis is on business letters and business conversation.
Prerequisite(s): GN 361 or GN 362 or instructor approval.

GN 371. German Culture and Civilization Thru 1832. 3 sem. hrs.
A survey of German cultural history from the Germanic tribes through the Age of Goethe. Emphasis is on developments in philosophy, religious thought, music, art, architecture, and popular culture in the context of political and social history.
Prerequisite(s): GN 361 or GN 362 or instructor approval.

GN 372. Germn Cult Civ 1832-Present. 3 sem. hrs.
A survey of German cultural history from the 1830s to the present.

GN 381. Directed Readings. 1-4 sem. hr.
In addition to the stated prerequisites, all 400-level German courses have as a prerequisite 20 hours of coursework in German, or permission of the instructor.

GN 403. Undergraduate Seminar. 3 sem. hrs.
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372.

GN 404. Undergraduate Seminar. 3 sem. hrs.
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372.

GN 450. Intermed Business German. 3 sem. hrs.
Expands and deepens knowledge of business German and prepares students for such internationally recognized business German examinations as the Zertifikat Deutsch f'r den Beruf and Pr'fung Wirtschaftsdeutsch International.
Prerequisite(s): GN 365.

GN 461. Adv Gn Convers Comp I. 3 sem. hrs.
A continuation of GN 361 or GN 362. Discussion, readings, essay writing, and oral reports on variable topics.
Prerequisite(s): GN 361 OR GN 362.

GN 462. Adv Gn Convers Comp II. 3 sem. hrs.
Discussion, readings, essay writing, and oral reports in German.
Prerequisite(s): GN 361 or GN 362.

GN 481. Directed Readings. 1-4 sem. hr.
Students planning to enroll should confer with the instructor before registration.

GN 482. Directed Readings. 1-4 sem. hr.
Students planning to enroll should confer with the instructor before registration.

Greek (GR) Courses

GR 101. Beginning Greek I. 3 sem. hrs.
Fundamentals of Greek grammar and syntax. Offered in the fall semester.

GR 102. Beginning Greek II. 3 sem. hrs.
Continued study of the fundamentals of Greek grammar and syntax. Offered in the spring semester.

GR 201. Intermediate Greek I. 3 sem. hrs.
Introduction to and practice in reading Greek literature, particularly Homer's Iliad.

GR 202. Intermediate Greek II. 3 sem. hrs.
An introduction to Greek prose with an emphasis on Xenophon's Anabasis.

GR 301. Advanced Greek I. 3 sem. hrs.
Select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 302. Advanced Greek II. 3 sem. hrs.
More select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 490. Adv Greek Literature. 3 sem. hrs.
Select readings in Greek literature. An effort is made to accommodate the student's special interests. The course may be repeated for credit. Offered according to demand.

Hebrew (HEB) Courses

HEB 101. Elem Hebrew Language. 3 sem. hrs.
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HEB 102. Elem Hebrew Language. 3 sem. hrs.
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): HEB 101.

HEB 201. Intermed Hebrew Language. 3 sem. hrs.
Continuation of Hebrew language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): HEB 102.

HEB 202. Intermed Hebrew Language. 3 sem. hrs.
Continuation of HEB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without consent of CLC director. Offered according to demand.
Prerequisite(s): HEB 102.

Hindi (HIN) Courses

HIN 101. Elementary Hindi. 3 sem. hrs.
Contemporary Hindi: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HIN 102. Elementary Hindi. 3 sem. hrs.
Contemporary Hindi: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): HIN 101.

History (HY) Courses

HY 101. Western Civ To 1648. 3 sem. hrs.
A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe. Usually offered in the summer session.

HY 102. Western Civ Since 1648. 3 sem. hrs.
Covers the development of the Western world from the Thirty Years' War to the post-World War II era: the age of absolutism, the Enlightenment, the French Revolution, industrialization and the wars of the 20th century. Usually offered in the summer session.

HY 103. America Civilization to 1865. 3 sem. hrs.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 104. Am Civ Since 1865. 3 sem. hrs.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 105. Honors West Civ To 1648. 3 sem. hrs.
Honors sections of HY 101.

HY 106. Honors West Civ Sc 1648. 3 sem. hrs.
Honors sections of HY 102.

HY 107. Honors Am Civ to 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 203.

HY 108. Honors Am Civ Sc 1865. 3 sem. hrs.
An honors-level approach to the American experience.

HY 110. Comparative World Civ. 3 sem. hrs.
Examines various civilizations in the world prior to A.D. 1500 and compares their governments, societies, economies, religions, science, learning, and technology. History majors may substitute HY 110 for HY 101 to satisfy part of the Western civilization requirement.

HY 111. Colonial Latin America. 3 sem. hrs.
Formation of the largely Spanish speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 112. Modern Latin Am Since 1808. 3 sem. hrs.
Survey of political, economic, and social life in the 19th and 20th centuries with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 113. Asian Civilization to 1400. 3 sem. hrs.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan and Southeast Asian, with large cultural and religious emphases.

HY 114. Modern Asia since 1400. 3 sem. hrs.
Conditions of various Asian civilizations in the 15th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism and Asian nationalism.

HY 115. History of Science to 1687. 3 sem. hrs.
This course will explore the origins and evolution of science and technology and the relationship both had to the societies that produced them. In addition to reading foundational texts in the history of science, like Aristotle and Galileo, we will address larger themes, including the relationship between science and religion and the role of science and scientists in the societies that produced them.

HY 116. History of Science Since 1687. 3 sem. hrs.
Science and technology are ever-present in today's world, defining not only how we live our daily lives but also shaping our conceptions and evaluations of modernity, civilization, and progress. How did science and technology become so important and pervasive to the modern world? This course is intended as an introduction to the history of modern science and technology from the Enlightenment to the present. Our focus will be on the development of science and technology in the Western World (Europe and North America). However, we will also make comparisons across cultures to explore how science and technology shaped notions of what counts as "Western" and "modern." In addition to learning about key developments in the history of science and technology, from Ford's Model-T to Einstein's theory of relativity, we will address larger themes, including the relationship between science and religion and the role of technology in war and empire.

HY 200. Special Studies in Hy. 1-3 sem. hr.

HY 203. Amer Civilizatn To 1865. 3 sem. hrs.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 204. Amer Civilizatn Sc 1865. 3 sem. hrs.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 205. Honors Amer Civ To 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 203. Open to freshmen.

HY 206. Honors Amer Civ Sc 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 204. Open to freshmen.

HY 225. Hy Alabama To 1865. 3 sem. hrs.
State history under the flags of Spain, France, Great Britain, the U.S., and the Confederate States, with emphasis on cultural heritage.

HY 226. Hy Alabama From 1865. 3 sem. hrs.
Survey of Alabama's history and personalities since 1865: Reconstruction, agrarian revolt, Progressivism, the KKK, Dixiecrats and the Civil Rights movement.

HY 235. Christ Church To 1500. 3 sem. hrs.
Survey of the Christian church from its origins in the Middle East through its victory over the Roman Empire and its ascendancy in the Middle Ages.

HY 236. Christ Church Sc 1500. 3 sem. hrs.
Cultural and institutional history of the Christian church with emphasis on the Reformation and Counter-Reformation and discussion of the church in the New World.

HY 237. Colonial Latin America. 3 sem. hrs.
Formation of the largely Spanish-speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 238. Modern Lat Am Sc 1808. 3 sem. hrs.
Survey of political, economic, and social life in the 19th and 20th centuries, with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 243. History of Asia to 1400. 3 sem. hrs.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan, and Southeast Asia, with largely cultural and religious emphases.

HY 244. History of Asia Since 1400. 3 sem. hrs.
Conditions of various Asian civilizations in the 16th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism, and Asian nationalism.

HY 247. England To 1688. 3 sem. hrs.
History of Western civilization in one country, from Anglo-Saxon times to the growth of absolutism and resistance.

HY 248. England Since 1688. 3 sem. hrs.
England from the Glorious Revolution to the post-World War II era, with emphasis on social and cultural topics as well as foreign affairs.

HY 295. Us Naval History. 3 sem. hrs.
Traces the development of the U.S. Navy from sailing ships to nuclear vessels, and relates it to political and economic conditions and to wars throughout American history.

HY 300. Special Studies in History. 3 sem. hrs.

HY 301. Independent Study. 1-3 sem. hr.
Directed study done by special arrangement with a faculty member of the History Department. Requires sophomore standing and permission of the instructor.

HY 306. Hy Of Oriental Thought. 3 sem. hrs.
Examination of major developments and trends in Asian cultural and intellectual history. Topics vary.

HY 312. American South Before 1865. 3 sem. hrs.
The South from colonial times to the Civil War, tracing the growth of the plantation system, extension of the frontier, commerce and industry, cultural influences, and the institution of slavery.

HY 313. American South Since 1865. 3 sem. hrs.
History of the South since 1865, covering Reconstruction, the Bourbon Democracy, the New South Creed, populist revolt, World War I, the 1920s, the Great Depression, the civil rights movement, and Southern politics.

HY 314. Coming Of The Civil War. 3 sem. hrs.
American history from 1815 to 1861, giving special emphasis to the development of a distinctive American culture and the factors within that culture that led to the Civil War.

HY 315. The Civil War. 3 sem. hrs.
The military, political, diplomatic, social, and intellectual aspects of the Civil War years, and the impact of the war on subsequent American history.

HY 316. Life & Legend Abraham Lincoln. 3 sem. hrs.
The life and legend of the man often considered to be the representative American.

HY 318. U S Since 1945. 3 sem. hrs.
Topical survey of the economic, social, political, and cultural developments in the United States since World War II.

HY 319. 19th Century Black History. 3 sem. hrs.
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

HY 320. 20th Century Black History. 3 sem. hrs.
The interrelationship of blacks and the industrial-urban environment of the United States.

HY 321. Religion In Modern Europe. 3 sem. hrs.
A survey of religious thought and practice in Europe since 1750.

HY 323. Us Constitut Hy To 1877. 3 sem. hrs.
Deals with the evolution of constitutional law and the nature and process of judicial review, including 18th-century constitutional theory and Supreme Court decisions.

HY 324. Us Constitut Hy Sc 1877. 3 sem. hrs.
Continuation of HY 323, tracing developments up to the current Supreme Court.

HY 325. Us-World Power To 1898. 3 sem. hrs.
Emphasizes idealism and realism in foreign policy, the change from isolationism to international involvement, "New Manifest Destiny," and the rise of America to world power.

HY 326. Us-World Power Sc 1898. 3 sem. hrs.
Emphasizes American international involvement through the Panama Canal, the Roosevelt Corollary, World War I and the League of Nations, Pearl Harbor and World War II, the Cold War, Vietnam War, and after.

HY 330. Civil Rights Movement. 3 sem. hrs.
History of the leaders, organizations, and events of the Civil Rights Movement during the years 1945 to 1968.

HY 331. Religion and Civil Rights. 3 sem. hrs.
Religion and Civil Rights studies the civil rights movement in Tuscaloosa and West Alabama. Students examine how religious beliefs and institutions undergirded the movement and then partner with a local black church to tell its history under segregation. Students will interview older congregants about their lives during Jim Crow, transcribe the interviews, and synthesize their research a book for the church.

HY 341. Hy Us - Vietnam War. 3 sem. hrs.
Survey of the historical background of the conflict in Indochina leading to U.S. involvement and its consequences.

HY 349. History of France 1760-present. 3 sem. hrs.
This course examines majro trends in the social, cultural, economic and political history of modern France. Major themes include: republicanism and citizenship, nationalism, daily life, war, class conflict, consumerism, imperialism, the arts and gender.
Prerequisite(s): HY 102 or HY 106.

HY 355. German History Sc 1740. 3 sem. hrs.

HY 357. World War I. 3 sem. hrs.
The war to end all wars," from the European crises culminating at Sarajevo in 1914 to peacemaking at Versailles in 1919, with emphasis on the western and eastern fronts and on the war at sea.

HY 358. World War II. 3 sem. hrs.
The global conflict, or series of conflicts, from Manchukuo in 1931 to Tokyo Bay in 1945, with emphasis on battles on land and sea and in the air, life on the home fronts and in enemy-occupied areas, and the legacy of the war to future generations. Writing proficiency within this discipline is required for a passing grade in this course.

HY 361. Russia To 1894. 3 sem. hrs.
Political history of Russia from the ninth to the 19th centuries, followed by social and cultural history of the Russian revolutionary movement.

HY 362. Russia-Soviet Union Since 1894. 3 sem. hrs.
Crisis in Russian society and the coming of the Revolution; the emergence of Stalinism; and political developments since World War II, including the disintegration of the Soviet system.

HY 365. European Consumer Society. 3 sem. hrs.
This coruse explores the evolution of modern Europe's consumer society from the 18th century to the present to understand how changing patterns of consumption fostered new relationships between individuals and the material world.
Prerequisite(s): HY 102 or HY 106.

HY 377. Mexico since 1810. 3 sem. hrs.
Mexican Independence, the Constitution of 1824, Santa Anna, revolutions in the 19th and 20th centuries, and contemporary Mexico.

HY 384. Ancient Egypt Near East. 3 sem. hrs.

HY 385. History Of Greece. 3 sem. hrs.

HY 386. History Of Rome. 3 sem. hrs.

HY 390. Survey Of Irish History. 3 sem. hrs.
A comprehensive look at the Irish experience from prehistoric times to the present.

HY 393. British Emp & Commonwealth. 3 sem. hrs.
Rise and fall of the British Empire: its creators, bureaucracy, wars, ideas, and the forces that transformed it. Writing proficiency within this discipline is required for a passing grade in this course.

HY 395. History Colloquium. 3 sem. hrs.
Intensive reading, writing, and discussion on special topics in history.

HY 399. History Honors Colloquium. 3 sem. hrs.
Focuses on the discipline of history itself. Will examine some of the fundamental questions about what history is and why the study of history matters. Subject matter varies by term.

HY 400. Special Studies in History. 1-6 sem. hr.
Writing proficiency within this discipline is required for a passing grade in this course.

HY 402. Modern Japan Since 1550. 3 sem. hrs.
Major emphasis on the end of the Tokugawa Period (1800-1868), the rise of modernized Japan in the Meiji Period (1868-1912) and the 20th century.

HY 403. Chinese Civiliz To 1600. 3 sem. hrs.
Survey of Chinese culture from the Shang period through the Ming period.

HY 404. Modern China Since 1600. 3 sem. hrs.
Survey of Chinese history in the Ch'ing Dynasty and the 20th century with emphasis on 19th- and 20th-century events.

HY 408. Colonial Us To 1763. 3 sem. hrs.
Topical survey of major themes in U.S. colonial history, with particular emphasis on Anglo-American developments.

HY 409. Amer Rev/New Nation. 3 sem. hrs.
The development of revolutionary sentiment in the North American colonies, the resulting revolution, and the subsequent efforts to establish the new nation. Writing proficiency within this discipline is required for a passing grade in this course.

HY 411. Comp. Slavery & Emancipation. 3 sem. hrs.
Explores the development of slavery and teh struggles for emancipation in the Americas 1400-1900. Focusing on how race, gender and region shaped experiences.
Prerequisite(s): HY 203 or HY 205.

HY 413. Mexican War Thru Civil War. 3 sem. hrs.
Examines how Americans thought about and used armed force from 1845 to 1865.Writing proficiency within this discipline is required for a passing grade in this course.

HY 416. Us Fr Recons To Wwar I. 3 sem. hrs.
Selected topics relating to the development of the U.S., especially domestic affairs and the growth of important institutions.

HY 417. Us From Ww I To Wwii. 3 sem. hrs.
Covers U.S. participation in two world wars, the Roaring Twenties, and the Great Depression. Government, society, and culture receive attention and analysis.

HY 424. American Though Before 1860. 3 sem. hrs.
American intellectual/cultural history to 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency is required to pass. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 203 or HY 205.

HY 425. American Thought since 1860. 3 sem. hrs.
American intellectual/cultural history since 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 204 or HY 206.

HY 427. Women in Early America. 3 sem. hrs.
Explores women's lives from European settlement to 1877 with attention to ideologies about women's roles and the influences of region, race, class and ethnicity.
Prerequisite(s): HY 203 or HY 205.

HY 428. Women In America. 3 sem. hrs.
Examines the experiences of women from mid-nineteenth century to present with special attention to ideologies about women's roles and effects of region, race, class and ethnicity.
Prerequisite(s): HY 204 or HY 206.

HY 429. Spanish Frontier in N. America. 3 sem. hrs.
History of the Spanish advance into the present-day borders of the U.S., explaining how Spain fought and finally succumbed to the more dynamic and aggressive French and English.

HY 430. UG Research Seminar. 3 sem. hrs.
This course will offer training in historical methods and theory. It will culminate in a 15 page research paper and oral presentation. Writing proficiency within this discipline is required for a passing grade in this course.

HY 432. Gender and Native Americans: Beyond Pocohontas. 3 sem. hrs.
Explores contact between Native Americans and Europeans in the early Americas through attention to gender, stressing the diversity of Native life ways.
Prerequisite(s): HY 203 or HY 205.

HY 442. The Middle Ages. 3 sem. hrs.
Foundations of the modern world in barbarian Europe: retreat into the countryside and private government, recovery of public institutions, money economy, and cultural vitality.

HY 443. Renaissance. 3 sem. hrs.
Study of intellectual movements associated with the Renaissance, including readings in Machiavelli's Prince, More's Utopia, and other humanist writings; social life, economy, religion, politics, and statecraft. Writing proficiency within this discipline is required for a passing grade in this course.

HY 444. Reform & Counter-Reformation. 3 sem. hrs.
History of the separation of the Catholic and Protestant churches from the ideal of the universal Christian church and late medieval religious practice. Writing proficiency within this discipline is required for a passing grade in this course.

HY 446. Age Of Reason 1715-89. 3 sem. hrs.
The Enlightenment of Voltaire, Diderot, Rousseau, Franklin, Hume, Goethe, and Kant, whose writings exalted individual reason, tolerance, liberalism, science, and public service and set the stage for the French Revolution.

HY 447. French Revln & Napoleon. 3 sem. hrs.
Causes, course and effects of the revolution, from the storming of the Bastille to Napoleon's seizure of power, conquests and final defeat at Waterloo.

HY 448. Women in Europe since 1750. 3 sem. hrs.
This course surveys women's lives in Europe from 1750 to the present. Themes explored include: identify construction, power relationships, domesticity, class, war, consumerism and sexuality.
Prerequisite(s): HY 102 or HY 106.

HY 451. Early Modern Germany. 3 sem. hrs.
This course examines the political, religious, intellectual, military, cultural and social history of German speaking central Europe from the Eve of the Protestant Reformation to the eve of the French Revolution. Writing proficiency within this discipline is required for a passing grade in this course.

HY 471. Age Exploration & Conquest. 3 sem. hrs.
A history of exploration during the 15th and 16th centuries, when European nations expanded by sea voyages and conquest, settling in the Americas, Africa, and Asia.

HY 474. Relation Us Latin Amer. 3 sem. hrs.
Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

HY 475. Caribbean Basin 1492 - Present. 3 sem. hrs.
Traces the evolution of Caribbean and Central American nations from the first European settlements to the present.

HY 476. Hy Religion In Latin America. 3 sem. hrs.
The history of religion in Latin America from the late fifteenth century through the early twenty-first century.

HY 480. Survey Of Military History. 3 sem. hrs.
Introduction to the ways in which human beings have organized and used armed force over the course of recorded history.

HY 481. War/Dipl. in Med & Mod. Eur. 3 sem. hrs.
This course examines developments in European warface and diplomatic practice in the late medieval and early modern periods. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 101 or HY 102.

HY 482. War & Religion in the West. 3 sem. hrs.
This course examines the complex interrelationships between religion and armed conflict in the Western tradition from the ancient world into modern times. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 101 or HY 102 or HY 105 or HY 106.

HY 490. England Under Tudors. 3 sem. hrs.
Development of an early modern state: establishment of a strong central monarchy, religious crises from the Reformation to the Puritan movement, and exuberance and excess of an expanding society. Writing proficiency within this discipline is required for a passing grade in this course.

HY 491. England Under Stuarts. 3 sem. hrs.
How Englishmen of the 17th century worked out the great questions of their day: Was liberty compatible with strong government? Could English elites share power without destroying it? What did God want for England? Writing proficiency within this discipline is required for a passing grade in this course.

HY 493. Britain In 18th Century. 3 sem. hrs.
From the Hanoverian Succession in 1714 to victory at Waterloo in 1815: political development, the Agrarian and Industrial Revolutions, John Wesley, Samuel Johnson, and an apparently endless succession of wars. Writing proficiency within this discipline is required for a passing grade in this course.

HY 494. Britain In The Victorian Age. 3 sem. hrs.
Britain at her apogee: possessor of the empire on which the sun never set, world economic leader, nation of Peel and Palmerston, Gladstone and Disraeli, Dickens and Trollope, Tennyson and Browning, Turner and Constable.

HY 498. Honors Thesis I. 3 sem. hrs.
Independent research and writing to produce a senior honors thesis in history.

HY 499. Honors Thesis II. 3 sem. hrs.
Independent research and writing to produce a senior honors thesis in history.
Prerequisite(s): HY 399 and HY 498.

Indonesian (INDO) Courses

INDO 101. Elem Indonesian Language. 3 sem. hrs.
Contemporary Indonesian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

INDO 102. Elem Indonesian Language. 3 sem. hrs.
Contemporary Indonesian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): INDO 101.

INDO 201. Intermediate Indonesian. 3 sem. hrs.
Continuation of Indonesian language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand.
Prerequisite(s): INDO 102.

Italian (IT) Courses

IT 101. Introductory Italian I. 4 sem. hrs.
Five hours of instruction per week. The course is the first semester of college-level language study. Offered each semester.

IT 102. Introductory Italian II. 4 sem. hrs.
Five hours of instruction per week. The course is the second semester of college-level language study. Offered each semester.

IT 201. Intermediate Italian I. 3 sem. hrs.
Basic grammar review, development of writing skills, and introduction to literature.
Prerequisite(s): IT 102.

IT 202. Intermediate Italian. 3 sem. hrs.
Basic grammar review, development of writing skills, and introduction to literature.

IT 353. Italian Conversation. 3 sem. hrs.
Development of conversational skills through role-playing, oral presentations, and vocabulary building.

IT 356. Adv Grammar Composition. 3 sem. hrs.
A combined writing theory and writing skills course focusing upon more advanced notions of Italian grammar and on the development of techniques for written expression.

IT 361. Intro Romance Linguistic. 3 sem. hrs.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

IT 364. Masterpieces of Italian Lit. 3 sem. hrs.
Study of selected major works of Italian literature in translation without restriction as to literary period or genre.

IT 380. Special Topics. 3 sem. hrs.
The subject matter varies, and includes "Film and Literature" and "Fascism in Film and Literature" with lectures in English. *No prerequisite necessary for courses offered in English. May be repeated for credit.

IT 480. Special Topics. 3 sem. hrs.
The subject matter varies. May be repeated for credit. Offered according to demand.

Japanese (JA) Courses

JA 101. Elementary Japanese I. 4 sem. hrs.
Five hours of instruction per week. Acquisition of elementary Japanese language skills in listening, speaking, reading, and writing.

JA 102. Elementary Japanese II. 4 sem. hrs.
Five hours of instruction per week. A continuation of JA 101.
Prerequisite(s): JA 101.

JA 201. Intermediate Japanese I. 3 sem. hrs.
A continuation of JA 102.
Prerequisite(s): JA 102.

JA 202. Intermediate Japanese II. 3 sem. hrs.
A continuation of JA 201.
Prerequisite(s): JA 201.

JA 301. Third Year Japanese I. 3 sem. hrs.
A continuation of JA 202.

JA 302. Third Year Japanese II. 3 sem. hrs.
A continuation of JA 301.

JA 356. Traditional Japanese Lit Trans. 3 sem. hrs.
Introduction to Japanese literature from the earliest times through the Tokugawa period. No knowledge of Japanese is required.

JA 357. Japanese Literature & Film. 3 sem. hrs.
Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

JA 371. Japanese Culture I. 3 sem. hrs.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include modern history, characteristics of Japanese business, social problems, traditional religious and philosophy of the Japanese people.
Prerequisite(s): JA 102.

JA 372. Japanese Culture II. 3 sem. hrs.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include traditional art forms, Buddhism sculptures, movies, traditional music and theater, subculture and marital arts.
Prerequisite(s): JA 102.

JA 390. Topics Japanese Studies. 3 sem. hrs.
Discussion and research of various topics related to Japanese language/culture. Topics may change each semester, such as KANJI, translation, or traditional and modern Japanese culture and society. With permission of the program director, this course may be applied toward the Japanese minor.

JA 410. 4 Yr Read/Write Japanese. 3 sem. hrs.
A continuation of JA 301 and JA 302 with emphasis on development of reading and writing skills.

JA 411. 4th Year Spoken Japanese. 3 sem. hrs.
A continuation of JA 301 and JA 302 with emphasis on development of listening and speaking skills.

JA 481. Directed Readings. 1-4 sem. hr.

JA 482. Directed Readings. 1-4 sem. hr.

Korean (KOR) Courses

KOR 101. Elementary Korean. 3 sem. hrs.
Contemporary Korean speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

KOR 102. Elementary Korean. 3 sem. hrs.
Contemporary Korean speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 101.

KOR 201. Intermediate Korean. 3 sem. hrs.
Continuation of Korean language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 102.

KOR 202. Intermediate Korean. 3 sem. hrs.
Continuation of KOR 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 201.

Latin (LA) Courses

LA 101. Elementary Latin I. 3 sem. hrs.
Beginning fundamentals of Latin grammar and syntax. Offered in the fall semester.

LA 102. Elementary Latin II. 3 sem. hrs.
Continued study of the fundamentals of Latin grammar and syntax. Offered in the spring semester.
Prerequisite(s): LA 101.

LA 201. Intermed Latin Read I. 3 sem. hrs.
Introduction to and practice at reading Latin literature. Offered in the fall semester.
Prerequisite(s): LA 102.

LA 202. Intermed Latin Read II. 3 sem. hrs.
Selected readings from Latin literature. Offered in the spring semester.
Prerequisite(s): LA 201.

LA 301. Advanced Reading in a Roman Author or Genre. 3 sem. hrs.
Readings in Latin literature to the time of Julius Caesar. Offered in the fall semester.

LA 302. Advanced Reading in a Roman Author or Genre. 3 sem. hrs.
Selected readings in later Roman literature. Offered in the spring semester.

LA 490. Readings In Latin Literature. 3 sem. hrs.
The subject matter varies. May be repeated for credit. Offered according to demand.
Prerequisite(s): LA 301 or LA 302.

Marine Science (MS) Courses

MS 304. Marine Geology. 4 sem. hrs.
Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

MS 306. Marine Biology. 4 sem. hrs.
Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

MS 321. Marine Tech Methods I. 2 sem. hrs.

MS 398. Undergraduate Research. 1-6 sem. hr.

MS 400. Coastal Birds of Alabama. 2 sem. hrs.
This course is an introductory level course to coastal avian fauna. Study of coastal birds with an emphasis on various nesting sites and nesting behavior. This course includes identification, population dynamics and behavior of coastal birds. Lectures emphasize functional ecology specifically nesting biology of numerous species found along Alabama's coastal region. Topics include migration, mechanics of flight, breeding biology, and foraging. This course is a field-based course with an emphasis on breeding biology and behavior and introduction to bird identification.
Prerequisite(s): BSC 114 or BSC 385.

MS 401. Coastal Geomorphology. 2 sem. hrs.
This course is an introduction to coastal sediment processes and applied coastal geomorphology. Waves and other coastal hydrodynamics, sediment transport, and interaction between natural process and man's activities such as dredging, jetties, and beachfills will be studied. The barrier island coast of Alabama will be used extensively in field trip investigations of these processes. This course is designed for undergraduate and graduate students in the physical and biological marine sciences.
Prerequisite(s): BSC 114 or GEO 101.

MS 408. Marine Invertebrate Zoology. 4 sem. hrs.
Comparative study of the major marine invertebrate phyla, protozoa through protochordates. The focus is on their morphology, physiology, ecology, and phylogenetic relationships.

MS 411. Marsh Ecology. 4 sem. hrs.
Study of the floral and faunal elements of various marine marsh communities. The interaction of physical and biological factors is emphasized. Field trips acquaint students with regional examples of marsh types.

MS 419. Marine Ecology. 4 sem. hrs.
Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems.

MS 433. Coastal Zone Management. 2 sem. hrs.
Review of ecological features, physical management policies for coastal communities, and a description of relevant federal and state programs.

MS 448. Intro Oceanography. 4 sem. hrs.
A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and their relation to biological systems.

MS 452. Marine Vertebrate Zoology. 4 sem. hrs.
Systematics, zoogeography, and ecology of marine vertebrates.

MS 453. Marine Botany. 4 sem. hrs.
Reproduction, taxonomy, systematics, distribution, and ecology of the major marine plant groups.

MS 497. Special Topics. 1-4 sem. hr.
A marine science topic not covered in other courses. The credit hours and format are determined as appropriate to the topic. Offered according to demand and instructor availability.

Mathematics (MATH) Courses

MATH 005. Introductory Algebra. 3 sem. hrs.
Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

MATH 100. Intermediate Algebra. 3 sem. hrs.
Intermediate-level course including work on functions, graphs, linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. The solution of word problems is stressed. NOT APPLICABLE to UA Core Curriculum mathematics requirement. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 190 or higher or ACT2 18 or SAT2 440 or MATH 005.

MATH 110. Finite Mathematics. 3 sem. hrs.
Sets and counting, permutations and combinations, basic probability, conditional probability, matrices and their application to Markov chains, and a brief introduction to statistics. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 250 or higher or ACT2 18 or SAT2 440 or MATH 100.

MATH 112. Precalculus Algebra. 3 sem. hrs.
A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions. Graphs of these functions are stressed. The course also includes work on equations, inequalities, systems of equations, the binomial theorem, and the complex and rational roots of polynomials. Applications are stressed. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 310 or higher or ACT2 24 or SAT2 560 or MATH 100.

MATH 113. Precalculus Trigonometry. 3 sem. hrs.
Continuation of MATH 112. The course includes study of trigonometric functions, inverse trigonometric functions, trigonometric identities and trigonometric equations. Complex numbers, De Moivre's Theorem, polar coordinates, vectors and other topics in algebra are also addressed, including conic sections, sequences and series. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): MATH 112.

MATH 115. Precalc Algebra & Trig. 3 sem. hrs.
Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates. Grades are reported as A, B, C, or NC (No credit).
Prerequisite(s): PLMA 380 or higher or ACT2 29 or SAT2 650.

MATH 121. Calculus & Applications. 3 sem. hrs.
A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration.

MATH 125. Calculus I. 4 sem. hrs.
This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus. There is also a brief review of selected precalculus topics at the beginning of the course. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): MATH 113 and MATH 112; or MATH 115.

MATH 126. Calculus II. 4 sem. hrs.
This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L'Hopital's Rule, improper integrals, parametric equations, polar coordinates, conic sections and infinite series.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

MATH 145. Honors Calculus I. 4 sem. hrs.
Honors sections of MATH 125.

MATH 146. Honors Calculus II. 4 sem. hrs.
Honors sections of MATH 126.
Prerequisite(s): MATH 125 or MATH 145.

MATH 208. Number And Operations. 3 sem. hrs.
Arithmetic of whole numbers and integers, fractions, proportion and ratio, and place value. Class activities initiate investigations underlying mathematical structure in arithmetic processes and include hands-on manipulatives for modeling solutions. Emphasis is on the explanation of the mathematical thought process. Students are required to verbalize explanations and thought processes and to write reflections on assigned readings on the teaching and learning of mathematics.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112.

MATH 209. Geometry & Measurement. 3 sem. hrs.
Properties of two- and three-dimensional shapes, rigid motion transformations, similarity, spatial reasoning, and the process and techniques of measurement. Class activities initiate investigations of underlying mathematical structure in the exploration of shape and space. Emphasis is on the explanation of the mathematical thought process. Technology specifically designed to facilitate geometric explorations is integrated throughout the course.
Prerequisite(s): MATH 208.

MATH 210. Data Analysis Probabil Stats. 3 sem. hrs.
Data analysis, statistics, and probability, including collecting, displaying/representing, exploring, and interpreting data, probability models, and applications. Focus is on statistics for problem solving and decision making, rather than calculation. Class activities deepen the understanding of fundamental issues in learning to work with data Technology specifically designed for data-driven investigations and statistical analysis is integrated throughout the course.
Prerequisite(s): MATH 208 or MATH 209.

MATH 227. Calculus III. 4 sem. hrs.
This is the third of three courses in the basic calculus sequence. Topics include: vector functions and motion in space; functions of two or more variables and their partial derivatives; and applications of partial derivatives (including Lagrange multipliers), quadric surfaces, multiple integration (including Jacobian), line integrals, Green's Theorem, vector analysis, surface integrals and Stokes' Theorem.
Prerequisite(s): MATH 146 or MATH 126 or MATH 132.

MATH 237. Introduction to Linear Algebra. 3 sem. hrs.
Fundamentals of matrices and vectors in Euclidean space. Topics include solving linear systems of equations, matrix algebra, inverses, determinants, eigenvalues and vectors. Also covers the basic notions of vector space, subspace,linear independence, basis, dimension, linear transformation, range, and null-space. Use of mathematics software is an integral part of the course.
Prerequisite(s): MATH 126 or MATH 146.

MATH 238. Appld Diff Equations I. 3 sem. hrs.
Introduction to analytic and numerical methods for solving differential equations. Topics include numerical methods and qualitative behavior of first order equations, analytic techniques for separable and linear equations, applications to population models and motion problems; techniques for solving higher order linear differential equations with constant coefficients (including undetermined coefficients, reduction of order, and variation of parameters), applications to physical models; the Laplace transform (including intial value problems with discontinuous forcing functions). Use of mathematics software is an integral part of the course.
Prerequisite(s): MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 227 or MATH 247.

MATH 247. Honors Calculus III. 4 sem. hrs.
Honors sections of MATH 227.
Prerequisite(s): MATH 126 or MATH 132 or MATH 146.

MATH 300. Intro Numerical Analysis. 3 sem. hrs.
Credit will not be granted for both MATH 300 and MATH 411. A beginning course in numerical analysis. Topics include number representation in various bases, error analysis, location of roots of equations, numerical integration, interpolation and numerical differentiation, systems of linear equations, approximations by spline functions, and approximation methods for first-order ordinary differential equations and for systems of such equations.
Prerequisite(s): MATH 227 or MATH 247, and CS 150 or ECE 285 or CBH 101.

MATH 301. Discrete Mathematics. 3 sem. hrs.
An introductory course that primarily covers logic, recursion, induction, modeling, algorithmic thinking, counting techniques, combinatorics, and graph theory.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

MATH 302. Topics in Discrete Mathematics. 1 sem. hr.
A supplemental course in discrete mathematics covering select topics of interest in computer science. Topics include graphs and trees, finite state automata and regular expressions, efficiency of algorithms.
Prerequisite(s): MATH 301.

MATH 307. Intro Theory Numbers. 3 sem. hrs.
Divisibility theory in the integers; the theory of congruencies; Diophantine equations; Fermat's theorem and generalizations; and other topics. Usually offered in the spring semester.
Prerequisite(s): MATH 227 or MATH 247.

MATH 343. Appl Diff Equations II. 3 sem. hrs.
Continuation of MATH 238. Topics include series solutions of differential equations, the method of Frobenius, Fourier series, method of separation of variables for partial differential equations, elementary boundary value problems for the Laplace, heat and wave equations, an introduction to Sturm-Liouville boundary value problems, and stability of autonomous systems. Usually offered in the spring semester.
Prerequisite(s): MATH 238.

MATH 355. Theory Of Probability. 3 sem. hrs.
The foundations of the theory of probability, laws governing random phenomena and their practical applications in other fields. Topics include: probability spaces; properties of probability set functions; conditional probability; and an introduction to combinatorics, discrete random variables, expectation of discrete random variables, Chebyshev's Inequality, continuous variables and their distribution functions, and special densities.
Prerequisite(s): MATH 227 or MATH 247.

MATH 371. Advanced Linear Algebra. 3 sem. hrs.
Topics include inner product spaces, norms, self adjoint and normal operators, orthogonal and unitary operators, orthogonal projections and the spectral theorem, bilinear and quadratic forms, generalized eigenvectors, and Jordan canonical form.
Prerequisite(s): MATH 237 or MATH 257.

MATH 382. Advanced Calculus. 3 sem. hrs.
Further study of calculus with emphasis on theory. Topics include limits and continuity of functions of several variables; partial derivatives; transformations and mappings; vector functions and fields; vector differential operators; the derivative of a function of several variables as a linear transformation; Jacobians; change of variables in multiple integrals; line and surface integrals; and Green's, Stokes', and Divergence Theorems.
Prerequisite(s): MATH 227; and MATH 247 or MATH 257; and MATH 257.

MATH 402. History Of Mathematics. 3 sem. hrs.
Survey of the development of some of the central ideas of modern mathematics, with emphasis on the cultural context. Writing proficiency within this discipline is required for a passing grade in this course.

MATH 403. Adv Math Connections & Devlpmn. 3 sem. hrs.
Explore the interconnections between the algebraic, analytic, and geometric areas of mathematics with a focus on properties of various number systems, importance of functions, and the relationship of algebraic structures to solving analytic equations. This exploration will also include the development and sequential nature of each of these branches of mathematics and how it relates to the various levels within the algebra mathematics curriculum.
Prerequisite(s): MATH 237 and MATH 301
Prerequisite(s) with concurrency: MATH 470 or MATH 486.

MATH 404. Topics Math Secondary Teachers. 1 sem. hr.
This is a seminar style course focusing on various mathematical topics related to the high school curriculum. Topics will vary depending upon instructor.
Prerequisite(s): MATH 301.

MATH 405. Geometry For Teachers. 3 sem. hrs.
This course will give an overview of geometry from a modern point of view. Both axiomatic and analytic approaches to geometry will be used. The construction of geometric proofs will play an important role.
Prerequisite(s): MATH 125.

MATH 410. Numerical Linear Algebra. 3 sem. hrs.
Further study of matrix theory, emphasizing computational aspects. Topics include direct solution of linear systems, analysis of errors in numerical methods for solving linear systems, least-squares problems, orthogonal and unitary transformations, eigenvalues and eigenvectors, and singular value decomposition.
Prerequisite(s): MATH 237 or MATH 257.

MATH 411. Numerical Analysis I. 3 sem. hrs.
Credit will not be granted for both MATH 411 and MATH 300. A rigorous introduction to numerical methods, formal definition of algorithms, and error analysis and their implementation on a digital computer. Topics include interpolation, roots, linear equations, integration and differential equations, and orthogonal function approximation.
Prerequisite(s): MATH 237 or MATH 257; and MATH 238; and CS 150 or GES 126.

MATH 419. Introduction to Optimization. 3 sem. hrs.
A one-semester introduction to both linear and nonlinear programming for undergraduate students and non-math graduate students. Emphasis is on basic concepts and algorithms and the mathematical ideas behind them. Major topics in linear programming include the simplex method, duality, sensitivity, and network problems; major topics in nonlinear programming include optimality conditions, several search algorithms for unconstrained problems, and a brief discussion of constrained problems. In-depth theoretical development and analysis are not included.
Prerequisite(s): MATH 237 or MATH 257.

MATH 420. Linear Optimization Theory. 3 sem. hrs.
In-depth theoretical development and analysis of linear programming. Topics include formulation of linear programs, various simplex methods, duality, sensitivity analysis, transportation and networks and various geometric concepts.
Prerequisite(s): MATH 237 or MATH 257.

MATH 421. Non-Linear Optimization Theory. 3 sem. hrs.
In-depth theoretical development and analysis of non linear programming with emphasis on traditional constrained and unconstrained non linear programming methods and an introduction to modern search algorithms.
Prerequisite(s): MATH 237 or MATH 257.

MATH 422. Mathematics For Finance I. 3 sem. hrs.
Topics include the basic no-arbitrage principle, binomial model, time value of money, money market, risky assets such as stocks, portfolio management, forward and future contracts, and interest rates.
Prerequisite(s): MATH 227 or MATH 247 and MATH 355.

MATH 432. Graph Theory & Applictns. 3 sem. hrs.
Survey of several of the main ideas of general theory with applications to network theory. Topics include oriented and nonoriented linear graphs, spanning trees, branching and connectivity, accessibility, planar graphs, networks and flows, matching, and applications.
Prerequisite(s): MATH 237 or MATH 257.

MATH 441. Boundary Value Problems. 3 sem. hrs.
Methods of solving the classical second-order linear partical differential equations: Laplace's equation, the heat equation, and the wave equation, together with appropriate boundary or initial conditions. Usually offered in the fall semester.
Prerequisite: Math 343, or consent of the department.
Prerequisite(s): MATH 343.

MATH 442. Integral Transf & Asympt. 3 sem. hrs.
Complex variable methods, integral transforms, asymptotic expansions, WKB method, Airy's equation, matched asymptotics, and boundary layers.
Prerequisite(s): MATH 441.

MATH 451. Math Stats W/Applictn I. 3 sem. hrs.
Introduction to mathematical statistics. Topics include bivariate and multivariate probability distributions, functions of random variables, sampling distributions and the central limit theorem, concepts and properties of point estimators, various methods of point estimation, interval estimation, tests of hypotheses and Neyman-Pearson lemma with some applications.
Prerequisite(s): MATH 237 and MATH 355.

MATH 452. Math Stats W/Applictn II. 3 sem. hrs.
Further applications of the Neyman-Pearson Lemma, Likelihood Ratio tests, Chi-square test for goodness of fit, estimation and test of hypotheses for linear statistical models, analysis of variance, analysis of enumerative data, and some topics in nonparametric statistics.
Prerequisite(s): MATH 451.

MATH 457. Stochastic Processes I. 3 sem. hrs.
Introduction to the fundamental concepts and applications of stochastic processes: Markov chains, continuous-time Markov chains, Poisson and renewal processes, and Brownian motion. Applications include queueing theory, communication networks, and finance.

MATH 460. Intro Differential Geom. 3 sem. hrs.
Introduction to basic classical notions in differential geometry: curvature, torsion, geodesic curves, geodesic parallelism, differential manifold, tangent space, vector field, Lie derivative, Lie algebra, Lie group, exponential map, and representation of a Lie group. Usually offered in the spring semester.

MATH 465. Intro General Topology. 3 sem. hrs.
Basic notions in topology that can be used in other disciplines in mathematics. Topics include topological spaces, open sets, basis for a topology, continuous functions, seperation axioms, compactness, connectedness, product spaces, quotient spaces.
Prerequisite(s): MATH 486.

MATH 466. Intro Algebraic Topology. 3 sem. hrs.
Homotopy, fundamental groups, covering spaces, covering maps, and basic homology theory, including the Eilenberg Steenrod axioms.

MATH 470. Prin Modern Algebra I. 3 sem. hrs.
A first course in abstract algebra. Topics include groups, permutation groups, Cayley's theorem, finite abelian groups, isomorphism theorems, rings, polynomial rings, ideals, integral domains, and unique factorization domains.
Prerequisite(s): MATH 237 or MATH 257.

MATH 471. Prin Modern Algebra II. 3 sem. hrs.
Introduction to the basic principles of Galois Theory. Topics include rings, polynomial rings, fields, algebraic extensions, normal extensions, and the fundamental theorem of Galois Theory.

MATH 474. Cryptography. 3 sem. hrs.
Introduction to rapidly growing area of cryptography, an application of algebra, especially number theory. Usually offered in the Fall semester.
Prerequisite(s): MATH 307 and MATH 470.

MATH 485. Intro Complex Calculus. 3 sem. hrs.
Some basic notions in complex analysis. Topics include analytic functions, complex integration, infinite series, contour integration, and conformal mappings.

MATH 486. Introduction to Real Analysis I. 3 sem. hrs.
Rigorous development of the calculus of real variables. Topics include topology of the real line, sequences, limits, continuity, and differentiation.
Prerequisite(s): MATH 237 or MATH 257.

MATH 487. Intro to Real Analysis II. 3 sem. hrs.
Riemann integration, introduction to Reimann-Stieltjes integration, series of constants and convergence tests, sequences and series of functions, uniform convergence, power series, Taylor series, and the Weierstrass Approximation Theorem.
Prerequisite(s): MATH 486.

MATH 495. Seminar Directed Reading. 1-3 sem. hr.
Offered as needed.

MATH 499. Undergraduate Research Experience. 1-3 sem. hr.
Independent or collaborative research experience in mathematics.

MATH 5. Introductory Algebra. 3 sem. hrs.
Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

Modern Greek (MDGR) Courses

MDGR 101. Elementary Modern Greek. 3 sem. hrs.
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

MDGR 102. Elementary Modern Greek. 3 sem. hrs.
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

MDGR 201. Intermed Modern Gr. 3 sem. hrs.
Continuation of modern Greek on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102.

MDGR 202. Intermed Modern Greek. 3 sem. hrs.
Continuation of MDGR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102.

Modern Languages and Classics (MLC) Courses

MLC 155. Freshman Seminar. 3 sem. hrs.

Music Academics (MUS) Courses

MUS 115. Theory I. 4 sem. hrs.
Study of the foundations of musical materials through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the fall semester.

MUS 117. Theory II. 4 sem. hrs.
Study of the melodic and harmonic materials of the 18th and early 19th centuries through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the spring semester.

MUS 121. Intro To Listening. 3 sem. hrs.
Credit earned in this course may not be applied to a major program in the School of Music. The course presupposes no musical training on the student's part. Emphasis is on what to listen for in music.

MUS 150. Song Writing. 3 sem. hrs.
Popular/commercial song ideas will be developed by sharing, listening to, analyzing, and describing existing songs and personal compositions. Experiences will include experimenting with and improvising music and lyrics toward crafting a personal songwriting style.
Prerequisite(s): None.

MUS 155. Discover Your Inspiration. 3 sem. hrs.
Imagine if you could turn on creativity like a car: rev the engine, cruise in the fast lane and park it until you need it again. Creativity really means perspiration x inspiration. You are not born with it, you have to cultivate it. This course will give you the tools to see all the possibilities around you as you begin your studies at the University of Alabama.

MUS 161. Oboe Reedmaking. 1 sem. hr.
Independent laboratory instruction in oboe reedmaking. Up to four semesters of MUS 161 may be counted toward the degree.

MUS 164. Chamber Choir. 1 sem. hr.
Applied ensemble for singers at the freshmen level.

MUS 180. Intro Music Therapy. 2 sem. hrs.
Study of music as a human behavior and of music's use with the handicapped and those suffering from behavioral disorders.
Prerequisite(s): MUS 115
Prerequisite(s) with concurrency: MUS 115.

MUS 182. Obsrv Orient Mu Therapy. 2 sem. hrs.
Study of the functions of the music therapist with emphasis on the use of music in a therapeutic environment.
Prerequisite(s): MUS 180.

MUS 215. Theory III. 4 sem. hrs.
Study of musical materials and forms from the early to mid-19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the fall semester.

MUS 217. Theory IV. 4 sem. hrs.
Study of musical materials and forms from the mid- to late 19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the spring semester.

MUS 219. Composition I. 2 sem. hrs.
Basic techniques of musical composition.

MUS 220. Composition II. 2 sem. hrs.
A continuation of Composition I. Basic techniques of musical composition.

MUS 228. Jazz Piano Jazz Theory I. 1 sem. hr.
Introduction to theoretic principles of jazz and application on the piano, including definition and applications of chords and scales, progressions, chord substitution principles. Offered in the fall semesters of even-numbered years.

MUS 229. Jazz Piano And Theory II. 1 sem. hr.
Continuation of MUS 228. Focus on modes, synthetic scales, altered extensions, and other extended techniques of the jazz idiom. Offered in the spring semesters of odd-numbered years.

MUS 230. Improvisation I. 1 sem. hr.
Theoretical and applied study of the tonal and rhythmic elements used in developing improvisational skills in jazz, rock, and pop media. Offered in the fall semesters of odd-numbered years.

MUS 231. Improvisation II. 1 sem. hr.
Continuation of MUS 230. Designed to develop advanced improvisational skills in the jazz idiom. Offered in the spring semesters of even-numbered years.

MUS 240. Piano Pedagogy. 2 sem. hrs.
Study of teaching principles, methods, and materials; includes microteaching and observation. Offered in alternate spring semesters.

MUS 244. String Pedagogy. 2 sem. hrs.
Materials and methods for teaching string players in the early grades (both studio and class instruction). Offered according to demand.

MUS 250. Music In World Cultures. 3 sem. hrs.
Study of music in non-Western traditions (Africa, India, Japan, Indonesia, etc.).

MUS 251. Music History I. 3 sem. hrs.
History of music from the ancient Greeks through the end of the 17th century, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the fall semester.
Prerequisite(s): MUS 250.

MUS 252. Music History II. 3 sem. hrs.
History of music in the 18th and early 19th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the spring semester.
Prerequisite(s): MUS 251.

MUS 254. Diction For Singers I. 3 sem. hrs.
Introduction to the International Phonetic Alphabet; study and practice of Italian and English diction. Offered in alternate years.

MUS 255. Diction For Singers II. 3 sem. hrs.
Study and practice of German and French diction. Offered in alternate years.

MUS 280. Music Therapy Skills Repertoir. 2 sem. hrs.
The course emphasizes command of the wealth of folk, popular, and recreational music of the main segments of American culture, as well as polished singing and accompanying skills needed for competent performance.
Prerequisite(s): MUS 182 and MUA 220.

MUS 281. Music Recreation Techniques. 2 sem. hrs.
Prerequisite(s): MUS 280.

MUS 282. Music Therapy Practicum. 1 sem. hr.
Prerequisite(s): MUA 220 and MUS 182.

MUS 300. Intro Music Theory Research. 2 sem. hrs.
An introduction to scholarly research for students who plan academic careers as musical theorists.

MUS 303. 16th Cent Counterpoint. 3 sem. hrs.
Practical study, through analysis and composition, of vocal polyphony as developed in the 16th century. Offered in the fall semester.

MUS 304. 18th Cent Counterpoint. 3 sem. hrs.
The 18th-century style of counterpoint as developed by Bach. Offered in the spring semester.

MUS 307. Form And Analysis. 3 sem. hrs.
Complete survey of the forms of composition, beginning with phrase and period and covering large forms such as rondo, sonata, concerto, and fugue. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

MUS 310. Arranging. 3 sem. hrs.
Basic jazz arranging techniques for small ensembles. Offered in the fall semester.

MUS 312. Intermediate Arranging. 3 sem. hrs.
Continuation of MUS 310 (Arranging). Emphasis on writing for the big band and mixed media instrumentation, focusing on extended arranging techniques. Offered in the spring semester.

MUS 315. Mus Managemt Activity. 2 sem. hrs.
Practical consideration of all aspects of concert production and administration for musicians and music business people.

MUS 316. Careers In Music. 2 sem. hrs.
Exploration of careers in concert and commercial music for musicians and others. Offered spring semester.

MUS 319. Composition III. 3 sem. hrs.
Projects in musical composition.

MUS 320. Composition IV. 3 sem. hrs.
Projects in musical composition.

MUS 323. Music History III. 3 sem. hrs.
History of music in the 19th and 20th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): MUS 252.

MUS 324. Practical Skills and Concepts for the 21st Century Musician. 2 sem. hrs.
The Course will provide information designed to challenge (student's) concepts of change, leadership and creativity. Concepts which are 21rst century necessities. Practical steps of implementation in these 3 areas will be offered through mini-internships in the SOM . In particular through activities involving the SOM Concert Hall, Recital Hall, Music Services, The TSO, the modern applied studio, Arts Council and the Alys Stephens Center. Students will learn how to work with others; focus on the underbelly of performance ; value the necessary stream of activity needed for a successful production. Such "productions" may include developing an idea, running a meeting, producing an event or a concert, write/speak about music and the arts.

MUS 325. Orchestration I. 3 sem. hrs.
Basic instrumentation and writing for ensembles and orchestra. Offered in the fall semester of even-numbered years.

MUS 326. Arts Venues Management. 2 sem. hrs.
Through course readings, lectures, guest presentations, and hands-on experience students will learn the roles and operations of arts and music venues. This class is a combination of practical work and classroom lectures. The class will be held at several local venues, the primary one being the Tuscaloosa Amphitheater. Other venues include Tuscaloosa River Market, Mildred Westervelt Warner Transportation Museum, Bama Theatre and UA venues.
Prerequisite(s): Junior status or permission of instructor.

MUS 327. Studies Special Literat. 3 sem. hrs.
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 331. Jazz Symposium. 3 sem. hrs.

MUS 332. Experimental Music. 3 sem. hrs.
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We will begin be defining what experimental music is - what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hip, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.

MUS 333. Service Playing. 3 sem. hrs.

MUS 334. Service Playing. 3 sem. hrs.

MUS 335. Accompanying Class. 2 sem. hrs.
Survey of accompanying techniques and of the standard repertoire in the vocal, string, and wind areas. Experience is gained through assigned projects and/or assigned studio accompanying. Offered in the spring semester of even-numbered years.

MUS 340. Intro Recording Techniq. 3 sem. hrs.
Exploration of the basics of the art of sound recording. Emphasis on the mixing console, microphone placement, effects, recording basic tracks, and mixdown.

MUS 344. String Pedagogy. 2 sem. hrs.

MUS 351. Fund Of Conducting. 2 sem. hrs.
Introduction to the basic techniques of conducting with emphasis on the understanding and control of music materials. Offered in the fall semester.

MUS 364. Chamber Choir. 1 sem. hr.
Applied ensemble for singers at the junior level.

MUS 365. Legal Issues in the Arts. 3 sem. hrs.
This course will explore a broad range of legal topics pertinent to the arts, including: copyright, trademark, contracts, management of employees, union issues, advertising and 501 (c)(3) non-profit status.
Prerequisite(s): MUS 115 and MUS 117.

MUS 380. Intro Psychology Music. 3 sem. hrs.
Basic study of acoustics, the ear and hearing, and the psychosociophysiological processes involved in musical behavior.
Prerequisite(s): MUS 281 and MUA 199.

MUS 382. Music Therapy Practicum. 1 sem. hr.
Supervised music therapy experience in local facilities.

MUS 401. Film Scoring I. 3 sem. hrs.
A study of the art of scoring music for films. Emphasis will be placed on the short jingle and the technical aspects of film scoring. Offered in the fall semester.

MUS 402. Film Scoring II. 3 sem. hrs.
Continuation of MUS 401. Emphasis will be placed on writing the extended film score by analysis of psychological impact, orchestrational techniques, etc. Offered in the spring semester.

MUS 403. Advanced Counterpoint. 3 sem. hrs.
The writing of fugue, variation, ground-bass, and canon. Offered in the fall semesters of odd-numbered years.

MUS 405. Studio Tech Arrang Orchs. 3 sem. hrs.
Continued development of arranging and orchestrating techniques in both jazz and commercial settings, with an emphasis on the studio orchestra, MIDI instrumentation, and vocal groups.

MUS 406. Keyboard Techniques. 2 sem. hrs.
Applied survey of figured bass, choral open-score reading, transposition, and harmonization. Offered in the fall semesters of odd-numbered years.

MUS 407. Marketing the Arts. 2 sem. hrs.
Marketing the Arts will provide students with a general overview of communications including public relations, advertising, marketing and new media. Through readings, discussions, quizzes, an examination and a final group presentation students will develop an understanding of marketing practices involved in promoting an arts organization. Emphasis will be on not-for-profit organizations, community theatres and symphony orchestras.

MUS 412. Digtl Syn Of Elec Mus. 3 sem. hrs.
Instruction in the design and utilization of sound-generating computer programs. Offered in the fall semester of even-numbered years.

MUS 414. Tech Electronic Music II. 3 sem. hrs.
Utilization of digital synthesizers and advanced studio techniques. Offered in the spring semesters of even-numbered years.

MUS 418. Structural Analysis II. 3 sem. hrs.
Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers. Offered in the fall semesters of odd-numbered years.

MUS 419. Composition V. 3 sem. hrs.

MUS 420. Composition VI. 3 sem. hrs.

MUS 426. Analysis 20th Cent Music. 3 sem. hrs.
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 427. Studies In Special Lit. 3 sem. hrs.
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 433. Proseminar Symphonic Lit. 3 sem. hrs.
Lecture and class reports analyzing selected masterworks from the symphony, symphonic poem, and concert overture repertoire.

MUS 435. Baroque Proseminar. 3 sem. hrs.
An intensive study of the music, composers, style characteristics, theoretical and aesthetic principles, and performance practices associated with the music of the Baroque period (1600-1750) via reading, listening and musical analysis. Offered in the fall semesters of even-numbered years.

MUS 444. Vocal Pedagogy. 2 sem. hrs.
Introduction to the concepts, methods, and materials essential to effective teaching of the singing voice. Offered in alternate years.

MUS 447. Teaching Choral Music Publ Sch. 3 sem. hrs.
The scope, organization, and administration of choral programs in public schools. Includes analysis of teaching techniques and materials appropriate to specific levels of development. Offered in the fall semester.

MUS 448. Tchng Instrumental Music Pub S. 3 sem. hrs.
Problems encountered in the development of instrumental programs in public schools; analysis of beginning method books for heterogeneous and homogeneous groups; and development of a course of study to guide the new teacher. Offered in the fall semester.

MUS 461. History/Literature Jazz. 3 sem. hrs.
History of the development of jazz to the present, from its African roots to its American florescence. Particular attention is paid to early styles and forms.

MUS 471. Lit Of The Piano. 2 sem. hrs.
Survey of the important solo repertoire from Bach through Schubert. Examination of the development of keyboard technique from the time of the harpsichord through the time of the early piano. Offered in the fall semesters of even-numbered years.

MUS 472. Lit Of The Piano. 2 sem. hrs.
Survey of the important solo repertoire from the early Romantic era through the present. Examination of the development of piano technique from Chopin and Liszt through Cage and Crumb. Offered in the spring semesters of odd-numbered years.

MUS 473. String Literature. 2 sem. hrs.
Study of the standard repertoire for bowed instruments, from the Baroque period to the present.

MUS 474. Song Literature. 3 sem. hrs.
Survey of the performance criteria and historical significance of the solo song literature of the United States, the British Isles, Germany, Austria, France, and Italy. Performance and class participation are required. Offered in alternate years.

MUS 475. Song Literature. 3 sem. hrs.
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 478. Organ Literature. 2 sem. hrs.
Continuation of MUS 477. Offered in spring of odd numbered years.

MUS 480. Music in Therapy I. 3 sem. hrs.
Study of diagnostic categories, standard clinical techniques, and applications in music therapy. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 380.

MUS 481. Music Therapy II. 3 sem. hrs.
Study of etiology, literature, and uses of music in treatment.
Prerequisite(s): MUS 480.

MUS 482. Music In Therapy III. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 481.

MUS 487. Sem Prof Pract Mu Therp. 2 sem. hrs.
Study of clinical administration, supervision, ethics, and professional behavior.

MUS 488. Comp Exam Music Therapy. 0 sem. hrs.

MUS 489. Music Therapy Internship. 6 sem. hrs.

MUS 490. Raising Money Dev Arts. 2 sem. hrs.
Theories and techniques of securing funds for nonprofit organizations, including donor cultivation and grant preparation. Offered in the fall semester.

MUS 492. Choral Conducting. 2 sem. hrs.
Continuation of MUS 351 with emphasis on the problem of the choral ensemble. A study of rehearsal technique, vocal problems, diction, score analysis, style, and choral literature. Offered in the spring semester.

MUS 494. Band Conducting. 2 sem. hrs.
Continuation of MUS 351 with emphasis on the problem of the wind ensemble. A study of baton technique, score reading, rehearsal procedure, and band literature. Offered in the spring semester.

MUS 496. Music Administration Internship. 3-6 sem. hrs.
A minimum of one semester of internship with the following recommended host organizations: (1) a performing arts organization, (2) a community, state, or regional arts council, (3) a performing arts venue, (4) a musical festival or (5) a reputable recording studio. The internship must have the approval of and will be under the supervision of the Music Administration Coordinator.

MUS 497. Senior Project. 1 sem. hr.
Required of all BA students in music (music and music administration): A substantial paper on a topic approved by the faculty advisor and completed in consultation with the advisor and examined by a faculty committee. In administration: a supervised practicum arranged through the advisor.

MUS 498. Indep Research In Mus. 1-6 sem. hr.

Music, Applied (MUA) Courses

MUA 010. Music Convocation. 0 sem. hrs.

MUA 100. Class Voice Beginning. 1 sem. hr.

MUA 121. Class Piano I. 1 sem. hr.

MUA 122. Class Piano II. 1 sem. hr.

MUA 123. Class Piano III. 1 sem. hr.

MUA 124. Class Piano IV. 1 sem. hr.

MUA 129. Guitar (Non-Majors). 0.5-1 sem. hrs.

MUA 130. Harp (Non-Majors). 0.5-1 sem. hrs.

MUA 131. Piano (Non-Majors). 0.5-1 sem. hrs.

MUA 132. Organ (Non-Majors). 0.5-1 sem. hrs.

MUA 133. Harpsichord (Non-Majors). 0.5-1 sem. hrs.

MUA 134. Voice (Non-Majors). 0.5-1 sem. hrs.

MUA 135. Violin (Non-Majors). 0.5-1 sem. hrs.

MUA 136. Viola (Non-Majors). 0.5-1 sem. hrs.

MUA 137. Cello (Non-Majors). 0.5-1 sem. hrs.

MUA 138. String Bass (Non-Majors). 0.5-1 sem. hrs.

MUA 139. Flute (Non-Majors). 0.5-1 sem. hrs.

MUA 140. Oboe (Non-Majors). 0.5-1 sem. hrs.

MUA 141. Bassoon (Non-Majors). 0.5-1 sem. hrs.

MUA 142. Clarinet (Non-Majors). 0.5-1 sem. hrs.

MUA 143. Saxophone (Non-Majors). 0.5-1 sem. hrs.

MUA 144. Trumpet (Non-Majors). 0.5-1 sem. hrs.

MUA 145. French Horn (Non-Majors). 0.5-1 sem. hrs.

MUA 146. Trombone (Non-Majors). 0.5-1 sem. hrs.

MUA 147. Euphonium (Non-Majors). 0.5-1 sem. hrs.

MUA 148. Tuba (Non-Majors). 0.5-1 sem. hrs.

MUA 149. Percussion (Non-Majors). 0.5-1 sem. hrs.

MUA 150. Symphony Orchestra. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 151. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 152. Wind Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 153. Marching Band. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 154. Symphonic Band. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 155. Trombone Choir. 0-1 sem. hrs.
Applied ensemble for trombone students at the freshmen level.

MUA 156. Percussion Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 157. Campus Band. 0-1 sem. hrs.
Applied ensemble at the freshmen level.

MUA 158. Contemp Music Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 159. Jazz Ensembles. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 160. Opera Workshop. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 161. Opera Production. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 162. University Chorus. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 163. University Singers. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 164. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the freshmen level.

MUA 166. Piano Ensemble I. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 167. Jazz Combo. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 168. Alabama Women's Chorale. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 169. Chamber Music. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 170. Harp (Majors). 1-4 sem. hr.

MUA 171. Piano (Majors). 1-4 sem. hr.

MUA 172. Organ (Majors). 1-4 sem. hr.

MUA 174. Voice (Majors). 0.5-4 sem. hrs.
Voice study at the freshman and sophomore levels for music majors.

MUA 175. Violin (Majors). 1-4 sem. hr.

MUA 176. Viola (Majors). 1-4 sem. hr.

MUA 177. Cello (Majors). 1-4 sem. hr.

MUA 178. String Bass (Majors). 1-4 sem. hr.

MUA 179. Flute (Majors). 1-4 sem. hr.

MUA 180. Oboe (Majors). 1-4 sem. hr.

MUA 181. Bassoon (Majors). 1-4 sem. hr.

MUA 182. Clarinet (Majors). 1-4 sem. hr.

MUA 183. Saxophone (Majors). 1-4 sem. hr.

MUA 184. Trumpet (Majors). 1-4 sem. hr.

MUA 185. French Horn (Majors). 1-4 sem. hr.

MUA 186. Trombone (Majors). 1-4 sem. hr.

MUA 187. Euphonium (Majors). 1-4 sem. hr.

MUA 188. Tuba (Majors). 1-4 sem. hr.

MUA 189. Percussion (Majors). 1-4 sem. hr.

MUA 190. Guitar (Majors). 1-4 sem. hr.

MUA 191. Practicum Applied Music. 1-3 sem. hr.

MUA 199. Sophomore Qualifying. 0 sem. hrs.

MUA 220. Class Guitar. 1 sem. hr.
Prerequisite(s): MUS 115.

MUA 229. Guitar (Secondary). 0.5-1 sem. hrs.
Applied guitar lessons as a secondary instrument for music majors only.

MUA 231. Piano (Secondary). 0.5-1 sem. hrs.
Applied piano lessons as a secondary instrument for music majors only.

MUA 232. Organ (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 233. Harpsichord (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 234. Voice (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 235. Violin (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 236. Viola (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 237. Cello (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 238. String Bass (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 239. Flute (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 240. Oboe (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 241. Bassoon (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 242. Clarinet (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 243. Saxophone (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 244. Trumpet (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 245. French Horn (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 246. Trombone (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 247. Euphonium (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 248. Tuba (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 249. Percussion (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 250. Symphony Orchestra. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 251. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 252. Wind Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 253. Marching Band. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 254. Symphonic Band. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 255. Trombone Choir. 1 sem. hr.
Applied ensemble for trombone students at the sophomore level.

MUA 256. Percussion Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 257. Campus Band. 0-1 sem. hrs.
Applied Ensemble at the sophomore level.

MUA 258. Contemporary Ensemble. 0-1 sem. hrs.
Applied ensemble focusing on music of the 20 and 21st centuries.

MUA 259. Jazz Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 260. Opera Workshop. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 261. Opera Production. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 262. University Chorus. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 263. University Singers. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 264. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the sophomore level.

MUA 266. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the sophomore level for keyboard majors.

MUA 267. Jazz Combo. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 269. Chamber Music. 0-1 sem. hrs.
Sophomore level small ensemble.

MUA 270. Harp (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 271. Piano (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 272. Organ (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 273. Harpsichord (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 274. Voice (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 275. Violin (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 276. Viola (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 277. Cello (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 278. String Bass (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 279. Flute (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 280. Oboe (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 281. Bassoon (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 282. Clarinet (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 283. Saxophone (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 284. Trumpet (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 285. French Horn (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 286. Trombone (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 287. Euphonium (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 288. Tuba (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 289. Percussion (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 290. Guitar (Majors). 1-4 sem. hr.
Applied study at the sophomore level for music majors.

MUA 299. Piano Proficiency. 0 sem. hrs.

MUA 331. Piano II (Secondary). 0.5-1 sem. hrs.
Secondary applied piano study for music education students in the third and fourth semester of piano.
Prerequisite(s): MUA 231.

MUA 334. Voice II (Secondary). 0.5-1 sem. hrs.
Secondary applied voice for music majors in the third and fourth semesters of taking the course.
Prerequisite(s): MUA 234.

MUA 350. Symphony Orchestra. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 351. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 352. Wind Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 353. Marching Band. 0-1 sem. hrs.
Marching Band at the junior level.

MUA 354. Symphonic Band. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 355. Trombone Choir. 0-1 sem. hrs.
Applied ensemble for trombone students at the junior level.

MUA 356. Percussion Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 357. Campus Band. 0-1 sem. hrs.
Applied ensemble at the Junior level.

MUA 358. Contemp Music Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 359. Jazz Ensembles. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 360. Opera Workshop. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 361. Opera Production. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 362. University Chorus. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 363. University Singers. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 364. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the junior level.

MUA 366. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the junior level for keyboard majors.

MUA 367. Jazz Combo. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 369. Chamber Music. 0-1 sem. hrs.
Applied ensemble in a small chamber group.

MUA 370. Harp (Majors). 0.5-4 sem. hrs.

MUA 371. Piano (Majors). 0.5-4 sem. hrs.

MUA 372. Organ (Majors). 0.5-4 sem. hrs.

MUA 374. Voice (Majors). 0.5-4 sem. hrs.

MUA 375. Violin (Majors). 0.5-4 sem. hrs.

MUA 376. Viola (Majors). 0.5-4 sem. hrs.

MUA 377. Cello (Majors). 0.5-4 sem. hrs.

MUA 378. String Bass (Majors). 0.5-4 sem. hrs.

MUA 379. Flute (Majors). 0.5-4 sem. hrs.

MUA 380. Oboe (Majors). 0.5-4 sem. hrs.

MUA 381. Bassoon (Majors). 0.5-4 sem. hrs.

MUA 382. Clarinet (Majors). 0.5-4 sem. hrs.

MUA 383. Saxophone (Majors). 0.5-4 sem. hrs.

MUA 384. Trumpet (Majors). 0.5-4 sem. hrs.

MUA 385. French Horn (Majors). 0.5-4 sem. hrs.

MUA 386. Trombone (Majors). 0.5-4 sem. hrs.

MUA 387. Euphonium (Majors). 0.5-4 sem. hrs.

MUA 388. Tuba (Majors). 0.5-4 sem. hrs.

MUA 389. Percussion (Majors). 0.5-4 sem. hrs.

MUA 390. Guitar (Majors). 0.5-4 sem. hrs.

MUA 391. Practicum Applied Music. 1-3 sem. hr.

MUA 399. Junior Recital. 1 sem. hr.

MUA 450. Symphony Orchestra. 0-1 sem. hrs.
Senior level ensemble.

MUA 451. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 452. Wind Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 453. Marching Band. 0-1 sem. hrs.
Senior level ensemble.

MUA 454. Symphonic Band. 0-1 sem. hrs.
Senior level ensemble.

MUA 455. Trombone Choir. 1 sem. hr.
Applied ensemble for trombone students at the Senior level.

MUA 456. Percussion Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 457. Campus Band. 0-1 sem. hrs.
Applied ensemble at the Senior level.

MUA 458. Contemporary Ensemble. 0-1 sem. hrs.
Applied ensemble at the senior level focusing on music of the 20th and 21st centuries.

MUA 459. Jazz Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 460. Opera Workshop. 0-1 sem. hrs.
Senior level ensemble.

MUA 461. Opera Production. 0-1 sem. hrs.
Senior level ensemble.

MUA 462. University Chorus. 0-1 sem. hrs.
Senior level ensemble.

MUA 463. University Singers. 0-1 sem. hrs.
Senior level ensemble.

MUA 464. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singer at the senior level.

MUA 466. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the senior level for keyboard majors.

MUA 467. Jazz Combo. 0-1 sem. hrs.
Senior level ensemble.

MUA 469. Chamber Music. 0-1 sem. hrs.
Senior level small ensemble.

MUA 471. Piano (Majors). 0.5-4 sem. hrs.
Senior level applied piano study for music majors.
Prerequisite(s): MUA 371.

MUA 472. Organ (Majors). 0.5-4 sem. hrs.
Senior level applied organ study for music majors.
Prerequisite(s): MUA 372.

MUA 473. Harpsichord (Majors). 0.5-4 sem. hrs.
Senior level applied harpsichord study for music majors.

MUA 474. Voice (Majors). 0.5-4 sem. hrs.
Senior level applied voice study for music majors.
Prerequisite(s): MUA 374.

MUA 475. Violin (Majors). 0.5-4 sem. hrs.
Senior level applied violin study for music majors.
Prerequisite(s): MUA 375.

MUA 476. Viola (Majors). 0.5-4 sem. hrs.
Senior level applied viola study for music majors.
Prerequisite(s): MUA 376.

MUA 477. Cello (Majors). 0.5-4 sem. hrs.
Senior level applied cello study for music majors.
Prerequisite(s): MUA 377.

MUA 478. Sting Bass (Majors). 0.5-4 sem. hrs.
Senior level applied string bass study for music majors.
Prerequisite(s): MUA 378.

MUA 479. Flute (Majors). 0.5-4 sem. hrs.
Senior level applied fluted study for music majors.
Prerequisite(s): MUA 379.

MUA 480. Oboe (Majors). 0.5-4 sem. hrs.
Senior level applied oboe study for music majors.
Prerequisite(s): MUA 380.

MUA 481. Bassoon (Majors). 0.5-4 sem. hrs.
Senior level applied bassoon study for music majors.
Prerequisite(s): MUA 381.

MUA 482. Clarinet (Majors). 0.5-4 sem. hrs.
Senior level applied clarinet study for music majors.
Prerequisite(s): MUA 382.

MUA 483. Saxophone (Majors). 0.5-4 sem. hrs.
Senior level applied saxophone study for music majors.
Prerequisite(s): MUA 383.

MUA 484. Trumpet (Majors). 0.5-4 sem. hrs.
Senior level applied trumpet study for music majors.
Prerequisite(s): MUA 384.

MUA 485. French Horn (Majors). 0.5-4 sem. hrs.
Senior level applied french horn study for music majors.
Prerequisite(s): MUA 385.

MUA 486. Trombone (Majors). 0.5-4 sem. hrs.
Senior level applied trombone study for music majors.
Prerequisite(s): MUA 386.

MUA 487. Euphonium (Majors). 0.5-4 sem. hrs.
Senior level applied euphonium study for music majors.
Prerequisite(s): MUA 387.

MUA 488. Tuba (Majors). 0.5-4 sem. hrs.
Senior level applied tuba study for music majors.
Prerequisite(s): MUA 388.

MUA 489. Percussion (Majors). 0.5-4 sem. hrs.
Senior level applied percussion study for music majors.
Prerequisite(s): MUA 389.

MUA 490. Guitar (Majors). 1-4 sem. hr.
Senior level of applied guitar study for music majors.
Prerequisite(s): MUA 390.

MUA 499. Senior Recital. 1 sem. hr.

New College (NEW) Courses

NEW 100. Intro Interdisc Integratv Stdy. 1-2 sem. hr.
Designed to help New College students become more informed about the University and about New College so that they may maximize their opportunities in their undergraduate programs through New College. Enrollment is limited to New College students.

NEW 155. Freshman Seminar. 3 sem. hrs.

NEW 200. Prior Learning. 1-99 sem. hr.

NEW 201. Recreation For Life. 1 sem. hr.
In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 202. Recreation For Life. 1 sem. hr.
In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 211. Perspectives in the Humanities. 4 sem. hrs.
Introductory course in the humanities (art, literature, music, etc.) with a focus on problem solving, risk taking and communication. Human behavior and writing skills are stressed.

NEW 212. Creativity. 4 sem. hrs.
This interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion.

NEW 215. Perspec. on Env. Literature. 4 sem. hrs.
Considers perspectives on environmental studies within the humanities by examining key texts of environmental literature.

NEW 222. Academic Potential. 2 sem. hrs.
This course is designed to assist students in developing practical study strategies and attitudinal elements of college success. Topics of primary focus include self-assessment, motivation, personal responsibility, time management, memory, textbook reading, note taking, test preparation, and exam taking. Open to all students.

NEW 223. Mcnair Scholar'S Seminar. 1 sem. hr.
To provide knowledge and skills in a variety of areas to strengthen personal, academic, and research competencies vital to success in graduate programs.

NEW 226. Organic Farming. 4 sem. hrs.
An intensive, hands-on course in organic farming taught at a local working farm. Covers the basics of organic farming while also addressing questions about organic versus industrial agriculture models in relation to current environmental problems and solutions.

NEW 230. Environmental Studies. 4 sem. hrs.
This course engages students in the study of environmental problems and solutions. It includes an examination of fundamental assumptions about the ethical human-nature relation and of how to value nature. The approach is interdisciplinary, drawing on the humanities, social sciences, and natural sciences.

NEW 237. Cooperation & Conflict. 4 sem. hrs.
This seminar explores cooperation and conflict in human societies; all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 238. Honors: Coop. & Conflict. 4 sem. hrs.
This honors seminar explores cooperation and conflict in human societies – all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 243. Interdisciplinary Sciences. 4 sem. hrs.
This seminar demonstrates how the nature of the laboratory experience plays an essential role in the understanding and advancement of science. Several multidisciplinary experiments are performed in geology, chemistry, physics, and biology.

NEW 270. Leader Soc Justice Activism. 3 sem. hrs.

NEW 273. Social Issues & Ethics. 4 sem. hrs.
This seminar is designed to develop an awareness of the methodologies and concerns of the social sciences as they relate to ethical inquiry. The primary focus is on the nature of inquiry and models for the analysis of ethical issues confronting the modern world. Students will explore the complexity of moral dilemmas and effective societal responses to competing moral obligations in the areas of health care, socio-economic disparities, affirmative action, immigration, and racism.

NEW 310. Independent Study. 1-15 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 311. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 312. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 313. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 314. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 315. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 316. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 317. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 318. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 319. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 320. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 321. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 322. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 332. Experimental Music. 3 sem. hrs.
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We'll begin by defining what experimental music is – what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hop, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 333. CIEL Internship . 9-15 sem. hrs.
This course serves as the course students register for as part of the exchange program with the Consoritum for Innovative Environment in Learning. Students pay tuition to UA but actually study as a full-time student at one of the 12 CIEL sister institutions.

NEW 338. New College Review I. 2 sem. hrs.
This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students gain experience in thematic approaches to a publication, concept formation for an audience, socially responsible publishing, and writing and editing persuasive essays. Students are strongly encouraged to take both.

NEW 339. New College Review II. 2 sem. hrs.
This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students edit, design, and distribute the New College Review. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW 341. Social Action and Performance. 3 sem. hrs.
Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted
Prerequisite(s): EN 101 and EN 102.

NEW 342. Social Action and Performance. 3 sem. hrs.
Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted.
Prerequisite(s): (EN 101 and EN 102) or EN 103.

NEW 360. Sound Studies. 3 sem. hrs.
How do we experience, define, use and abuse sound? What elements of a sound determine their meaning to us, and why? What can we learn about the world by focusing on its sounds? An emerging interdisciplinary field of research, sound studies asks these questions and more, in an attempt to uncover the important role of sound in our lives. Why do shopping malls sound like they do? What do cellphone ringtones tell you about a person? How has the changing soundscape of the ocean affected natural processes and wildlife? Why do clocktower bells ring? How is music used to both soothe, entertain, and torture or control people? This interdisciplinary course explores sound in a variety of current and historical global contexts – of which music is only one small part – examining the many ways sound signifies and defines our cultures and histories. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 361. Handmade Sounds: A Hands-on History of Electronic Music. 4 sem. hrs.
Did you know you can make electronic music with credit cards? Old toys? 30-cent circuit boards? This course will teach you to build your own electronic orchestra from scratch while also exploring the history of electronic music, with a special focus on tinkering experimenters that created electronic music using self-made instruments. Through a combination of theory and practice, you will learn about electronic music's pioneers, recreating some of their early experiments to experience this history with your own hands and ears. We will explore the construction of a variety of simple electronic instruments, learn to play them, and perform a concert at the end of the term. No previous musical or technical experience is required, but there will be a significant amount of hands-on work with tools and wires in addition to the usual course load of reading, writing and discussion, so an interest in working with technology is a must. Each day of the course we will discuss the work of historical figures in electronic music followed by a laboratory period of hands-on exploration and creation. You are required to write 10 500-word essays articulating your response to the course materials. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 365. Introduction to Environmental Policy. 3 sem. hrs.
This introductory environmental policy course reviews major developments in environmental regulation in the United States, considered in a global context. Readings examine the evolution of U.S. environmental policy, the form and function of social institutions used to govern human-environment interactions, including markets, state and civil society, and conventions, norms, and morals. U.S. and U.N. legal structures, agencies, and NGOs are addressed, with attention to comparative regulatory frameworks. The "new institutional approach," "resource regimes," and various incremental and transformative institutional reforms are discussed. The impact of economic and cultural factors—including class, race, gender, and location—on resource use and other policy decisions affecting the physical and built environments will be explored. Evolving institutional approaches to energy use, such as sustainability, "wise use," adaptive management, and resilience are examined.
Prerequisite(s): No prerequisites.

NEW 401. Birds and Birding. 4 sem. hrs.
This course will introduce students to the popular hobby of birding or bird watching. As such, basic field identification methods will be reviewed and practiced. We will also discuss larger conservation issues as they relate to birds. As we will learn, the phrase “canary in a coal mine” has very practical implication for the modern terrestrial world. We will also discuss the cultural connection between people and birds, and what that has meant for both the destruction and conservation of birds during the past couple of centuries.

NEW 407. 407 W: Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

NEW 412. Songwriting Workshop. 4 sem. hrs.
Songcraft:songwriting workshop focuses on how songs are made. After a study of various genres (blues, troubadours, popular) students will produce their own songs. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 413. Mythologies. 4 sem. hrs.
This course in comparative mythology introduces students to mythological systems from a variety of cultures, including preclassical, Greek, American Indian, Oriental, African, and contemporary American. Recurring motifs and current theories on the mythologizing process are analyzed.

NEW 415. Gender, Sexuality &Pop Culture. 3 sem. hrs.
What constitutes "femininity" and "masculinity" in 21st century America? How have gender roles changed? Is gender performance? What are the cultural expectations around sexuality, and how is it influenced and policed in society? Includes professor’s current case research in this field. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 416. American Environmental Thought. 3 sem. hrs.
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization.

NEW 418. Mash-Up: Intermedia Intersections in the Arts. 4 sem. hrs.
This interdisciplinary course discusses intermedia intersections in 20th and 21st century art and music through lectures, discussions and interactions with visiting artists. We will examine the cultural and historical roots of intermedia art, the outpouring of experimentation in the 20th century avant-garde, and the postmodern pastiche of the digital realm in the 21st century. Spanning work created for galleries, to art and music from urban streets and rural villages, we will explore examples from the visual arts, dance, music, film and architecture to learn how and why artists work with and combine different media. In addition to engaging with a variety of artistic works, we will discuss the cultural, philosophical, theoretical, and compositional issues that meet at intermedia junctions. Writing proficiency is required for a passing grade in this course.

NEW 434. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

NEW 435. Documenting Justice II. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.
Prerequisite(s): NEW 434.

NEW 436. Public Leadership. 4 sem. hrs.
This seminar helps students develop the understanding and skills necessary for the practice of public leadership. The course emphasizes framing public issues for discussion and leading the decision making necessary to set the direction of public policy. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 437. Civic Awareness. 4 sem. hrs.
Current events are examined through print and electronic media in order to assist students in evaluating various sources of information concerning public issues and in developing a public philosophy for responsibilities as a citizen.

NEW 439. Urban Spaces: The Nature of Cities. 3 sem. hrs.
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present.

NEW 441. Climate Change Seminar. 4 sem. hrs.
This seminar introduces students to the science of global climate change and examines public perception and coverage of the topic in various news media outlets, films, and books. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 442. Environmental Ethics and Problems. 3 sem. hrs.
This upper level writing intensive seminar explores the ethical dimensions of ecological relationships, with particular attention to conceptions of nature, justice, and environmental health. We will consider classical ethical concepts, such as utilitarianism and natural law theories, and contemporary environmental approaches, including biocentrism, deep ecology, environmental justice, eco-feminism, and sustainability. This course will be highly interactive, inviting critical thinking about changing ideas about the human place in the natural world. Examining various case studies, we explore the ethical debates surrounding such topics as populations, genetically altered crops, global climate change, biodiversity, and emerging crises in global environmental public health. Readings also address corporate responsibility, science ethics, and public policy. We will consider the ethics of sustainability from the campus to the transnational level. This course meets a college core writing requirement; a demonstration of writing proficiency is required for a passing grade in this course. The course has New College designations for Environment, Sustainability, and Conservation (ESC) and Social Problems and Social Change (SPSC).

NEW 443. Science & Technology. 4 sem. hrs.
The course teaches scientific concepts (time and laws of thermodynamics, change, measurement, reality, etc.) as they relate to the various sciences (anthropology, mathematics, etc.). The relationship of science and technology to the environment of the Earth’s surface is stressed.

NEW 446. Gender and Environment. 3 sem. hrs.
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform.

NEW 450. Conservation Field Studies in Belize. 4 sem. hrs.
Study Belize’s diverse rainforests, coral reefs, and visit Mayan ruins for a glimpse into a past civilization. Belize is unique in that it still contains relatively undisturbed rainforests and the longest barrier reef in the Western Hemisphere. However, while Belize has emerged as an international leader regarding conservation efforts, threats from climate change, poverty, and development still exist. The purpose of this course is 1) examine current conservation efforts to safeguard this biodiversity; 2) familiarize students with the most important aspects of tropical lowland terrestrial and marine ecosystems; 3) understand the role of local culture in sustainable conservation; 4) gain an understanding of the fundamental importance of biodiversity; and 5) expose students to new and unique cultures and environments. The course is designed for students who are interested in conservation issues, biogeography, marine sciences, ornithology and birding, archaeology, and outdoor adventures! The trip will be divided between a rainforest and a marine field station located next to the barrier reef. So we will have easy access the most diverse environments on the planet.

NEW 472. Social Change. 4 sem. hrs.
This seminar is concerned with the process and analysis of social change. In this seminar, students study the Holocaust, attempting to understand it as an intense and unparalleled human experience. The causes, events, outcomes, and implications are researched through books, films, interviews, tapes, and discussions. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 473. Globalization & Folk Crft Prod. 4 sem. hrs.
This course examines the relationship between the global and the local, using world folk craft (for example, pottery) as a point of focus. The functions of creativity in industrialized and nonindustrialized societies are explored through a combination of reading, research, discussion, and studio experiences. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 474. Survival. 4 sem. hrs.
In this seminar, students study the nature of human and societal survival under extreme conditions. Topics range from issues of a global nature to violent crime, prejudice, and disease. Causes, effects, and possible solutions are all considered. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 490. Special Topics. 3-4 sem. hrs.
The subject matter varies.

NEW 491. Special Topics - Practice. 3-4 sem. hrs.
Subject matter varies. Hands on interdiscplinary learning opportunities.

NEW 495. Capstone Sem & Senior Project. 2 sem. hrs.
14 hours of New College coursework and successful junior year review. New College students only, concluding integrative project.

Norwegian (NOR) Courses

NOR 101. Elem Norwegian Language. 3 sem. hrs.
Contemporary Norwegian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

Philosophy (PHL) Courses

PHL 100. Intro To Philosophy. 3 sem. hrs.
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge. Offered in the fall and spring semesters.

PHL 104. Critical Thinking. 3 sem. hrs.
Introduction to the concepts and methods used to identify, construct, and assess arguments as they appear in editorials, articles, ordinary speech, etc.

PHL 106. Honors Introduction to Deductive Logic. 3 sem. hrs.
This course examines some of the formal techniques developed by philosophers and mathematicians to distinguish a good argument from a bad one. It is a self-paced course using both computer-aided learning techniques and one-on-one guidance from the instructor and the teaching assistants. The Honors version of Introduction to Deductive Logic expects mastery of more concepts, tools, and techniques of formal deductive logic than the standard version.
Prerequisite(s): MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR PLMA 190 OR ACT 28 OR SAT 690.

PHL 112. Phil. and the Law: Civil Law. 3 sem. hrs.
Explores issues in property law and in tort law, such as the notion of intellectual property and what should count as negligence. Open only to Freshmen.

PHL 140. Philosophy and the Law. 3 sem. hrs.
Philosophy and the Law explores philosophical questions arising in three separate areas: criminal law, constitutional law, and civil law. We will consider theories about what kinds of behavior should be criminal and what (if an anything) morality should have to do with the criminal law. We will also consider what restrictions the constitution ought to place on the state's efforts to enforce the criminal law by searching someone's residence or keeping him under surveillance, and whether those restrictions should differ when the crime is an act of terrorism. Under civil law, we will discuss the concepts of negligence and fraud.

PHL 191. Honors Introduction to Philosophy. 3 sem. hrs.
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge.

PHL 195. Introduction to Deductive Logic. 3 sem. hrs.
This is a course in deductive logic. We will focus on some formal tools for evaluating arguments. To make an argument is to offer reasons to believe some claim. More formally, an argument is a pair of things: a set of sentences, the premises; and a sentence, the conclusion. An argument is valid if it meets the following condition: it is necessary that if all its premises are true, its conclusion is true. In this class, you will learn about how to use two symbolic languages to write arguments, how to construct proofs of conclusions, and how to tell when arguments are not valid.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125.

PHL 201. Ancient Phl. 3 sem. hrs.
History of philosophy from Thales to Aristotle. Offered in the fall semester.

PHL 211. Ancient Philosophy. 3 sem. hrs.
This course will focus on the major themes of ancient Greek philosophy, from the earliest pre-Socratic philosophers, through Plato and Aristotle, to the later Epicureans, Stoics, and Skeptics. We will proceed chronologically and pay special attention to the systematic connections between metaphysics, epistemology, and ethics in each school of thought, as well as the development of later views in light of criticisms of earlier ones. The aim of this course is to provide students a reasonably comprehensive background in the main areas of Western analytic philosophy through an examination of some of the earliest systematic philosophies.

PHL 212. Early Modern Philosophy. 3 sem. hrs.
This course will look at the main figures and intellectual developments of the early Modern period of philosophy. We will proceed chronologically, starting with Descartes's,seminal Meditations on First Philosophy and tracing two very different branches of influence from there to what are often called the Rationalist and Empiricist schools. Other figures,of note will be Locke, Leibniz, Berkeley, Hume, and Kant.

PHL 215. American Philosophy. 3 sem. hrs.
Relatively few courses are offered on American philosophy, in spite of the fact, that the United States has become a worldwide center of philosophy, and is the home of Pragmatism, one of the three major philosophical approaches. This course will be an introduction to American philosophy from the theologian Jonathan Edwards and the political philosophers who had a hand in the founding of America, to classic pragmatists such as Peirce, James and Dewey, and leading 20th century thinkers, such as Quine, Kuhn, Rorty, Putnam and others.

PHL 220. Political Philosophy. 1 or 3 sem. hr.
What are the proper aims of government, and the proper scope of its power? The views of Aristotle, Locke, Mill, and Marx will be explored, as well as the implications for current issues such as civil rights, income redistribution and welfare programs, and the protection of the environment.

PHL 221. Honors Introduction to Ethics. 3 sem. hrs.
This course is designed to give the students a broad introduction to the field of philosophical ethics. The primary aim is to acquaint students with the basic subject matter of ethics as it is studied within philosophy, a few central authorities and positions, and a feel for how philosophers engage with contemporary ethical issues in light of some of the historical influences on the discipline. We will read a variety of texts ranging from historical works on ethics generally to contemporary works focusing on specific moral issues. The hope is that students will develop an understanding and appreciation of how different ethical theories apply to particular cases, and how they might begin to engage in genuine ethical debates. Admission to UA Honors is required.

PHL 223. Medical Ethics. 3 sem. hrs.
This class provides an introduction to the philosophical study of applied ethics by way of a discussion of,topics related to the practice of medical and biological science. Topics of discussion will include abortion, stem cell research, cloning, the allocation of scarce or limited resources, animal experimentation, and patient, autonomy, among others. Along the way, other important topics in moral philosophy will be discussed.

PHL 230. Political Philosophy. 3 sem. hrs.
This course serves as an introduction to central debates in political philosophy. The major questions we explore are the following: How can the coercive authority the government exercises over its citizens be justified? What does justice require in our society today? What role do democracy, freedom, rights, and equality play in our understanding of a just society? Through the study of both historical and contemporary texts, we investigate these topics. We also consider how these issues bear upon debates in the contemporary American context concerning the following: restrictions on free speech, participation in the democratic process, the war on drugs, homelessness, education, and socioeconomic inequality.

PHL 231. Social Justice in Practice. 1 sem. hr.
What does justice require in our society today? With a focus on contemporary social and political issues, we seek to answer this question by looking at different dimensions of justice. We consider how the ideals of democracy, freedom, rights, and equality ought to inform our understanding of a just society. In particular, we focus on how these ideals translate into practice with respect to philosophical debates about immigration, poverty, political participation, and socioeconomic inequality.,In addition to learning about these issues in the class-room, students will develop a deeper understanding of social justice through engagement with a community project. The service-learning component of the course involves regular participation in a community program working with disadvantaged and/or marginalized populations.
Prerequisite(s) with concurrency: PHL 230.

PHL 234. Social Philosophy. 3 sem. hrs.
How should we live together? In this course, we seek to answer this question through moral assessment of the institutional rules and cultural norms that shape our interaction with others and the world around us. We specifically consider issues in the following two categories: I. Markets & consumption. In the modern-day economy, we must grapple with important issues concerning the responsibilities of individual consumers and corporations, what goods may be legitimately bought and sold in a free market, and how economic transactions between nations should be structured to count as fair. II. Violence. One of the features thought to make the state distinctive is that it has a monopoly over the legitimate use of force. Given this power, we will examine the legitimate use of violence by the government. Is the death penalty justified? Is the use of torture permissible under any circumstances? How should it deal with terrorists as opposed to traditional combatants in war?

PHL 236. Intro Philosophy Of Science. 3 sem. hrs.
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 241. Philosophical Issues in Criminal Law. 3 sem. hrs.
Philosophical Issues in Criminal Law explores two general questions: what kinds of behavior should be criminal, and how should we determine what happens to someone who is convicted of a criminal offense. These are pursued with the help of three theorists, John Stuart Mill, Patrick Devlin and David Lyons.,More specific topics include how the criminal law should treat assisting someone who is committing suicide, how "consent" is to be defined where sexual offenses are concerned, and whether judges should hear "victim impact statements."

PHL 242. Philosophical Issues in Civil Law. 3 sem. hrs.
A philosophical exploration of selected topics in tort law. The aim is for you to work toward reasoned positions of your own about the law concerning these issues.

PHL 243. Philosophical Issues in Constitutional Law. 3 sem. hrs.
The government is expected to enforce the criminal law, and to protect us from terrorism. However, the Constitution restricts what the government may do in carrying out these responsibilities. We will be concerned with what those restrictions ought to be, with regard to such matters as searching someone's apartment, questioning someone in public, tapping a phone, conducting physical surveillance of a public place, and eliciting a confession to a crime. We will also think about how, if at all, the restrictions on these should be different when the government is fighting terrorism than when it is fighting crime. We will use the language in the Constitution and in leading legal decisions to help us think about these questions.

PHL 256. Philosophy of Sport. 3 sem. hrs.
This course will examine some of the major themes in the burgeoning field of philosophy of sport, paying special attention to a number of important ethical issues. We will look at the nature of sports (and games more generally), sportsmanship and fairness, the role of officials, gender equity, racism, and issues surrounding the use of performance-enhancing drugs. This course is reading intensive. Prior exposure to philosophy is welcome but not required.

PHL 260. Mind and Nature. 3 sem. hrs.
This course is framed around two questions. First, what is the place of the mind in nature? Second, what is the place of nature in the mind? The first question is a form of mind/problem, which concerns the relationship between mental phenomena such as consciousness and the physical world. The second question is a part of the epistemology, the philosophy of knowledge, and concerns the nature and scope of human knowledge.

PHL 264. Introduction to Metaphysics. 3 sem. hrs.
Topics may include proofs for the existence of God, the nature of reality, free will and determinism, personal identity, and the nature of time.

PHL 281. Introduction to Philosophy of Religion. 3 sem. hrs.
This course is an introduction of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality.

PHL 286. Introduction to Philosophy of Science. 3 sem. hrs.
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 290. Special Topics in Philosophy. 1-3 sem. hr.
This course offers introductory-level study of a special philosophical topic that is not a part of the Department's regular course offerings.

PHL 291. Aesthetics. 3 sem. hrs.
In this course, we will be introduced to some of the most fundamental concerns about art: What is distinctive, if anything, about the experience of artworks? Why do we identify anything as a work of art? How do we, or should we interpret an artwork? On what grounds can we criticize an artwork?

PHL 292. Introduction to Ethics. 3 sem. hrs.
Introduction to competing views of how one ought to live, designed to promote the development of a reasoned view of one's own. May include such topics as ethical relativism, the nature of justice and of rights, and the relationship of law and morality.

PHL 305. Symbolic Logic. 3 sem. hrs.
This course aims to improve students' understanding of the basic concepts of formal logic, particularly the truth-functional and predicate calculi. Students learn convenient methods of formal reasoning, and use them to study some of the basic notions of metalogic. B- or better in PHL 195 or C or better in PHL 106, or Instructor's permission is required.
Prerequisite(s): B- or better in PHL 195 or C or better in PHL 106.

PHL 309. Teaching Practicum. 3 sem. hrs.
This course number is for students who are receiving course credit for working as TAs for philosophy classes. Ordinarily, students working as TAs for classes are responsible for taking roll, proctoring and grading tests, and, most importantly, providing tutorial assistance to the students. Specific duties might vary depending on the needs of the class.

PHL 312. Contemporary Philosophy. 3 sem. hrs.
Philosophy in the 20th century. Topics may include linguistic analysis, logical atomism, logical positivism, ordinary language philosophy, existentialism, and phenomenology.

PHL 332. Theories of Justice. 3 sem. hrs.
Advanced study of prominent theories of prominent historical and contemporary theories of justice (for example, those of Plato, Aristotle, Rawls, or Nozick) and the implication of those theories for political problems such as the distribution of health care, affirmative action, or public goods.

PHL 333. Global Justice. 3 sem. hrs.
In an increasingly globalized world, questions of global justice have risen to prominence in contemporary political philosophy. In this course we examine the following issues. Do the demands of justice transcend state borders? Do we have reason to think that different demands of justice apply at the global level than at the state level? How do increased levels of global interdependence bear upon what we owe to foreigners versus to our fellow citizens? Does the global order harm the world's poor? Are there any universal human rights? If so, how are they justified and who is responsible for upholding them? Drawing on competing contemporary philosophical accounts of justice, we consider different ways of addressing concrete practical issues such as global poverty and inequality, humanitarian intervention, and immigration. You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above. If you do not meet this requirement, you must obtain special permission from the instructor. This 3-credit hour course carries a W designation. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite(s): two PHL classes or instructor's permission.
Prerequisite(s): Two PHL classes or instructor's permission.

PHL 336. History of Philosophy: David Hume. 3 sem. hrs.
This course is an extended investigation into the works of one of the great philosophers in the history of the West, David Hume.

PHL 360. Philosophy of Mind. 3 sem. hrs.
What is the relationship between the mental and the physical? That is the central question in the philosophy of mind, and we will approach it from different angles. We will focus largely on consciousness and its place in nature. Most readings will be from the contemporary literature but some will be historical. This course carries a W designation, and so writing proficiency within the discipline of philosophy is required for a passing grade in this course. Two philosophy courses or instructor's permission. PHL 260 Mind and Nature is recommended but not required.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.

PHL 362. Mind, Language, and Reality. 3 sem. hrs.
This course concerns the nature of meaning and its connection to metaphysics and epistemology. We will study classic works by Gottlob Frege, Bertrand Russell, Saul Kripke, and others. We will also study more recent work in philosophical semantics and its application to arguments in the philosophy of mind. Writing proficiency within this discipline is required for a passing grade in this course. Must have taken Introduction to Deductive Logic (PHL 195 or 106) and one other philosophy course, or have instructor's permission.
Prerequisite(s): PHL 195 OR PHL 106 and one other PHL course.

PHL 364. Philosophy of Cognitive Science. 3 sem. hrs.
This course addresses some core questions in the philosophy of cognitive science. Topics covered are likely to include: the computational theory of mind, the role of mental representations in cognition, the extended mind hypothesis, and mechanisms of mental state attribution. Writing proficiency is required for a passing grade in this course. Need to have taken at least two previous philosophy courses.

PHL 366. Metaphysics. 3 sem. hrs.
Advanced study of such traditional metaphysical problems as personal identity, the mind-body problem, action theory, free will, universals, the nature of space and time, creation, causation, and purpose. Must have taken at least two philosophy courses prior to this course.

PHL 370. Epistemology. 3 sem. hrs.
This course surveys issues in the philosophical study of knowledge. Typical questions addressed include: What is the nature of knowledge? What are the limits of what we can know? When is a belief justified? What can science tell us about the nature of knowledge or rational thought? Must have taken at least two philosophy courses prior to this course. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.

PHL 381. Philosophy of Religion. 3 sem. hrs.
Advanced study of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality. At least two previous philosophy courses required.

PHL 387. Philosophy and Evolution. 3 sem. hrs.
The “Darwinian Revolution” – the acceptance and development of evolutionary theory - is one of the most significant intellectual events in recent human history. It is significant partly because it has changed the way we understand the world, and the processes that operate within it. But it is also significant for the philosophical issues it raises about scientific method, conceptions of human nature, biodiversity, knowledge, ethics and the arts. This course will examine these philosophical issues raised by the Darwinian revolution. Writing proficiency within this discipline is required for a passing grade in this course.

PHL 390. Special Topics in Philosophy. 1-3 sem. hr.
This course offers advanced study of a special philosophical topic or movement that is not a part of the Department’s regular course offerings.

PHL 391. History of Philosophy. 3 sem. hrs.
Advanced study of a particular philosopher or philosophical movement or problem in the history of philosophy. Must have taken at least two previous philosophy courses or permission of instructor.

PHL 392. Special Topics in Philosophy (Writing Intensive). 3 sem. hrs.
With an emphasis on philosophical writing, this seminar offers advanced study of a special philosophical topic that is not a part of the Department’s regular course offerings. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite: successful completion of at least two PHL courses.
Prerequisite(s): At least two previous philosophy courses required.

PHL 409. Research in Philosophy. 1-3 sem. hr.
This course is an opportunity to do self-directed study and writing in an approved topic.

PHL 420. Special Studies in Ethics. 3 sem. hrs.
Advanced study of current topics in ethics, which could include study of a particular moral theory or moral problem.

PHL 428. Metaethics. 3 sem. hrs.
In this seminar we will explore issues in contemporary metaethics. Metaethics is concerned with the nature of moral properties, what moral claims mean, and how moral knowledge can be justified. In our everyday lives, we make a number of moral judgments—for instance, that we should not lie to a friend or that it is wrong to steal. Can these moral judgments be factually true, or are they just a matter of opinion? How do we come to know what is right or wrong? These are some of the key questions that will be explored in this course.

PHL 440. Seminar on Law. 3 sem. hrs.
The Fifth Amendment says that “No person…shall be compelled in any criminal case to be a witness against himself.” What that means depends on what it is to be “a witness against” yourself, and on what it means to compelled to be one rather than being induced in some other way to do so. ,We will pursue what those terms ought to mean, if there is to be a rule of this kind. We will also consider the reasons for having such a rule, whether (in the end) they are good enough to mean we should have one, and whether the rule should apply when the state is fighting terrorism or only when it is fighting ordinary crime.
Prerequisite(s): PHL 292 OR PHL 221 OR PHL 243.

PHL 448. Philosophy of Law. 3 sem. hrs.
This is a seminar on the nature of law and legal systems. Classic positions to be explored include the natural law theory, legal positivism, legal realism, and the theory advanced by Ronald Dworkin. Specific topics to be explored include the idea that there is an obligation to obey the law, what it is for a judge to follow precedent, and whether legal systems should include juries. The course concludes with a negotiation exercise. Please note that writing proficiency within this discipline is required for a passing grade in the course. You must write coherent, logical, and carefully edited prose, and you must argue clearly and well for the positions you take.
Prerequisite(s): PHL 241 or PHL 242 or PHL 243 or PHL 225 or PHL 226 or PHL 227 or PHL 200 or PHL 202.

PHL 455. Philosophy through Documentary. 3 sem. hrs.
This course aims to deepen philosophical understanding primarily through watching and discussing documentary films, supplemented with philosophical readings. The topics covered will vary with the films chosen by the instructor.

PHL 490. Special Topics in Philosophy. 1-3 sem. hr.
This course offers advanced study of a philosophical topic or movement that is not a part of the Department’s regular course offerings. At least two previous philosophy courses or permission from instructor required.

Physics (PH) Courses

PH 101. General Physics I. 4 sem. hrs.
Lecture and laboratory. An introductory course including classical mechanics and thermodynamics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

PH 102. General Physics II. 4 sem. hrs.
Lecture and laboratory. An introductory course including electricity and magnetism, optics, and modern physics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): PH 101 or PH 105 or PH 125.

PH 105. General Physics W/Calc I. 4 sem. hrs.
Lecture and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 125 or MATH 145.

PH 106. Generl Physics W/Calc II. 4 sem. hrs.
Lecture and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): MATH 126 or MATH 146; and PH 101 or PH 105 or PH 125.

PH 111. Intro Physics Seminar. 1 sem. hr.
Lecture series on current topics in Physics. Open to all undergraduates. A broad intro to exciting developments in modern physics at an intro level. Faculty will present recent developments including student suggestions.

PH 115. Des Ph Non-Science Maj. 4 sem. hrs.
Credit earned in this course may not be counted toward fulfillment of the requirements for the major or minor in physics. Credit will not be granted for both PH 101 and PH 115. Three lecture hours and one laboratory period. Demonstration lectures on the chief topics of classical and modern physics. Designed for non-science majors who want an introductory course with no math prerequisites.

PH 125. Honors Gen Ph W/Calculus. 4 sem. hrs.
Lecture, discussion, and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 125 or MATH 145.

PH 126. Honors Gen Ph W/Calculus. 4 sem. hrs.
Lecture, discussion, and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): MATH 126 or MATH 146; and PH 105 or PH 125.

PH 253. Intro Modern Physics. 3 sem. hrs.
Study of topics in modern physics, including special relativity, quantum physics, atomic and nuclear structure, and solid state physics.
Prerequisite(s): MATH 126 or MATH 146; and PH 102 or PH 106 or PH 126.

PH 255. Modern Physics Lab. 1 sem. hr.
Experimental work in the topics that form the subject matter of PH 253.
Prerequisite(s) with concurrency: PH 253.

PH 301. Mechanics I. 3 sem. hrs.
Vector analysis and treatment of Newtonian mechanics at the intermediate level.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 302. Intermediate Mechanics. 3 sem. hrs.
Treatment of Newtonian mechanics at the intermediate level, including central forces, lagrangians, normal modes, and waves. Designed for students planning graduate study in physics or astronomy.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 331. Elect & Magnetism I. 3 sem. hrs.
Electrostatics, Ampere's and Faraday's laws, vector potential, displacement current, and Maxwell's equations.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 332. Elect & Magnetism II. 3 sem. hrs.
Continuation of electricity and magnetism beginning with Maxwell’s equations.
Prerequisite(s): PH 331.

PH 354. Intermediate Modern Physics. 3 sem. hrs.
Continuation of PH 253. Applications of quantum mechanics, including lasers, semiconductors, particle physics, nanoscience, and other current topics.
Prerequisite(s): PH 253.

PH 405. Physics For Science Teachers. 3 sem. hrs.
Selected topics in contemporary physics for high-school and post-secondary science teachers.

PH 411. Biophysics. 3 sem. hrs.
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, bionanotechnology. Emphasis on systems that are best understood in physical and molecular detail.

PH 434. Digital Electronics. 3 sem. hrs.
Two laboratory periods. Theory and practical application of digital integrated circuits, including gates, flip-flops, counters, latches, and displays. Computer data acquisition and control using LabView and A/D and D/A fundamentals.
Prerequisite(s): PH 334.

PH 441. Quant Struct Matter I. 3 sem. hrs.
No graduate credit will be awarded for PH 441. Introduction to quantum mechanics, including solutions to the Schrodinger equation.
Prerequisite(s): PH 253 and PH 331 and PH 301 or PH 302.

PH 442. Quant Struct Matter II. 3 sem. hrs.
No graduate credit will be awarded for PH 442. Continuation of quantum mechanics with applications in atomic, molecular, solid state, and nuclear physics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 441.

PH 461. Nuclear Particle Physics. 3 sem. hrs.
Stable nuclei, isotopes, nuclidic masses, alpha decay, phase space, gamma ray transitions, Yukawa forces, isotopic spin, scattering, resonance behavior, the quark model, heavy flavors, Higgs bosons, and the electroweak theory.
Prerequisite(s): PH 441.

PH 471. Thermal Physics. 3 sem. hrs.
Introduction to thermal phenomena on a macroscopic and a statistical basis, and principles and laws governing them.
Prerequisite(s): MATH 227 or MATH 247 and PH 253.

PH 481. Solid State Physics. 3 sem. hrs.
Phenomenological treatment of mechanical, thermal, electrical, and magnetic properties of matter and fluorescence, phosphorescence, photo-conductivity, and work function; the free-electron model and the band approximation; structures of simple crystals.
Prerequisite(s): PH 441.

PH 482. Topics Physics & Astronomy. 1-3 sem. hr.
Topics in physics and astronomy not covered by existing courses. Repeat credit is allowed for different topics.

PH 490. Honors Seminar In Physics. 1 sem. hr.
A seminar course on current topics in physics and astronomy.

PH 491. Advanced Laboratory. 3 sem. hrs.
Two laboratory periods and 1 hour of seminar. Experimental work in modern physics at an advanced level. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 255.

PH 493. Intro To Research. 1-3 sem. hr.
Credit is by arrangement, but no graduate credit will be awarded for PH 493. Student performs research under supervision of a faculty member.

PH 495. Independent Study I. 1-3 sem. hr.

PH 496. Independent Study II. 1-3 sem. hr.

Polish (POL) Courses

POL 101. Elementary Polish. 3 sem. hrs.
Contemporary Polish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

Political Science (PSC) Courses

PSC 101. Intro American Politics. 3 sem. hrs.
Survey of the principles, political institutions, and practices of American national, state, and local politics.

PSC 102. America & The World. 3 sem. hrs.
Examination of the political factors external to the United States that affect the American political system. Attention is given to the nature of foreign policy, the processes and substance of American foreign policy, and the ways that actions by foreign governments affect the United States.

PSC 103. Intro Public Policy. 3 sem. hrs.
Survey of problems encountered by American governmental units in fields such as agriculture, welfare, education, health, and business regulation.

PSC 201. Scope Political Science. 3 sem. hrs.
Survey of the political processes and institutions of contemporary societies and an introduction to the concepts and concerns of political research.

PSC 202. Politcl Science Methods. 3 sem. hrs.
Introduction to the conduct of political inquiry and methods of political research.

PSC 203. Comparative Politics. 3 sem. hrs.
Theoretical approaches to the comparative study of national political systems.

PSC 204. International Relations. 3 sem. hrs.
Survey of the evolution of the modern state system and the basic forces in international relations.

PSC 205. Political Theory. 3 sem. hrs.
Survey of fundamental concepts in political theory such as liberty, equality, and authority.

PSC 206. Public Administration. 3 sem. hrs.
Study of the administrative principles and practices in the areas of organization, personnel management, budgeting, government regulation, and democratic controls.

PSC 211. State & Local Govt. 3 sem. hrs.
Study of the institutions and functions of American state and local governments and their relationship to the political process.

PSC 311. Pol Party & Elections. 3 sem. hrs.
Activities of parties and pressure groups in American politics. Attention is given to the social composition, organization, finance, and nominating processes of parties.

PSC 312. Amer Legislative Syst. 3 sem. hrs.
Examination of the constitutional and theoretical foundations of Congress and state legislatures, emphasizing problems of structure, procedure, leadership, and legislative reform.

PSC 313. The American Executive. 3 sem. hrs.
Examination of the role of the president, governors, and local executives in the American political system.

PSC 314. Amer Judicial System. 3 sem. hrs.
Introductory analysis of judicial organization, processes, and behavior, with emphasis on the institutional characteristics of the courts.

PSC 316. Southern Politics. 3 sem. hrs.
Examination of the party system of the Southern states in terms of its origin, nature, distribution of power, and impact on national politics.

PSC 318. Constitn Law Limits Gov Power. 3 sem. hrs.
Study of the constitutional foundations of federalism and the separation of powers, with emphasis on the role of the Supreme Court.
Prerequisite(s): PSC 101.

PSC 319. Con Law Civ Rts and Libs. 3 sem. hrs.
Study of the Constitution's protections for civil rights and civil liberties, and the Supreme Court's interpretations of them.

PSC 320. Special Studies In Psc. 1-3 sem. hr.
Supervised independent reading and research.

PSC 321. Special Topics In Psc. 3 sem. hrs.
Course content varies from offering to offering. May be repeated for a maximum of 12 hours, with permission of the department.

PSC 330. Democratization. 3 sem. hrs.
Examination of democratization processes and outcomes in different areas of the world, as well as success and failure in institutionalizing fully democratic systems.
Prerequisite(s): Sophomore standing or permission of the instructor.

PSC 332. Lat Am Political Syst. 3 sem. hrs.
Analysis of the contemporary distribution of political power in Latin America. Special attention is given to nation-state building, praetorianism, and revolution.

PSC 333. Soviet Post Sov Politics. 3 sem. hrs.
Study of institutions and processes in the USSR and the post-Soviet republics, with attention to concepts of authoritarianism, systemic change, and democratization.

PSC 334. Government Politics West Europ. 3 sem. hrs.
Analysis of the democracies of Western Europe. Attention is given to participation, societal cleavages, elections, parties, government institutions, policy making, and the European Union.

PSC 335. Soc Movements & Cont Politics. 3 sem. hrs.
Examination of social movements. Particular attention will be paid to the impact of movements on political processes.

PSC 342. For Pol Sov Un Suc State. 3 sem. hrs.
Examination of the influence of the Soviet Union in the evolution of the international system as well as the interests and strategies of Russia and other successor states.

PSC 343. US Relations with Latin Amer. 3 sem. hrs.
U.S. relations with Latin America since the end of the Cold War-democracy, drug trade, and immigration.

PSC 353. Modern Political Thought. 3 sem. hrs.
Key political theorists from the sixteenth to the nineteenth centuries. Assigned texts may vary, but typically include works by Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx, and Nietzsche. Topics include conceptions of a just society, the state, the value of political participation, liberty, and equality.

PSC 361. Fiscal Policy & Budget. 3 sem. hrs.
Study of governmental revenue and expenditure policies with emphasis on the budget as a method of administrative and fiscal control.

PSC 362. Organization Theory. 3 sem. hrs.
An examination of traditional and contemporary organizational theory and its application to public administration.

PSC 364. African Amer & Polit Sys. 3 sem. hrs.
A historical and contemporary assessment of the political, social and economic development of African-Americans in the American political system.

PSC 399. Internship In Psc. 3-6 sem. hrs.

PSC 411. Public Opinion. 3 sem. hrs.
The formation, distribution, structure, properties, and techniques of measuring public opinions in the United States.

PSC 413. Amer Foreign Policy. 3 sem. hrs.
Examination of the forces and processes affecting United States foreign relations. Attention is also given to the content and problems of contemporary American foreign policy.

PSC 422. Seminar Political Science. 3 sem. hrs.
May be repeated for a maximum of 6 hours. Selected problems in various areas in political science. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 433. Communism Europe 1945-89. 3 sem. hrs.
Examination of the interaction of Marxist theory and practice in various national settings. Attention is given to the differential evolution of parties and regimes and to reasons for the dissolution of communist systems.

PSC 434. Internatl Polit Econom. 3 sem. hrs.
The course deals with the international trade and finance regimes, foreign economic policy, transnational corporations in the world economy, North/South and East/West relations, and the implications of economic interdependence.

PSC 435. War And Peace. 3 sem. hrs.
Study of the causes of war at the individual, societal and international levels of analysis with particular emphasis on international relations research using the scientific method.
Prerequisite(s): PSC 204 or PSC 413.

PSC 436. Non-Communst East Europe. 3 sem. hrs.
An examination of the political issues, processes, and institutions, primarily in the formerly communist states of East-Central Europe.

PSC 437. Post Communism. 3 sem. hrs.
Examination of processes of democratization and reversion to authoritarianism in East Central Europe and Eurasia. Political, social, and economic alterations of communist arrangements are discussed. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 438. Govt and Politics of S. Asia. 3 sem. hrs.
Examination of South Asian states. Attention is given to the legacies of colonialism, political institutions, democratization, economic development, political conflict and regional security.
Prerequisite(s): PSC 203.

PSC 441. Terrorism. 3 sem. hrs.
Explores the definition and dynamics of domestic and international terrorism, terrorist ideas and terrorist organization, and the political problems of suppressing terrorism.

PSC 442. Internatl Conflict. 3 sem. hrs.
Examination of the various kinds of violent conflicts in which nation-states become involved.

PSC 443. Comparative Pub Policy. 3 sem. hrs.
Analysis of domestic policy in advanced industrialized democracies, looking at both policy process and policy substance. Attention will be given to the questions of how and why policies differ across countries, and how one might evaluate policy performance cross-nationally. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 444. International Organizations. 3 sem. hrs.
An examination of the essential structures and processes in international organizations, both governmental and nongovernmental, and their roles in the area of global security, economy, and social welfare. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 446. Political Economy of Security. 3 sem. hrs.
The course will cover a variety of topics that link security and political economy. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PSC 204.

PSC 448. Human Rights & Institutions. 3 sem. hrs.
This class examines how domestic and international institutions create incentives or constraints leading to human rights violations or protections from a social science perspective.

PSC 452. American Political Thought. 3 sem. hrs.
Investigates primary sources and secondary literature covering the origin and direction of the U.S. political ideology. Topics typically include liberalism, civic republicanism, and debates between contemporary scholars concerning American exceptionalism.
Prerequisite(s): PSC 205.

PSC 455. Political Traditions and Dilemmas. 3 sem. hrs.
This course is a sustained examination of the history of political thought in the western tradition coupled with philosophical investigation into contemporary issues.

PSC 462. Public Personnel Admin. 3 sem. hrs.
Study of the American public personnel system at the local, state, and national level. Emphasis is on such areas as the political activity of government employees, the application of the principle of equal opportunity and affirmative action, and the role of collective bargaining in government.

PSC 464. The Politics of Health Policy. 3 sem. hrs.
We examine health policy at all levels of government, with particular focus on the interdependence of the national, state, and local governments to provide health services. The political environment of health policymaking and implementation is explored. Health policies such as Medicaid, Medicare, and the Affordable Care Act will be examined, as well as other policies that impact health. We examine the policymaking process in general, applying health policy to the concepts and theories. We compare the US health care system with systems in other industrialized democracies.
Prerequisite(s): Approval of academic advisor and at least junior status.

Portuguese (POR) Courses

POR 101. Elementary Portuguese I. 3 sem. hrs.
Contemporary Portuguese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

POR 102. Elementary Portuguese II. 3 sem. hrs.
Contemporary Portuguese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): POR 101.

POR 201. Intermed Portuguese I. 3 sem. hrs.
Continuation of Portuguese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): POR 102.

POR 202. Intermed Portuguese II. 3 sem. hrs.
Continuation of POR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): POR 102.

Psychology (PY) Courses

PY 101. Intro To Psychology. 3 sem. hrs.
Basic principles of psychology.

PY 105. Honors Intro Psychology. 3 sem. hrs.
Honors section of PY 101.

PY 155. Creativity. 3 sem. hrs.
This course will introduce students to creativity and creative problem solving from both a theoretical and applied focus.

PY 207. Psychology Of Adjustment. 3 sem. hrs.
Basic principles of mental health and an understanding of the individual models of behavior.
Prerequisite(s): PY 101 or PY 105.

PY 211. Elem Statistical Methods. 3 sem. hrs.
Methods are presented that enable students to make inferences about a population from a knowledge of small samples. Offered each semester and in the summer session.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 and PY 101 or PY 105.

PY 228. Applied Psychology. 3 sem. hrs.
Examination of current uses of Psychology.
Prerequisite(s): PY 101 or PY 105.

PY 313. Sensation and Perception. 3 sem. hrs.
Physiological and psychophysical aspects of the senses.
Prerequisite(s): PY 101.

PY 321. Professional Issues Proseminar in Psychology. 1 sem. hr.
Course orients psychology majors to career opportunities for psychology majors terminating with a BA or BS, as well as those students moving on to post-graduate work.
Prerequisite(s): PY 101 or PY 105.

PY 352. Developmental Psych. 3 sem. hrs.
Physical, intellectual, emotional, and social development throughout the life span.
Prerequisite(s): PY 101 or PY 105.

PY 355. General Experimental Psychology. 3 sem. hrs.
Scientific methods applied to the problems of psychology.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 356.

PY 356. Research Laboratory. 2 sem. hrs.
Application of experimental and statistical techniques in a laboratory setting.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 355.

PY 358. Abnormal Psychology. 3 sem. hrs.
Etiology, symptomatology, and treatment of the major mental behavioral disorders.
Prerequisite(s): PY 101 or PY 105.

PY 361. Psychology Of Learning. 3 sem. hrs.
Theoretical and applied implications of principal findings in learning, memory, and cognition.
Prerequisite(s): PY 101 or PY 105.

PY 365. Psychology Of Aging. 3 sem. hrs.
The intellectual, social, cognitive, and physical development in adulthood with special emphasis on late adulthood.
Prerequisite(s): PY 101 or PY 105.

PY 368. Intro To Personality. 3 sem. hrs.
A study of theories that represent the psychoanalytic, neopsychoanalytic, trait, life span, humanistic, cognitive, behavioral and social-learning approaches to understanding human behavior. Clinical and experimental data are used to evaluate representative personality theories.
Prerequisite(s): PY 101 or PY 105.

PY 371. Psychology Of Gender. 3 sem. hrs.
Review of the contribution of psychological theories and research to the understanding of sex differences in general and to women's roles in particular.
Prerequisite(s): PY 101 or PY 105.

PY 372. Social Psychology. 3 sem. hrs.
Major aspects of social psychology, including aggression, altruism, attitude change, interpersonal relations, prejudice, leadership, and group dynamics.
Prerequisite(s): PY 101 or PY 105.

PY 375. Special Topics In Psychology. 3 sem. hrs.
Courses devoted to topics not currently covered in the Psychology curriculum will be offered under this title.
Prerequisite(s): PY 101 or PY 105.

PY 377. Psych Law And Justice. 3 sem. hrs.
Psychological interpretations of criminality, treatment of offenders, and the roles of psychologists and psychological issues in the justice system.
Prerequisite(s): PY 101 or PY 105.

PY 378. Junior Honors Seminar. 3 sem. hrs.
The course is the first semester of a four-semester honors sequence. Exposure to research methods and opportunites for research within the Department of Psychology.
Prerequisite(s): PY 355
Prerequisite(s) with concurrency: PY 355.

PY 379. Junior Honors Seminar. 3 sem. hrs.
The course is the second semester of a four-semester honors sequence. Preparation of a research proposal and approval of thesis committee is required.
Prerequisite(s): PY 378.

PY 413. Physiological Psych. 3 sem. hrs.
Bodily structures (nervous, muscular, and glandular) underlying behavior.
Prerequisite(s): PY 355.

PY 451. Undergraduate Research. 1-3 sem. hr.
Individual research projects. A maximum of 6 credit hours may be earned in PY 451.
Prerequisite(s): PY 355.

PY 461. Child Psychology. 3 sem. hrs.
Observational and research procedures with infants and young children, with emphasis on operant learning and socialization processes. Suggested for undergraduate seniors.
Prerequisite(s): PY 355.

PY 470. Intro Cognitive Psychlgy. 3 sem. hrs.
Contemporary approaches to cognitive psychology, including topics such as attention and memory.
Prerequisite(s): PY 355.

PY 471. History Systems In Py. 3 sem. hrs.
Systematic points of view in psychology, with a consideration of their historical origins and significance for modern thought.
Prerequisite(s): PY 355.

PY 478. Senior Honors Seminar. 3 sem. hrs.
The course is the third semester of a four-semester honors sequence. Implementation of an approved research proposal.
Prerequisite(s): PY 379.

PY 479. Senior Honors Seminar. 3 sem. hrs.
The course is the final semester of a four-semester honors sequence. Preparation and defense of senior honors thesis.
Prerequisite(s): PY 478.

PY 481. Readings In Psychology. 1-3 sem. hr.
Selected supervised readings. May be repeated for a maximum of 6 hours.
Prerequisite(s): PY 105 or PY 101 or PY 355 or PY 356.

PY 491. Seminar In Psychology. 3 sem. hrs.
Thorough examination of a selected contemporary psychological area. Different topics are offered each semester; descriptions are available at registration. Writing proficiency within this discipline is required for a passing grade in this course. Offered each semester and in the summer session. May be repeated for a maximum of 6 hours.
Prerequisite(s): PY 355 and PY 356.

PY 495. Teaching Internship. 3 sem. hrs.
Supervised experience and training in teaching, course administration, etc., as additional preparation for students planning to pursue graduate study in psychology.

Religious Studies (REL) Courses

REL 100. Intro To Religious Studies. 3 sem. hrs.
Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures. This course is required of all majors and minors.

REL 101. West Approach Prob Evil. 3 sem. hrs.

REL 102. Intro to Religions of the World. 3 sem. hrs.
This comparative study of religions highlights complexity in world religions. Topics, such as texts, practices, and deities, organize the study of different pairs of religions.

REL 105. Honors Intro Relig Stdy. 3 sem. hrs.
Honors version of REL 100.

REL 110. Intro To The Hebrew Bible. 3 sem. hrs.
Introduction to the books of the Hebrew Bible in their historical setting, with emphasis on textual analysis and on literary forms and their function and use in the past and present.

REL 112. Intro To New Testament. 3 sem. hrs.
Introduction to the Hellenistic world of early Christianity, examining the early traditions about Jesus that were organized into the Gospels and the letters of Paul.

REL 124. Religion & Film in America. 3 sem. hrs.
Uses film as the way into understanding the religious scene in America's broad set of ideas, symbols, social movements, and institutions that affect and are affected by the wider American culture.

REL 220. Survey Of Asian Religion. 3 sem. hrs.
Introductory survey of the major religious traditions of Asia, including Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

REL 223. Holocaust Historical Perspecti. 3 sem. hrs.
Examination of this event, and scholarship on it, from various historical and critical perspectives.

REL 224. Judaism. 3 sem. hrs.
A study of some of the leading schools and interpreters of Judaism and a review of modern developments including the Holocaust and the state of Israel.

REL 226. African Diaspora Religions. 3 sem. hrs.
Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African-American religions in North America), focusing on the interplay between religion, culture and politics.

REL 228. Hy Of Christian Thought. 3 sem. hrs.
The major theological orientations that have shaped Christianity in various social and historical contexts.

REL 231. Religious Existentialism. 3 sem. hrs.
Examines answers offered by such writers as Kierkegaard, Dostoevsky, Buber, Weisel and Tillich, to such questions as: What is the meaning of existence? What is the meaning of my existence? What does it mean to exist authentically in religious terms?

REL 234. Women And Religion. 3 sem. hrs.
The role and place of women in several religious traditions, ancient and modern.

REL 235. Native American Relig. 3 sem. hrs.
Surveys the histories, beliefs, and practices of Native American religions as found in various geographical regions throughout the Americas (e.g., the Aztecs, Lakota, Muskogee, Cree, and Hopi).

REL 236. Islam. 3 sem. hrs.
An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.

REL 237. Self Society & Religions. 3 sem. hrs.
A survey of psychological and social theories used to study religion, drawing on different cultural and historical data of relevance to the approaches surveyed.

REL 238. Philosophies Of Judaism. 3 sem. hrs.
Survey of major philosophical formulations of the nature and role of Jews and Judaism, written by select Jewish thinkers.

REL 240. Apocalypse In Contemporary Fil. 3 sem. hrs.
Examines contemporary portrayals of the end times in popular films.

REL 241. Historical Overview of Religions in America. 3 sem. hrs.
This course offers a survey of religious themes and movements in American culture from the period before European colonization to the present. reactivate.

REL 245. Historical Overview of Religions in America. 3 sem. hrs.
This Honors course offers a survey of religious themes and movements in American culture from the period before European colonization to the present.

REL 311. English Bible As Literature. 3 sem. hrs.
Analytical and critical study of a number of books of the Bible; each book is examined and evaluated as an example of a particular literary genre. Writing proficiency within this discipline is required for a passing grade in this course.

REL 321. Rel & Ident in South Asia. 3 sem. hrs.
Investigates the intersections of various social divisions and identities with religious labels and practices by analyzing case studies from South Asia.

REL 332. Contemp Jewish Thought. 3 sem. hrs.
Examination and analysis of modern Jewish reformulations of divinity, revelation, redemption, election, etc., in critical contrast to classical Jewish and Greek traditions.

REL 340. Nietzsche and Religion. 3 sem. hrs.
Examines the major writings on religion of Friedrich Nietzsche (1844-1900), with special attention to the relationship between religion, rhetoric, language, culture, and power.

REL 341. Theories of Myth. 3 sem. hrs.
Examination of the history of differing theories of myth, conceived as a sub-type of narrative.

REL 347. Jewish-Christian Relations. 3 sem. hrs.
Critical examination of the 2,000-year-old relationship focusing on areas of commonality and difference.

REL 360. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 361. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 370. Adv Study Religion In Culture. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 371. Adv St American Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 372. Adv Stdy Mid East European Rel. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of May be repeated for a maximum of 9 hours for differing topics.

REL 373. Adv Stud Asian Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 410. Religion of Genocide. 3 sem. hrs.
Explores the phenomenon known as genocide by examining its relationship to the religion in both its institutional and theological frameworks.

REL 415. Religion in the American South. 3 sem. hrs.
This course will look at the roles and implications of myths and rituals in the American South, using the UA campus as its own case study and talking about how notions of "the past" come to be invented in different ways for different social purposes through memorials and monuments. Along with learning about specific religious groups and practices that find their homes in the region, students will tackle analytical classifications and contestations of "the South" as an identifiable geographical and cultural space. *Because the course carries the Core "W" designation, writing proficiency is required for a passing grade. An important component of the seminar is the mastering the steps in the writing process, which we will be utilizing throughout the semester. These steps include brainstorming, drafting, peer editing, and revising.
Prerequisite(s): This course is limited to 16 participants. Prerequisites include two courses in Religious Studies or permission of the instructor. Religious Studies 415 will be conducted as an advanced undergraduate seminar, so writing proficiency is required and is a necessary component of successful completion of the course.

REL 419. Myth Ritual And Magic. 3 sem. hrs.
Examination of the theories and methods used to study the relations between religious narrative and behavioral systems. Writing proficiency within this discipline is required for a passing grade in this course.

REL 420. Gospel Of Mark. 3 sem. hrs.
Investigates the Gospel of Mark through the disciplines of contemporary biblical, literary, and cultural criticism. Writing proficiency is required for a passing grade in this course.

REL 430. Religion and Literature. 3 sem. hrs.
This course will examine religion and literature in light of what both discourses rely heavily on: namely, canon formation. From a critical starting point that views these two categories as socio-cultural products, we will discuss problems of authorship, readership, and canonicity with a particular eye toward the questions and implications of decisions that are made regarding what "counts" in literary or religious traditions. To that end, we will read novels whose status in a literary and/or cultural canon was questionable and contested for one reason or another. In some cases, the texts prompted obscenity trials; in others, the texts were published posthumously or with some debate over authorship; and in others, the texts blur boundaries of genre. In every case, however, the legitimacy or importance of the narrative is subject to careful and often controversial legislation. We will read several novels but will also trace critical interventions into these issues of authority, voice, and identity, with readings from thinkers such as Roland Barthes, Michel Foucault, Gayatri Spivak, John Guillory, and Toril Moi. Writing proficiency within this discipline is required for a passing grade in this course.

REL 440. Theories of Religion. 3 sem. hrs.
Examines classic and contemporary theories of religion such as functionalism, structuralism, Marxism, and psychoanalysis. Emphasis may vary with each offering.

REL 460. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 461. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 480. Seminar Religion In Cullture. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 483. Seminar Asian Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 490. Senior Capstone Seminar. 3 sem. hrs.
A seminar offered spring semester of each year for seniors pursuing a major or minor in religious studies or minor in Judaic studies. The professor and subject of the seminar rotate through the four areas of the curriculum. Required of all majors and minors in the Department. May be repeated for a maximum of 9 hours for differing topics.

Russian (RUS) Courses

RUS 101. Elementary Russian I. 4 sem. hrs.
This course introduces students to the basics of Russian: alphabet, pronunciation, elementary vocabulary, and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.

RUS 102. Elementary Russian II. 4 sem. hrs.
This course builds upon the foundation established in RUS 101and continues with the acquisition of elementary vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.
Prerequisite(s): RUS 101.

RUS 201. Intermediate Russian I. 3 sem. hrs.
This course builds upon the foundation established in RUS 101and RUS 102 and continues with the acquisition of intermediate level vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course introduces students to short literary texts.
Prerequisite(s): RUS 102 or RUS 111.

RUS 202. Intermediate Russian II. 3 sem. hrs.
This course builds upon the foundation established in RUS 101, RUS 102, and RUS 201 and completes the acquisition of basic vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course continues the use of short literary texts and introduces students to higher-style literary forms.
Prerequisite(s): RUS 201.

RUS 211. Study Tour Russia. 3 sem. hrs.
A tour of Moscow, St. Petersburg, and other cities of the former Soviet Union. Focus is on Russia's art and architecture and on the diverse peoples of the former U.S.S.R. and their way of life. Students who have studied Russian have an opportunity to use it.

RUS 223. Russian Literature in Translation I. 3 sem. hrs.
Survey of Russian literature including the Golden Age until the 1880s.Authors read include Pushkin, Gogol, Lermontov, Dostoevsky, Turgenev and Tolstoy. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 224. Russian Literature in Translation II. 3 sem. hrs.
Survey of Russian literature from the 1880s until the present. Authors read include Bunin, Babel, Bulgakov, Zamyatin, Pasternak and Solzhenitsyn. No knowledge of Russian is required. Usually offered in the spring semester.

RUS 229. Russian Drama. 3 sem. hrs.
Introduction to the classics of Russian drama. No knowledge of Russian is required.

RUS 251. Russian Culture. 3 sem. hrs.
Topics may include geography, law, science, agriculture, literature, sports, cinema, peasants, icons, the Russian Orthodox Church, Ukrainian Easter egg art and other folk art and crafts, foreign policy, food and cooking, entertainment, etc. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 252. Russian Folklore. 3 sem. hrs.
Survey of the various genres of Russian folklore including the folk epics, historical songs, fairy tales, and proverbs as well as an introduction to various folk beliefs. No knowledge of Russian is required.

RUS 309. Adv Russian Converstn I. 3 sem. hrs.
Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.
Prerequisite(s): RUS 202.

RUS 310. Adv Russian Converstn II. 3 sem. hrs.
Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.

RUS 325. Dostoevsky. 3 sem. hrs.
The life and works of Fyodor Dostoevsky. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

RUS 326. Tolstoy. 3 sem. hrs.
The life and works of Leo Tolstoy. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

RUS 327. Chekhov. 3 sem. hrs.
The life and works of Anton Chekhov. No knowledge of Russian is required.

RUS 328. Nabokov. 3 sem. hrs.
Introduction to the life and major works of Nabokov. Writing proficiency is required. No knowledge of Russion required.

RUS 329. Solzhenitsyn. 3 sem. hrs.
This course will cover the life and major works of Alexander Solzhenitsyn. Writing proficiency within this discipline is required for a passing grade in this course. No knowledge of Russian is required.

RUS 351. Russia to 1894. 3 sem. hrs.
Russia to 1894.

RUS 352. Russia and SU since 1994. 3 sem. hrs.
Russia and the Soviet Union since 1894.

RUS 361. Adv Rus Grammar Comp I. 3 sem. hrs.
The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.
Prerequisite(s): RUS 202.

RUS 362. Adv Rus Grammar Comp II. 3 sem. hrs.
The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.
Prerequisite(s): RUS 361.

RUS 401. Directed Readings. 1-3 sem. hr.

RUS 402. Directed Readings. 1-3 sem. hr.

RUS 425. Readings In Russian Press. 3 sem. hrs.
Topics of current interest, such as the social sciences, the economy, the environment, medicine and health, and the arts. Development of passive vocabulary.
Prerequisite(s): RUS 310 or RUS 362.

RUS 426. Readings in Russian History. 3 sem. hrs.
This course introduces students to advanced texts in Russian thematically focused on Russian history.
Prerequisite(s): RUS 101 and RUS 102 and RUS 201 and RUS 202 and RUS 361 and RUS 362.

RUS 427. Business Russian. 3 sem. hrs.
Acquisition of business Russian used in commercial transactions. Emphasis is on business letters and business conversation.
Prerequisite(s): RUS 310 or RUS 362.

RUS 440. Russian Phonetics. 3 sem. hrs.
Linguistic analysis of the Russian sound system in conjunction with practice in Russian pronunciation.

Sanskrit (SAN) Courses

SAN 101. Elementary Sanskrit. 3 sem. hrs.
Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

SAN 102. Elementary Sanskrit. 3 sem. hrs.
Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook and listen to assigned audio materials (CDs, or computer sound files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

Sociology (SOC) Courses

SOC 101. Intro To Sociology. 3 sem. hrs.
Introduction to the scientific study of human social behavior.

SOC 202. Analysis Social Problems. 3 sem. hrs.
Study of contemporary social problems, including definition, description, and analysis. Emphasis is on social change perspectives and cultural complexity.

SOC 205. Social Psychology. 3 sem. hrs.
Not open to students who have earned credit in PY 372. Study of the interrelationships between the individual and the group. Includes perception, cognition, attribution, attitudes, helping behavior, aggression, personal relationships, prejudice, and gender in social life. Also includes aspects of applied social psychology.

SOC 210. Juvenile Delinquency. 3 sem. hrs.
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.
Prerequisite(s): SOC 101.

SOC 300. Research Methods. 3 sem. hrs.
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problems of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): SOC 101.

SOC 301. Social Statistics. 3 sem. hrs.
Elementary statistical techniques applied to sociological data; tables and graphs, central tendency and dispersion, probability and sampling, tests of significance, and measures of association.
Prerequisite(s): SOC 101 and MATH 110 or MATH 112.

SOC 302. Sociological Theory. 3 sem. hrs.
The course will provide a review of the major systems of thought about society. Special emphasis is given to historical context and philosophical background as they relate to the development of sociological theories. Students will be introduced to view points and idea about how society functions, the role of conflict in society and the forces of social change.

SOC 315. Race And Ethnic Relations. 3 sem. hrs.
Analysis of American social structure, race and ethnic relations, and demographic and institutional trends; studies of racial and ethnic issues.
Prerequisite(s): SOC 101.

SOC 350. Criminology. 3 sem. hrs.
Theories of criminality, types of delinquent and criminal behavior, crime causation, crime control by police, and the criminal courts.
Prerequisite(s): SOC 101.

SOC 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.
Prerequisite(s): SOC 101.

SOC 360. Sociology of HIV/AIDS. 3 sem. hrs.
Study of the social dimensions of HIV/AIDS. Discussions cover how HIV/AIDS is socially constructed in terms of gender, sexualities, race/ethnicity and social class. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 390. Selected Topics In Soc. 3 sem. hrs.
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; Latin American life; small-group dynamics; environmental sociology; medical sociology.
Prerequisite(s): SOC 101.

SOC 404. Health and Crime. 3 sem. hrs.
Revise title to Health and Society Do not cross list with CJ404.

SOC 405. Gender & Society. 3 sem. hrs.
A sociological approach to the study of women & men, focusing on: the social construction of genders in institutions and in everyday life, feminist theories of masculinity, gender inequality, and social change.
Prerequisite(s): SOC 101.

SOC 444. Environmental Sociology. 3 sem. hrs.
Sociological analysis of environmental issues including the background of environmental issues, population, planning, limits to growth, food and energy resources, and social impacts of environmental alterations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 450. Sociology Of Law. 3 sem. hrs.
Study of social origin and consequences of law and legal process; analysis of social factors that determine legal outcomes.
Prerequisite(s): SOC 101.

SOC 460. Body Politics. 3 sem. hrs.
Study of how human bodies are politicized in modern society. Discussions cover how the human body is politically constructed according to gender, race/ethnicity, occupation and social class. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 490. Seminar In Sociology. 1-3 sem. hr.
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; advanced deviant behavior; juvenile delinquent behavior; Latin American life; small-group dynamics; environmental sociology; medical sociology.
Prerequisite(s): SOC 101.

SOC 499. Ind Study in Sociology. 1-6 sem. hr.
1-6 hour independent study course allowing students to conduct sociological research under faculty supervision.
Prerequisite(s): SOC 101.

Spanish (SP) Courses

SP 101. Introductory Spanish I. 4 sem. hrs.
Five hours of instruction per week. The course is the first semester of college-level study of Spanish. Offered each year.

SP 102. Introductory Spanish II. 4 sem. hrs.
Continuation of written and oral skills in Spanish. Five hours of instruction per week. The course is the second semester of college-level study of Spanish. Conducted in Spanish. Offered each year.
Prerequisite(s): SP 101.

SP 103. Intensive Review Intro Spanish. 4 sem. hrs.
Five hours of instruction per week. Intensive review and accelerated study of Spanish language at the first- and second-semester college level. Conducted in Spanish. Offered each year.

SP 104. Spanish for Engineering. 6 sem. hrs.
An introductory course for Spanish language with an emphasis on vocabulary for Engineers.

SP 201. Intermediate Spanish. 3 sem. hrs.
Review and development of grammar and syntax; development of speaking, reading, and writing skills.
Prerequisite(s): SP 102 or SP 103.

SP 202. Intermediate Spanish. 3 sem. hrs.
Review and development of grammar and syntax; development of speaking, reading, and writing skills.
Prerequisite(s): SP 201 or placement.

SP 205. Spanish House I. 1.5 sem. hr.
One-Semester residence in Spanish House. 1.5 crs.
Prerequisite(s): Must have faculty director's permission.

SP 206. Spanish House II. 1.5 sem. hr.
One-semester residence in Spanish house for 1.5hrs crs.
Prerequisite(s): pre-req must have faculty director's permission.

SP 352. Spanish Conversation. 3 sem. hrs.

SP 353. Spanish Conversation. 3 sem. hrs.
The course is also offered in Spain as SP 352; it is not open to native and heritage speakers. Offered each semester. This is a required course for majors/minors.
Prerequisite(s): SP 202 or placement.

SP 354. Adv Grammar & Compositn. 3 sem. hrs.

SP 356. Adv Grammar And Compos. 3 sem. hrs.
The course is also offered in Spain as SP 354. Review of Spanish grammar with emphasis on written expression in Spanish. This is a required course for majors/minors. Offered each semester.
Prerequisite(s): SP 202 or placement.

SP 360. Commercial Spanish. 3 sem. hrs.
Spanish business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP 361. Intro Romance Linguistic. 3 sem. hrs.
Credit for this course is not applicable toward the requirements of the Spanish major or minor.

SP 363. Spanish Civilization. 3 sem. hrs.

SP 364. Spanish Civilization. 3 sem. hrs.
The course is also offered in Spain as SP 363. Study of Spanish artistic heritage and social and political institutions. Offered in the fall semester.

SP 366. Spanish-American Civ. 3 sem. hrs.
Study of the development of Spanish-American civilization from pre-Colombian times to the present. Offered in the spring semester.

SP 367. Technical Writing. 3 sem. hrs.
This course will teach students how to understand and write documents in technical areas usually not taught in conventional language courses. Emphasis on written expression. Students will practice and improve knowledge of spanish grammar and syntax.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP 371. Survey Of Spanish Lit. 3 sem. hrs.
Study of major works in Spanish literature from the Middle Ages through the 18th century. SP 371 and SP 372 offered in alternate semesters.

SP 372. Survey Of Spanish Lit. 3 sem. hrs.
Spanish literature from the 19th century to the present. Readings from important authors, lectures, reports, and analysis. SP 372 and SP 371 offered in alternate semesters.

SP 375. Masterpc Sp-Amer Lit I. 3 sem. hrs.
Study of selected great works in the development of Spanish-American literature from the colonial period to modernism. Offered in fall semester.
Prerequisite(s): SP 353, SP 356, and SP 366 (or SP 364); or permission of the instructor.

SP 376. Masterpc Sp-Amer Lit II. 3 sem. hrs.
Study of selected great works of Spanish-American literature from modernism to the present. Offered in the spring semester.
Prerequisite(s): SP 353, SP 356, and SP 366, (or SP 364); or permission of the instructor.

SP 390. Special Topics. 1-6 sem. hr.
Special studies on topics related to Spanish language, literature, and culture. The content of the course varies from semester to semester. A maximum of 6 credit hours may be earned in SP 390.
Prerequisite(s): SP 353 and SP 356; and (SP 364 or SP 366).

SP 426. 20th Cent Spanish Lit II. 3 sem. hrs.
Reading and discussion of complete texts representative of the literary movements of the period; lectures and reports. Offered in alternate years.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino Literature.

SP 483. Intro to Spanish Linguistics. 3 sem. hrs.
In the Introduction to Spanish Linguistics we study the Spanish language using linguistic analysis in order to discover its underlying structure, which may be taken for granted when simply speaking the language. We examine several topics, including the sound system of the language (phonology), how words are formed (morphology), how phrases and sentences are created (syntax), and how words develop different meanings (semantics and pragmatics). In addition, we discuss other areas such as the evolution of Spanish from Latin, and language variation and change (dialectology and sociolinguistics). Taught in Spanish.
Prerequisite(s): SP 353 and SP 356 or permission of instructor.

SP 484. Phonetics And Pronunciation. 3 sem. hrs.
Introduction to Spanish phonetics with emphasis on the development of correct pronunciation and basic phonetic transcription.
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino literature.

SP 485. Open Topics in Linguistics. 3 sem. hrs.
Topics vary. Sample topic History of the Spanish Language.: This course provides students with an examination of the evolution of Spanish from Latin to modern Spanish. Both internal and external factors will be addressed, including sound change, word formation, syntax and vocabulary, as well as influence from other languages. In doing so, students will be able to observe how variation in earlier forms of Spanish has lead to the creation of different dialects found in modern Spanish. Students will also have the opportunity to analyze medieval and classical Spanish texts in order to trace the development of Spanish along different levels of linguistic analysis. The role of orthography at the various stages of evolution will also be addressed. Taught in Spanish.
Prerequisite(s): SP 353 and SP 356 or permission of instructor.

SP 488. Open Topics Sp Penin Lit. 3 sem. hrs.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 489. Open Topics Sp-Amer Lit. 3 sem. hrs.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 490. Open Topics. 1-6 sem. hr.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 491. Cervantes. 3 sem. hrs.
In-depth study of Don Quixote. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

Swahili (SWA) Courses

SWA 101. Elementary Swahili. 3 sem. hrs.
Contemporary Swahili: speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

SWA 102. Elementary Swahili. 3 sem. hrs.
Contemporary Swahili: speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): SWA 101.

SWA 201. Intermediate Swahili I. 3 sem. hrs.
Continuation of Swahili language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102.

SWA 202. Intermediate Swahili II. 3 sem. hrs.
Continuation of SWA 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102.

Swedish (SWED) Courses

SWED 101. Elementary Swedish. 3 sem. hrs.
Contemporary Swedish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

SWED 102. Elementary Swedish. 3 sem. hrs.
Contemporary Swedish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

SWED 201. Intermediate Swedish. 3 sem. hrs.
Continuation of Swedish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): SWED 102.

Thai (THAI) Courses

THAI 101. Elementary Thai. 3 sem. hrs.
Contemporary Thai: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

THAI 102. Elementary Thai. 3 sem. hrs.
Contemporary Thai: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): THAI 101.

THAI 201. Intermediate Thai. 3 sem. hrs.
Continuation of Thai language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): THAI 102.

Theatre (TH) Courses

TH 113. Voice And Diction. 3 sem. hrs.
Credit for this course will not be awarded to students majoring or minoring in theatre. A beginning course designed to assist the student in improving use of his or her voice and speech. Offered each semester and in the summer session.

TH 114. Intro To The Theatre. 3 sem. hrs.
Introduction to the theatre through the study of plays, stage histories, practitioners, elements of theatre and production techniques.***This course does not count toward the theatre major.

TH 115. Beginning Acting. 3 sem. hrs.
Credit for this course will not be awarded to students majoring or minoring in theatre. Training in the basic elements of the actor's craft. Additional hours in related theatre activities may be required.

TH 120. Principles Of Stage Design. 3 sem. hrs.
An introduction to the various areas of theatrical design and technology, including but not limited to scenery, costumes, lighting, sound, and makeup.

TH 140. Stage Movement I. 3 sem. hrs.
Course in the use of the actor's body as an expressive tool; body/spatial/sensory awareness; structure and alignment; and stage presence and gesture.

TH 141. Acting I. 3 sem. hrs.
The course is designed to introduce the beginning student to the art and craft of acting.

TH 165. Musicianship Theatre Perform I. 3 sem. hrs.
A course in basic musical theatre skills, including sight-singing, playing keyboard instruments, singing in harmony, phonetic transcription, and audition techniques. May be repeated for a maximum of 6 hours.

TH 166. Musicianship Theatre Perf II. 3 sem. hrs.
A continuation of TH 165, featuring more advanced work in sight-singing, keyboard, ensemble singing, and audition techniques. May be repeated for a maximum of 6 hours.
Prerequisite(s): TH 165.

TH 175. The Singing Voice. 2 sem. hrs.
The class is designed to introduce students to basic concepts of vocal technique and musicianship through practical application.

TH 220. Fundamental Stage Scenery. 3 sem. hrs.
Required lab. Survey of the techniques for building, rigging, and painting scenery for various forms of production. Emphasis is on scenery for the stage.

TH 230. Stage Makeup. 2 sem. hrs.
Required lab. Principles of and practical work in all types of stage makeup.

TH 231. Costume Construction I. 3 sem. hrs.
A studio course in basic patterning, cutting, and construction techniques. Additional hours in related theatre activities may be required.

TH 233. Beginning Costume Design. 3 sem. hrs.
An introductory course implementing the principles of design as related to costumes.
Prerequisite(s): TH 120.

TH 240. Stage Movement II. 3 sem. hrs.
Prerequisite(s): TH 140.

TH 241. Beg Voice Speech Perform. 3 sem. hrs.
A beginning course in the proper use of the vocal instrument for performance.

TH 242. Acting II Intro to Scene Stud. 3 sem. hrs.
Majors- only advanced acting course. An in depth study of various techniques used to explore an acting scene in performance: advanced personalization, intense experiential analysis of emotional and intellectual transitions in a text, and specific physical and musical improvisations, which combine to form the basis of a "Simulated Experience" of the character. Students will explore works from the Realistic Period as well as modern texts, in order to develop a personal technique applicable to any material the actor might encounter, both classical and contemporary.
Prerequisite(s): TH 141.

TH 245. Tch Theatre: Performance. 3 sem. hrs.
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include acting, directing, choosing plays for production, and rehearsal techniques.

TH 246. Tch Theatre: Play Prodcn. 3 sem. hrs.
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include speech, dramatic literature, children's drama, costuming, scenery and playwriting.

TH 290. Theatre Practicum. 1 sem. hr.
Participation in University Theatre productions. Assignments in scenery, lighting, properties, sound, costuming, publicity, rehearsal and performance, etc. (Maximum 2 hours).

TH 291. Practicum I. 1 sem. hr.
Participation in University Theatre productions through a rotation of assignments in the scene shop, costume shop, box office, deck crews, and performance.

TH 320. Intermed Tech Productn. 3 sem. hrs.
Study of the planning and execution of scenery through analysis of production-related problems dealing with the technical design of rigging and construction.
Prerequisite(s): TH 220.

TH 322. Fund Of Stage Lighting. 3 sem. hrs.
Required lab. Survey of materials and techniques employed in executing stage lighting for both the legitimate stage and television.
Prerequisite(s): TH 120 or TH 220.

TH 324. Lighting and Sound for Dance. 3 sem. hrs.
A technical production course specifically for dance majors covering the practical aspects of theatre technology.

TH 351. American Music Theatre History. 3 sem. hrs.
This course provides you with a review of the historical genres, circumstances and catalogue of material that developed the american musical theatre from its ministrel beginnings to the multi-million dollar spectacles of today.

TH 361. Beginning Directing. 3 sem. hrs.
Study of the principles and techniques of directing plays. Additional hours of related theatre activities are required.
Prerequisite(s): TH 141 and TH 120 or TH 220.

TH 365. Stage Management. 3 sem. hrs.
The study of the professional stage manager's process: preparing and running rehearsal and performance, conflict resolution, and general responsibilities as defined by Actor's Equity Association. Required production element outside of class.
Prerequisite(s): TH 141 and TH 120 or TH 220.

TH 375. The Singing Voice - Intermediate. 2 sem. hrs.
This class is designed to further students' understanding of basic concepts of vocal technique and musicianship through practical application. Students will discuss various topics related to singing and will further explore those topics through performance. Students will give four solo performances over the course of the semester per the schedule listed below.
Prerequisite(s): TH 175.

TH 390. Theatre Practicum II. 1 sem. hr.
Participation in University theatre productions. Assignments in scenery, costumes, lighting, sound, management, rehearsal, performance, etc.
Prerequisite(s): TH 290.

TH 391. Practicum II. 1 sem. hr.
Participation in University Theatre production in the area[s] of your preference (availability permitting). Opportunities in scenery, lighting, properties, sound, costuming, publicity, musical theatre, stage management, and performance, etc.
Prerequisite(s): TH 291.

TH 415. Properties Construction. 3 sem. hrs.
A studio course introducing the multitude of techniques used by the props artisan to create hand props, furniture, and other set dressings.
Prerequisite(s): TH 120 or TH 220.

TH 420. Technical Direction. 3 sem. hrs.
This course will provide students with an overview of the technical design, construction techniques, and the administrative and management functions that are a part of the field of technical direction.
Prerequisite(s): TH 220 and TH 423.

TH 421. Period Decor. 3 sem. hrs.
Survey of period architecture and ornament as they apply in research for productions.
Prerequisite(s): TH 120 or TH 220.

TH 422. Scene Design. 3 sem. hrs.
A studio course exploring the process and techniques of scene design. Students will design three to five plays.
Prerequisite(s): TH 120 or TH 220 or TH 423.

TH 423. Drafting For Theatre. 3 sem. hrs.
A studio course exploring traditional and computer based techniques of technical drafting as applied to the theatre. Skills learned will include orthographic and isometric projections, ground plans, sections, perspective drawing, and layout.
Prerequisite(s): TH 120 or TH 220.

TH 424. Adv Scene Design. 3 sem. hrs.
A studio course in drafting, drawing, and painting techniques for the stage designer.
Prerequisite(s): TH 120 or TH 220.

TH 425. Scene Painting. 3 sem. hrs.
A studio course in the materials and techniques for painting stage scenery and properties. A materials fee is required.
Prerequisite(s): TH 120 or TH 220.

TH 426. Sound Prod Tech Th Dn. 3 sem. hrs.
The course provides the student with a working knowledge of sound production. It emphasizes the creation of sound tapes for theatre and dance, and the setup and maintenance of sound reproduction and modification equipment.

TH 427. Computer Graphics For Theatre. 3 sem. hrs.
A studio course exploring the creation of technical drawings through Computer Aided Drafting. Skills learned will include commands for drawing, layout of information, and other CAD techniques.
Prerequisite(s): TH 120 or TH 220.

TH 430. Hy Costume For Stage. 3 sem. hrs.
Historical study of dress in relation to costuming for the stage.
Prerequisite(s): TH 120 or TH 220.

TH 432. Costume Constructn II. 3 sem. hrs.
A studio course in advanced costume construction techniques and/or costume crafts. Topics may include tailoring, corsetry, millinery, armor, wigs, masks, and jewelry. May be repeated for credit.

TH 433. Costume Design I. 3 sem. hrs.
A studio course in costume design, principles, and presentation.
Prerequisite(s): TH 120.

TH 434. Costume Design II. 3 sem. hrs.
Continued, advanced study of the material in TH 433. Projects address specific problems in design.
Prerequisite(s): TH 433.

TH 435. Presentation for Designers. 3 sem. hrs.
Preparation of "hard," digital and web-based portfolio presentations. Also included is information on presentation in a professional setting, such as a job interview or adjudication.

TH 436. Fabric Modification. 3 sem. hrs.
Course Description: This course explores and introduces a variety of techniques in which to modify the original appearance and/or intent of fibres and fabrics. This is done through the use of various dyes/techniques, surface treatment, use of non-traditional materials and restructuring of fabrics.

TH 437. Drawing for Stage Designs. 3 sem. hrs.

TH 438. Tailoring Techniques for Thtre. 3 sem. hrs.
Prerequisite(s): TH 432 or TH 231.

TH 439. Advanced Stage Makeup. 3 sem. hrs.
A studio course using a variety of materials in the art of mask making, hair ventilating, and prosthetics.
Prerequisite(s): TH 230.

TH 440. Stage Movement III. 3 sem. hrs.
Advanced theory and practice of specific stage movement, such as clowning, mask, stage combat, mime, etc. May be repeated for a maximum of 6 hours for differing topics.
Prerequisite(s): TH 240.

TH 441. Acting III: Advanced Scene Study. 3 sem. hrs.
Thorough exploration of character study, script analysis, and scene work for the actor.
Prerequisite(s): TH 242.

TH 442. Careers In Prof Theatre. 3 sem. hrs.
The course focuses on audition and interview techniques, the union, and resume writing and other skills required to apply for positions in the academic and professional theatre.
Prerequisite(s): TH 441.

TH 444. Acting IV Period Acting Styles. 3 sem. hrs.
Study and practice of acting styles from 1850 to the present, concentrating on classical comedy, high comedy, and acting for the camera.
Prerequisite(s): TH 441.

TH 445. Acting IV Period Actng Styles. 3 sem. hrs.
Study and practice of acting in verse drama, concentrating on Shakespeare's works.
Prerequisite(s): TH 441.

TH 446. Adv Voice Speech Perform. 3 sem. hrs.
Intensive exercises and practice for acquiring acceptable use of voice and speech for performance.
Prerequisite(s): TH 241.

TH 447. Stage Dialects. 3 sem. hrs.
Study of stage dialects for the performer. Offered in alternate years.
Prerequisite(s): TH 446 and TH 446.

TH 451. Hist Of The Theatre I. 3 sem. hrs.
Prerequisite(s): TH 120 or TH 220.

TH 452. History Of The Theatre II. 3 sem. hrs.
Prerequisite(s): TH 120 or TH 220.

TH 453. European Th Hy Sc 1850. 3 sem. hrs.
Explores the European sources, including plays, essays, technologies, and theory, of the modern and postmodern theatre.
Prerequisite(s): TH 120 or TH 220.

TH 458. American Feminist Theatre. 3 sem. hrs.
Survey of dramas, performances, criticism and theory since 1900 in American Theatre.
Prerequisite(s): TH 120 and TH 220.

TH 465. Musical Theatre Performance I. 3 sem. hrs.
A course in musical theatre scene study, in which acting, singing, and movement skills are blended in the performance of songs and scenes.
Prerequisite(s): TH 166.

TH 466. Musical Theatre Performance II. 3 sem. hrs.
A special topics course exploring such areas as musical theatre history, cabaret performance, in-depth study of a single work, etc.
Prerequisite(s): TH 465.

TH 467. Musicl Theatre Repertoire Coac. 0.5-2 sem. hrs.
Individual coaching in musical repertoire, musical and dramatic performance techniques, and skills crucial to learning and rehearsing new material.
Prerequisite(s): TH 166 and THMT 174, TH 174, or MUA 174.

TH 470. Theatre Management. 3 sem. hrs.
This course will provide students with an overview of the administrative and management functions in the theatre industry, both not-for-profit organizations, as well as the commercial theatre industry.
Prerequisite(s): TH 120 or TH 220.

TH 482. Playwriting I. 3 sem. hrs.
The course introduces the fundamentals of writing for the stage. Practical instruction in playwriting includes an opportunity to write a one-act play.
Prerequisite(s): TH 120 or TH 220.

TH 491. Practicum III. 1 sem. hr.
Participation in University Theatre production through performance and design/leadership assignments in scenery, lighting, properties, sound, costuming, publicity, musical theatre, and stage management, theatre management,etc.
Prerequisite(s): TH 391.

TH 499. Independent Study. 1-4 sem. hr.

Theatre-Muscial Theatre (THMT) Courses

THMT 174. Freshman Musical Theatre Voice. 0.5-2 sem. hrs.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

THMT 274. Sophomore MTVoice. 1-2 sem. hr.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 174 or TH 174.

THMT 374. Junior Musical Theatre Voice. 0.5-2 sem. hrs.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 174 or TH 174.

THMT 474. Senior MTVoice. 1-2 sem. hr.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 374 or TH 374.

Turkish (TURK) Courses

TURK 101. Elementary Turkish. 3 sem. hrs.
Contemporary Turkish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

TURK 102. Elementary Turkish. 3 sem. hrs.
Contemporary Turkish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): TURK 101.

TURK 201. Intermediate Turkish. 3 sem. hrs.
Continuation of Turkish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): TURK 102.

TURK 202. Intermediate Turkish. 3 sem. hrs.
Continuation of TURK 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): TURK 102.

Urdu (URDU) Courses

URDU 101. Elementary Urdu. 3 sem. hrs.
Contemporary Urdu: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

Vietnamese (VIET) Courses

VIET 101. Elementary Vietnamese. 3 sem. hrs.
Contemporary Vietnamese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

VIET 102. Elementary Vietnamese. 3 sem. hrs.
Contemporary Vietnamese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

VIET 201. Intermediate Vietnamese. 3 sem. hrs.
Continuation of Vietnamese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): VIET 102.

Women's Studies (WS) Courses

WS 200. Intro To Women Studies. 3 sem. hrs.
An interdisciplinary course examining the roles of women in patriarchal society, with emphasis on how factors such as race, class, gender, and sexuality contribute to the oppression of women and ways they can be challenged through feminist critical practices.

WS 205. Women'S Autobiographies. 3 sem. hrs.
Through an examination of women's autobiographical writings, the roles women have assumed in different cultures and periods are considered. Analytical techniques from the study of art, literature and psychology are used to discover issues inherent in women's experiences.

WS 220. Mothers And Daughters. 3 sem. hrs.
Investigation of the institution of motherhood, the forces shaping it, and the significance of mother-daughter relationships.

WS 240. Culture Sou Blk Women. 3 sem. hrs.
The history and culture of black women in the South are examined through essays, creative writing, film, music, first-person narrative, and field research.

WS 310. Special Topics. 3 sem. hrs.
Changing topics: for example, women and work, women in the world, social inequality.

WS 340. Women And Law. 3 sem. hrs.
This seminar's major focus is the impact of law on the status and lives of women.

WS 342. Women in the South. 3 sem. hrs.
Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories and novels written by and about women in the 19th and 20th -century South. Writing proficiency within this discipline is required for a passing grade in this course.

WS 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

WS 410. Essential Writings & Readings. 3 sem. hrs.
Essential readings and writings for female equality. Assignments focus on the publications and activities of feminist pioneers from the Enlightenment through the suffragist/abolitionist movement and contemporary period. Writing proficiency within this discipline is required for a passing grade in this course.

WS 430. Women Contemp Society. 3 sem. hrs.
Considers major economic, sociological, psychological, and philosophical approaches to the study of women. Emphasis is on the formulation of theories.

WS 435. Black Feminism. 3 sem. hrs.
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200.

WS 440. Seminar Women'S Studies. 3-9 sem. hrs.
Courses under this rubric are designed to meet a specific need and supplement regular offerings.

WS 450. Independent Study. 1-6 sem. hr.
Independent study on any subject pertaining to women, under the supervision of a professor in the chosen field and/or the program director.

WS 470. Gender Race And Class. 3 sem. hrs.
A cross-cultural approach to the study of gender, race, and class discrimination. Focuses on the mutually reinforcing forces of oppression.

World Literature (WL) Courses

WL 207. World Literature I. 3 sem. hrs.
Survey of world literature from the Classical period to the Renaissance.

WL 208. World Literature II. 3 sem. hrs.
Survey of world literature from the Enlightenment to the Modern period.

WL 223. 19 C Russ Lit In Trans. 3 sem. hrs.
Pushkin, Gogol, Dostoevsky, Turgenev, Tolstoy, Chekhov, and other authors. No knowledge of Russian is required. Offered every other year, usually in the fall semester.

WL 224. 20 C Russ Lit In Trans. 3 sem. hrs.
Nabokov, Gorky, Babel, Solzhenitsyn, Shukshin, and other authors. No knowledge of Russian is required. Offered every other year, usually in the spring semester.

WL 250. Germanic Mythology. 3 sem. hrs.
Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

WL 254. Survey of German Cinema. 3 sem. hrs.
An overview of German Cinema from Silent Era in the 20's through New German Cinema, to post-wall works. Topics: history, socio-cultural frame, directors and cinematography.

WL 260. Holocaust In Film & Literature. 3 sem. hrs.
An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

WL 350. Traditional Chinese Literature in Translation. 3 sem. hrs.
Introduction to Chinese literature earliest times to the 20th century. No knowledge of Chinese is required.

WL 351. Modern Chinese Literature inTranslation. 3 sem. hrs.
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

WL 357. Modern Japanese Lit Trans. 3 sem. hrs.
Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

WL 389. Spec Top World Lit I. 3 sem. hrs.
Cross-listed courses addressing a variety of changing topics in different areas including literature, film, and the other arts.

WL 390. Spec Top World Lit II. 3 sem. hrs.
Cross-listed courses addressing a variety of changing topics in different areas including literature, film, and the other arts.

WL 489. Special Topics Wld Lit. 3 sem. hrs.
Cross-listed with courses from other disciplines, usually the languages, and vary from semester to semester.

WL 490. Special Topics Wld Lit. 3 sem. hrs.
Cross-listed with courses from other disciplines, usually the languages, and vary from semester to semester.

Department of American Studies

The Department of American Studies offers a bachelor of arts (BA) degree and a minor in American studies. American studies is the organized, interdisciplinary pursuit of knowledge about the national culture of the United States. Students can gain a comprehensive understanding of the American people's ideals, values, patterns of behavior and how these change over time.

American Studies Major

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in American studies must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in American studies requires the successful completion of the following 30 semester hours:

		Hours
AMS 150	Introduction to American Studies: Arts and Values (Fall Only) *	3
AMS 151	Intro American Studies: Globalization, Nationalism, and Regionalism (Spring Only) **	3
Select one of the following:		3
AMS 203	Introduction to Southern Studies	
AMS 204	Introduction to Western American Studies	
AMS 205	Dirty Jobs	
Select one of the following:		3
AMS 231	Contemporary America	
AMS 232	Contemp. America in Music	
AMS 491 or	American Period Seminar	3
AMS 492	American Topic Seminar	
AMS electives 400 level ***		6
AMS elective 300 or 400 level		3
AMS electives any level		6
Total Hours		30

*Offered fall semester only
**Offered spring semester only.
***Other than AMS 400 Internship, AMS 403 Honors Research - Ams or AMS 405 Directed Study.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in American studies requires the successful completion of the following courses outside the major:

		Hours
Select two of the following:		6
HY 203 or	Amer Civilizatn To 1865	
HY 205	Honors Amer Civ To 1865	
HY 204 or	Amer Civilizatn Sc 1865	
HY 206	Honors Amer Civ Sc 1865	
Select one of the following:		3
EN 209 or	American Literature	
EN 219	Honors American Literature	
EN 210 or	American Literature II	
EN 220	Honors American Literature II	
Total Hours		9

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300-level AMS courses is six hours in American studies or permission of the instructor, and the prerequisite for 400-level AMS courses is nine hours in American studies or permission of the instructor.

Special Opportunities

Students have the opportunity to complete internships in a variety of settings. Students should contact the department for more information.

American Studies Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in American studies requires the successful completion of the following 21 semester hours:

		Hours
AMS 150	Introduction to American Studies: Arts and Values	3
AMS 151	Intro American Studies: Globalization, Nationalism, and Regionalism	3
Select one of the following:		3
AMS 202	African American Lives	
AMS 203	Introduction to Southern Studies	
AMS 204	Introduction to Western American Studies	
AMS 205	Dirty Jobs	

AMS 231 or	Contemporary America	3
AMS 232	Contemp. America in Music	
AMS electives 400 level *		3
AMS electives 300 or 400 level		3
AMS electives		3
Total Hours		21

*Other than AMS 400 Internship.

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. This minor requires the successful completion of the following courses outside the minor:

Select one of the following:		3
HY 203	Amer Civilizatn To 1865	
HY 205	Honors Amer Civ To 1865	
HY 204	Amer Civilizatn Sc 1865	
HY 206	Honors Amer Civ Sc 1865	
American Literature EN elective *		3

*Must be chosen from the following:

EN 209	American Literature	3
EN 210	American Literature II	3
EN 219	Honors American Literature	3
EN 220	Honors American Literature II	3

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300-level AMS courses is six hours in American studies or permission of the instructor, and the prerequisite for 400-level AMS courses is nine hours in American studies or permission of the instructor.

Faculty

Chair

Adrian, Lynne

Associate Professor

Megraw, Richard B.

Melton, Jeffrey

Morgan, Stacy

Tang, Edward

Assistant Professor

Hubbs, Jolene

Innis-Jimenez, Michael

Spears, Ellen

Weisbard, Eric

Instructor

Fagen, Larry

Courses

AMS 100. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduate students offered by American studies faculty members or supervised teaching assistants. Some examples include the following five-week, one-hour courses: African-American Star Ahtletes, Superbowl Ads, Stand Up Comedy, Disney's America, and Why Eat Local?

AMS 101. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 102. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 103. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 104. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 105. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 106. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 150. Introduction to American Studies: Arts and Values. 3 sem. hrs.
Exploration of the relation between the arts – popular, folk, and elite – and American culture in four selected periods: Victorian America, the '20s and '30s, World War II and the Postwar Era, and the '60s. Class presentations and discussions revolve around novels, movies, art, music, artifacts, and readings about the periods. This course is team taught by all the members of the American studies faculty. Offered fall semester.

AMS 151. Intro American Studies: Globalization, Nationalism, and Regionalism. Nation regions 3 sem. hrs.
World, Nation, Regions. A broad survey of American culture formed by global, national, and regional influences. The first section, "World," looks at the United States as a product and shaper of international movements, ideas, and cultures from 1500 to the present. The second section, "Nation," examines the creation of a distinctly American identity between 1790 and 1890 that ultimately incorporated and reflected global issues. The third section, "Regions," focuses on the South and other regions as contributors to and consequences of national and global interactions. Team taught by the entire AMS faculty, lectures will include topics on film, music, literature, art, sports, and other cultural artifacts. Offered spring semester.

AMS 155. Freshman Seminar. 3 sem. hrs.

AMS 200. Special Topics Amer Stud. 3 sem. hrs.
Selected American topics for lower-division undergraduate students offered by AMS faculty members or Americanists from related departments. Recent examples include The Asian-American Experience, The American Road, The Sporting Life, Baseball Since 1945, and Twilight Zone Culture. May be repeated for a maximum of 12 hours.

AMS 201. Intro African Amer Study. 3 sem. hrs.
This course provides a basic outline of the diversity and complexity of the African American experience in the United States. It surveys the early academic and social concern of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation, and multiculturalism; and its major theoretical and critical debates.

AMS 202. African American Lives. 3 sem. hrs.
A cultural approach to African American lives, examining how the selected course texts express the formation of individual identity and how it is influenced by African American culture. The role of the individual, biography, and narrative in African American history and contemporary culture will be explored. The course draws upon a variety of texts, including historical and theoretical work, visual arts, music, literature, material culture, and documentary and feature films.

AMS 203. Introduction to Southern Studies. 3 sem. hrs.
This discussion-based course introduces students to major texts and interdisciplinary methodologies in the field of Southern Studies. Traversing epochs from before the Civil War until after the Civil Rights Movement, we will scrutinize the interplay between course materials (autobiographies, fictional texts, historical accounts, and films) and major political, cultural, and social forces influencing the region and the nation.

AMS 204. Introduction to Western American Studies. 3 sem. hrs.
A lecture/discussion course utilizing a biographical approach to the salient themes, issues, and episodes of the American West. Some of these lives are real, some of them imagined, and others are a little of each. All of them, however, reveal much about both region and nation and how each has changed over time.

AMS 205. Dirty Jobs. 3 sem. hrs.
This course explores jobs that get you "dirty." Work is one of the aspects that most shapes individual lives, and many lines of work are viewed as dangerous, dirty, or somehow unsavory by American society. This course uses films, TV shows, written narratives, and music to explore different types of "dirty" work in the United States.

AMS 208. Rock, Hip-Hop and Country. 3 sem. hrs.
This class will offer an introduction to popular music that young Americans used, for two generations, to root their aesthetics, center their values, and test their ethical allegiances. Students will look at enduring and innovative music, but also trained to understand the contexts that have shaped how that music was both produced and consumed. In popular music, the line between artist and audience is inevitably blurry. Few forms of culture have been so fundamental in shaping what scholars call “affective alliances”—the way, when rhythms fill our bodies and voices fill our heads, we find others who share those passions, and the way they guide how we speak, dress, act cool, and just generally move through the world. 3.

AMS 222. Modern Gay America. 3 sem. hrs.
This course will focus on the emergence of the GLBT community in 20th century American Culture. We will look at the many ways GLBT identity developed in the 20th century by exploring the intersections of science, religion, popular culture, politics, and urbanization on GLBT people. Because the experience of GLBT individuals is so varied, we will use a variety of media to create patterns and connections within this diverse community.

AMS 231. Contemporary America. 3 sem. hrs.
This course has two principal objectives. Students will analyze the changing nature of American cultural values for the period dating from the early 1970s to the present. By placing materials drawn from literature, film, the visual arts, music, and popular culture within broader social and historical contexts, students will examine key developments in the everyday life patterns and cultural expressions of Americans in contexts that range from the local to the international. In addition, the course will familiarize students with a sampling of the interdisciplinary methodologies applicable to work in the field of American studies (e.g., analysis of images and primary documents, oral history, and ethnography). Offered fall semester.

AMS 232. Contemp. America in Music. 3 sem. hrs.
This course uses music and culture to analyze the changing nature of American values after the 1960’s and introduces interdiscplinary research methods.

AMS 251. American Folklore. 3 sem. hrs.
Survey and analysis of such genres of American vernacular expression as legends, ghost tales, humor, music, and sermons as they express and shape particular regional and/or ethnic American identities. Course materials include ethnographic writing, sound recordings, film, and folklore scholarship. Attention also given to the competing and sometimes contradictory definitions of “folk” culture from the 19th century to the present.

AMS 271. Film & American Culture. 3 sem. hrs.
Interdisciplinary investigation of American culture through motion pictures, film history, and relevant cultural/historical documents. Focus on the ways in which films have reflected and influenced prevailing American attitudes and values. Variable focus on a specified theme, genre, or representations of a particular American region.

AMS 300. Special Topics. 3 sem. hrs.
Selected American topics for advanced undergraduate students, offered by American Studies faculty members or Americanists from related departments. Recent examples include American Hobo Subculture, World War II and Modern Memory, Women’s Liberation Movement, Justice and Civil Society, Southern Sexual Cultures, and Cultures of American Slavery. May be repeated for a maximum of 12 hours.

AMS 302. The Black Church. 3 sem. hrs.
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AMS 303. Education Of Southern Blacks. 3 sem. hrs.
A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AMS 306. Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 315. United States Labor Since 1865. 3 sem. hrs.
Examines the history of workers - men and women, paid and unpaid, of different racial and ethnic groups, in different regions of the United States - from 1865 to the present.

AMS 316. Labor on Film. 3 sem. hrs.
This course examines the ability of film to successfully portray the history of labor in the US and how present events and attitudes shape portrayals of past events.

AMS 318. Amusement and Tourism. 3 sem. hrs.
The course explores varied forms of leisure culture that emerged in the 19th century and exploded in popularity throughout the 20th century. The course examines leisure culture as a vibrant component of American social, economic, and aesthetic history. Using travel narratives and fictional works, along with historical critiques, art, and other popular culture documents, the course explores Americans as they tour the nation, take vacations, and seek amusement. The course provides a framework for understanding the centrality of leisure as it has influenced how Americans see themselves and their national character.

AMS 320. American Popular Humor. 3 sem. hrs.
This course explores major writers, performers, works, and themes of American humor that have achieved enduring popularity among mass audiences. It examines the social and historical contexts that reverberate in humor produced in the United States and focuses on three persistently popular mediums: prose and performance; film; and the television situation comedy.
Prerequisite(s): 6 SH American Studies or equivalent courses or permission of instructor.

AMS 321. African American Folk Art. 3 sem. hrs.
An examination of the objects created by African Americans variously classified as "folk," "self-taught," and "outsider" artists. Course material will address the African origins and American transformations of traditional arts and crafts (architecture, pottery, iron work, and quilting) as well as the work of selected 20th-century artists in such media as painting, sculpture, and assemblage. Key concerns will include not only analysis and cultural/historical contextualization of these artists and their works but also political and theoretical debates with respect to issues of collection, modes of exhibition, and use of the above-listed classifications.

AMS 325. America West And 19th Century. 3 sem. hrs.
Few things remained so central to the 19th American century experience as the West, a region to be explored, inhabited, and incorporated into an expanding urban-industrial society. From Lewis and Clark to Buffalo Bill, this lecture/discussion course examines the relationship between America and the West as it developed throughout the 19th century.

AMS 326. The Modern West. 3 sem. hrs.
This lecture/discussion course examines the growth of the American West during the 20th century as both the embodiment of modernity and, as mythic imagination, an escape from the very modernity it represents.

AMS 331. Writer & Artist In America. 3 sem. hrs.

AMS 332. Popular Culture In Amer. 3 sem. hrs.

AMS 335. American Pop Music. 3 sem. hrs.
Recent scholarship has shifted popular music history from folk roots and rock rebellion to pop: commercial, accomodating, but no less fascinating amalgamations. This class will range from blackface mistrelsy in the 1800s to American Idol today, defining mainstreams rather than undergrounds. Pop music performed capitalism, but it also performed democracy. Sorting out that process will be the task.

AMS 340. Women In The South. 3 sem. hrs.
What insights into American experience are afforded by reading nineteenth- and twentieth-century texts in which Southern women engage questions of gender, class, race, labor, and region? This class will explore fictional and nonfictional prose by and about Southern women in order to examine how historical, cultural, and sociopolitical factors have shaped the lives and writings of women in the South. Writing proficiency within this discipline is required for a passing grade in this course.

AMS 341. African American Art. 3 sem. hrs.
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the Women’s Movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AMS 351. American Music Theatre History. 3 sem. hrs.
This course provides you with a review of the historical genres, circumstances and catalogue of material that developed the american musical theatre from its ministrel beginnings to the multi-million dollar spectacles of today.

AMS 364. The Beatles Era. 3 sem. hrs.
Interdisciplinary investigation of American culture from the Kennedy assassination in 1963 to the Kent State University massacre in 1970 using the popular cultural explosion of the Beatles as a prism that informs the whole.

AMS 367. The American Game. 3 sem. hrs.
Lecture topics, readings, and classroom discussions will pursue major connections between baseball and American society from 1880 to the present: (1) the modernization of America and the rise of an urban, industrial game; (2) baseball and race; and (3) postwar America and baseball.

AMS 400. Internship. 1-3 sem. hr.
An internship opportunity that combines independent study and practical fieldwork experience focusing on a particular problem or topic related to American culture and experience. Examples are internships in archival fieldwork, material culture fieldwork, museum management, and sound recordings. Credits earned in this course are applicable to the major and minor in American studies but are not counted in 400-level requirement. May be repeated for a maximum of 6 hours.

AMS 401. Black Intellectual Thought. 3 sem. hrs.
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.

AMS 402. Special Topics. 3 sem. hrs.
Selected African American topics for advanced undergraduate students. May be repeated for a maximum of 12 hours.

AMS 403. Honors Research - Ams. 3 sem. hrs.
Internship opportunity that combines guided and independent study with on- or off-campus research experience involving a particular methodological approach to American culture and experience. Examples are social science methods, oral history, original manuscript research, and technology.

AMS 405. Directed Study. 1-3 sem. hr.
May be repeated for a maximum of 6 hours.

AMS 406. Directed Study. 1-3 sem. hr.

AMS 407. Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 412. On The Road. 3 sem. hrs.
This course seeks to introduce the breadth and power of the travel culture that defines "America" and examines enduring features when writers take to the open road in America. Writing proficiency within this discipline is required for a passing grade in this course.

AMS 415. Service Learning. 3 sem. hrs.
Course examines immigrant journey and life in American South to gain an understanding of historical and contemporary issues through research and service.

AMS 416. American Environmental Thought in a Global Context. 3 sem. hrs.
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization. Using accounts from various regions, the course explores evolving conceptions of nature and justice, competing claims about race and class, and changing institutional responses and remedies to environmental degradation in the context of global change. The course is highly interactive, inviting critical thinking about the human place in the physical world.

AMS 421. Writer & Artist in America. 3 sem. hrs.
An examination of the changing social and cultural background of American writers and artists during the 19th and 20th centuries. Topics will include the definition of the developing role of the artist in American culture, and assessment of the American and European influences on artists, and an appraisal of the influence of artists on American culture. Painting, literature, music, photography, and architecture are among the arts dealt with.

AMS 422. Popular Culture in America. 3 sem. hrs.
Survey and analysis of 20th century US popular culture including social context and how it has reflected and shaped American society, including gender, race, class and region.

AMS 423. The Roots of American Music . 3 sem. hrs.
This class surveys American music from ragtime, blues, and hillbilly to Broadway, Hollywood musicals, and swing jazz. Our focus will be on commercial mainstreams and democratic audiences – how selling sound led to different identities being expressed through taste and style. Race, gender, class, sexuality, age, technology, and the music business will all factor as we move from blackface minstrelsy in the 1800s to World War II. We will listen closely to several songs each week, connecting music to larger themes through primary and secondary sources, regular writing, and in-class discussion.
Prerequisite(s): 9 SH American Studies or related courses or permission of the instructor.

AMS 429. America between the Wars. 3 sem. hrs.
Explores first two decades of America's "Modern Times" (1919-1941) when Americans redefined themselves and their society embracing and debating (sometimes hotly) old beliefs, new conceptions, and the implications of a machine-driven, modern-mass society.

AMS 430. Special Topics. 3 sem. hrs.
Selected American topics for advanced undergraduate majors in American studies, offered by American Studies faculty members or Americanists from related departments. May be repeated for a maximum of 6 hours.

AMS 439. Urban Spaces: The Nature of Cities. 3 sem. hrs.
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present. Course readings include classical scholars in urbanism and urban design. Contemporary urban environmental histories explore population shifts and land use along the urban gradient from the suburbs to urban centers, with attention to water, sewer, and transportation infrastucture,pollution, and urban sprawl.

AMS 445. The "Good War". 3 sem. hrs.
Examination of selected topics from the American experience during the Second World War. Topics include the Homefront, the Holocaus, race relations, the emergence of American air power, and the impact of the war on American memory and postwar American society.

AMS 446. Gender and Environment. 3 sem. hrs.
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform. Texts include histories of environmental conceps and reform campaigns, broadly conceived, including slave narratives, accounts of experiences in the women's club movement, the conservation movement, and Progressive Era occupational and public health reform, along with more well-known twentieth centruy nature writers, contemporary scholars, and activists. Particular attention is paid to women whose identities are defined in part by their status as immigrants, women of color, or in other marginalized categories. Case studies explore global environmental reform as well as U.S. experiences.

AMS 460. Race & Ethnicity in US Labor. 3 sem. hrs.
This course is designed to familiarize students with the important topics, themes, and methodologies in the study of race and ethnicity in U.S. labor. Throughout the semester, the class will examine the lives of working women and men and their roles in the social, political, and economic development of the United States. The class will analyze the roll of gender, race, and ethnicity at home and in the workplace and examine how scholars have studied the people, events and institutions in this field.

AMS 465. Fictions of American Identity. 3 sem. hrs.
An examination of American literature and culture from before the Civil War until after the Civil Rights Movement. Representations of American experience in essays, novels, poems, short stories, social reformist tracts, and the visual arts will be studied in the context of social and political debates over slavey, national identity, women's roles, immigration and assimilation, social mobility, urbanization, sexual mores, consumer culture, and race relations.

AMS 470. Native-Whites to 1830. 3 sem. hrs.
This course will focus on the complex and intertwined relationships between Native Americans and white peoples: how each challenged, adapted to, and retreated from the other up to 1830. The class will assess: colonial encounters among Native Americans, Spanish, French, and English; the meanings of white captives among the Indians; crossing over into different cultures and transforming identities in the new nation; and the impact of forced removal of Indians.

AMS 476. Constructing the American Rev. 3 sem. hrs.
From the Declaration of Independence to the Civil War, Americans have continually tried to provide narrative shape and cultural significance to their national orgins. Through the analysis of primary and secondary sources (political tracts, art works, histories, biographies, fiction, and other artifacts), this course will explore the relationship between the eighteenth-century revolutionaries' and their ninetheenth-century heirs' cultural construction of the Revolution. Simply put, this course is about how people in the past have thought about their own past.

AMS 480. Democracy in America. 3 sem. hrs.
Using Tocqueville's observations and fiction, autobiography, painting and politics the course examines how American's present themselves as a democractic people from 1800-1830.

AMS 485. American Exper 1620-1865. 3 sem. hrs.

AMS 486. American Exper 1865-1960. 3 sem. hrs.

AMS 491. American Period Seminar. 3 sem. hrs.
In-depth study of a particular period or era in American historical experience. Recent examples include the Ragtime Era, the Jazz Age, the Great Depression, the Season of 1954-55, the '60s, Contemporary America, the Romantic Revolutionaries (1905-14), the Postwar Era, American Avant Garde, the South and '30s Expression, the Civil Rights Movement, the American '20s, the '50s, America between the Wars, the Colonial Period, the Aspirin Age, Postmodern America, Contemporary America, and Writing West.

AMS 492. American Topic Seminar. 3 sem. hrs.
Study of special topics within the American cultural experience. Recent examples include American Thought, Sports in American Life, American Perspectives on the Environment, the Civil Rights Movement, the Picture Press, Music and Ethnicity, the Politics of Culture, Regionalism, Homelessness in America, American Autobiography, American Monuments, Southern Popular Culture, Politics and Culture, Historical Memory, America by Design, Women in America, Race in America, 19th-Century Popular Culture, and Disasters in America.

Department of Anthropology

19 ten Hoor Hall
205-348-5947

The Department of Anthropology offers a bachelor of arts (BA) degree, a minor in anthropology and an Evolutionary Studies (EvoS) interdisciplinary minor. Anthropology includes the study of archaeology, cultural anthropology, physical anthropology or anthropological linguistics. Students may also pursue a Southeastern archaeology track and pre-health track in either the major or the minor.

Students are expected to meet the director of Undergraduate Studies as soon as they declare a major or minor in Anthropology. The director will advise them of curriculum requirements and assign them a faculty adviser in the anthropology department.

Anthropology Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in anthropology must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanationon grade point average calculations.

Major Courses

The major in anthropology requires the successful completion of the following 30 semester hours:

		Hours
ANT 102	Intro Cultural Anthropology	3
ANT 107	Intro To Archaeology	3
ANT 210	Language And Culture	3
ANT 270	Intro To Physical Anthropology	3
ANT 436 or	Social Structure	3
ANT 440	Culture	
ANT archaeology 300 or 400 level *		3
ANT physical 300 or 400 level **		3
ANT electives 300 or 400 level		6
ANT elective		3
Total Hours		30

*The archaeology field requirement must be completed from this list:

ANT 318	Ancient Cities & Empires	3
ANT 319	Ancient New World Civilization	3
ANT 368	Southeastern Archaeology	3
ANT 408	Ancient Mexican Civilization	3
ANT 409	Ancient Maya Civilization	3
ANT 424	Cultural Resource Management	3
ANT 426	Archaeology of East North America	3
ANT 444	Anthropology And Cemeteries	3
ANT 445	Historical Archaeology	3
ANT 460	Anthro Natural History Museums	3
ANT 465	Lithic Analysis	3
ANT 466	Laboratory Methods Archaeology	3
ANT 467	Methods Prehistoric Iconography	3
or any 300- or 400-level physical archaeology course		

**The physical anthropology course must be completed from this list:

ANT 311	Population, Health & Human Origin	3
ANT 312	Non-Human Primates	3
ANT 471	Fossil Humans and Evolution	3
ANT 473	Human Osteology	4
ANT 475	Biology, Culture & Evolution	3
ANT 476	Nutritional Anthropology	3
ANT 478	Anthro of Human Development	3
ANT 479	Human Paleopathology	3
or any 300- or 400-level physical anthropology course		

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The major in anthropology does not require ancillary courses. However, students considering graduate school are encouraged to study a foreign language.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level ANT courses is 12 hours in anthropology, graduate standing or permission of the instructor.

Special Opportunities

The department sponsors a local chapter of Lambda Alpha, a national anthropology honor society. Membership requires junior standing, at least 12 hours of completed coursework in the major and a minimum cumulative GPA of 2.5. The department also supports an active student-run Anthropology Club, which is involved in archaeological digs, the Moundville Native American Festival, a softball team, and many other academic and recreational activities throughout the year.

Health Professions Concentration

Students pursuing a major or minor in anthropology who are interested in a career in health professions such as medicine, nursing, public health, health policy, epidemiology, medical anthropology and medical sociology can choose a sequence of courses in the health professions concentration. These students should choose the anthropology electives from the following courses:

Health Professions Concentration		Hours
ANT 411	Culture Health & Healing	3
Select two of the following:		6
ANT 208	Anthropology of Sex	

ANT 275	Race, Ethnicity Human, and Variation	
ANT 311	Population, Health & Human Origin	
ANT 402	Gender Ethnicity & Health	
ANT 405	Culture Mind And Behavior	
ANT 419	Myth Ritual And Magic	
ANT 476	Nutritional Anthropology	
ANT 478	Anthro of Human Development	
ANT 479	Human Paleopathology	
or any cultural or physical medical anthropology course offered		
Total Hours		9

Southeastern Archaeology Concentration

Students pursuing a major or minor in anthropology who are interested in an academic career in archaeology or a career in cultural resource management with companies such as the National Park Service, the National Forest Service, Bureaus of Land Management, U.S. Army Corps of Engineers and State Historic Preservation offices or private consulting firms should choose a total of nine hours of anthropology electives from the following courses:

Southeastern Archaeology Concentration		Hours
ANT 269	Field Archaeology	3
ANT 466	Laboratory Methods Archaeology	3
Select one of the following:		3
ANT 368	Southeastern Archaeology	
ANT 424	Cultural Resource Management	
ANT 426	Archaeology of East North America	
Total Hours		9

Anthropology Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students are expected to meet the director of Undergraduate Studies as soon as they declare a minor in Anthropology. The director will advise them of curriculum requirements and answer any questions concerning curriculum.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanationon grade point average calculations.

Minor Courses

The minor in anthropology requires the successful completion of the following 18 semester hours:

		Hours
Select two of the following:		6
ANT 100	Intro To Anthropology	
ANT 102	Intro Cultural Anthropology	
ANT 107	Intro To Archaeology	
ANT 210	Language And Culture	
ANT 270	Intro To Physical Anthropology	
ANT electives 300 or 400 level		6
ANT electives		6
Total Hours		18

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level ANT courses is 12 hours in anthropology, graduate standing or permission of the instructor.

Evolutionary Studies Minor

The Evolutionary Studies (EvoS) program is an interdisciplinary minor. The minor is housed in the Department of Anthropology and co-directed by Dr. Christopher Lynn (Anthropology) and Dr. Leslie Rissler (Biological Sciences). It combines courses in biology, anthropology, geology, psychology, philosophy and history. Students are required to complete 18 credits that will introduce students to the principles of evolution and its numerous applications for understanding all life. The purpose of this program is to provide students a foundation in one of the most important explanatory theories of modern thought.

This minor includes two team-taught capstone courses that are integrated with the University's Alabama Lecture's on Life's Evolution (ALLELE) series. Speakers for this series change annually, and a list of current and past speakers can be found here. This integration involves the interaction of students with invited speakers from various disciplines inside and outside the classroom, exposure intended to provide students with a vantage on post-baccalaureate opportunities for people with training in evolutionary studies.

EvoS is part of a worldwide consortium that includes 42 other institutions. This affiliation provides students access to additional resources outside UA, including an EvoS Journal, archived lectures by evolution experts, a newsletter, blogs and links to student EvoS groups active at other institutions.

Declaring a Minor in Evolutionary Studies

There are no prerequisites for admission to the EvoS minor. Students are expected for formally declare the EvoS minor with the assistance of the EvoS program directors, Christopher Lynn (cdlynn@ua.edu) and Leslie Rissler (rissler@as.ua.edu).

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the major that the student has attempted at UA and all work attempted applicable to the minor throughout the entire higher education career.

Courses in the Minor

A EvoS minor requires the successful completion of the following courses:

		Hours
FLC 101	Freshman Learn Comm Seminar	1
ANT 150	Evolution for Everyone	3
BSC 220	Biol Evol	3
400-level BSC Evolutionary Studies Course		3
One of the following:		3-4
ANT 270	Intro To Physical Anthropology	
GEO 102	The Earth Through Time	
Total Hours		13-14

Elective "Context" Areas

Six or more credits from at least two different departments that are not your major.

Anthropology Electives

ANT 208	Anthropology of Sex	3
ANT 270	Intro To Physical Anthropology	3
ANT 275	Race, Ethnicity Human, and Variation	3
ANT 311	Population, Health & Human Origin	3
ANT 312	Non-Human Primates	3
ANT 471	Fossil Humans and Evolution	3
ANT 473	Human Osteology	4
ANT 475	Biology, Culture & Evolution	3
ANT 479	Human Paleopathology	3

Biological Sciences Electives

BSC 315	Genetics	3
BSC 373	Vertebrate Zoology	4
BSC 400	Vertebrate Funct Morphol	4
BSC 420	Principles Of Systematics	4

BSC 428	Biology Of Fishes	4
BSC 434	Plant Systematics	4
BSC 441	Developmental Biology	3
BSC 448	Animal Behavior	3
BSC 464	Biology Of Algae	4
BSC 482	Conservation Biology	3
BSC 483	Evolution	3

Geology Electives

GEO 102	The Earth Through Time	4
GEO 355	Invertebrate Paleontology	3
GEO 367	Sedimentology/Stratigraphy	4
GEO 401	Paleoclimatology	3

History Electives

HY 300	Special Studies in History	3
HY 400	Special Studies in History	1-6

Philosophy Electives*

PHL 286	Introduction to Philosophy of Science	3
PHL 364	Philosophy of Cognitive Science	3
PHL 387	Philosophy and Evolution	3
PHL 390	Special Topics in Philosophy	1-3

* if not taken as a foundation course

Psychology Electives

PY 313	Sensation and Perception	3
PY 352	Developmental Psych	3
PY 372	Social Psychology	3
PY 413	Physiological Psych	3

Faculty

Chair

Dr. Michael Murphy

Director of Undergraduate Studies

Dr. Lisa LeCount

Undergraduate Studies Secretary

Melissa Sartain

Professors

Blitz, John H.

Jacobi, Keith P.

Brown, Ian W.

Dressler, William W.

Knight, Vernon J.

Murphy, Michael Dean

Oths, Kathryn S.

Associate Professor

Decaro, Jason

Galbraith, Marysia

LeCount, Lisa J.

Assistant Professor

Lynn, Christopher

Copper, Elizabeth E.

Wolfgram, Matthew

Kosiba, Steve

Courses

ANT 100. Intro To Anthropology. 3 sem. hrs.
Introduction to the study of man from an anthropological perspective. Contributions to understanding man from the humanities, as well as the biological, social, and historical sciences are considered.

ANT 102. Intro Cultural Anthropology. 3 sem. hrs.
Introduction to the study of contemporary cultures and societies and the linguistic components of human behavior.

ANT 103. Discoveries In Archaeology. 3 sem. hrs.
This course deals with the major archaeological discoveries made in the past two centuries and their impact on Western thought.

ANT 106. Indians Of North America. 3 sem. hrs.
Comprehensive overview of the prehistory, history, and contemporary culture of native North American Indians.

ANT 107. Intro To Archaeology. 3 sem. hrs.
Overview of the methods archaeologists use to study prehistoric cultures and an introduction to the study of human culture over the past two million years.

ANT 113. Indians Of Deep South. 3 sem. hrs.
Introduction to the Native Americans of Alabama and their nearby neighbors. Focuses on describing and explaining lifeways of indigenous peoples using ethnographic, ethnohistoric, and archaeological studies.

ANT 150. Evolution for Everyone. 3 sem. hrs.
This course is designed to open students minds to what evolution is and how it applies to all life. Toward that end, we will view lectures given by evolutionary scholars from varied institutions and disciplines.

ANT 155. Freshman Seminar. 3 sem. hrs.

ANT 208. Anthropology of Sex. 3 sem. hrs.
This course is an introduction to human sexuality from a biocultural perspective with emphases on sexual diversity and pluralism and psychosexual evolution. It traces the evolution of human sociosexual behavior, including human sexual physiology, preproductive strategies; contemporary courtship, mating and marital patterns; gender differences in the brain and behavior; and sexual and social emotions. It compares the sexuality of humans to non-humans, especially to that of other primates. It also discusses human sexuality from the perspective of different cultures throughout the world. Among other topics, the course will address the psychobiocultural dimensions and implications of attraction, fidelity sex techniques, gender, incest, homosexuality and transexuality and sexually transmitted diseases.

ANT 210. Language And Culture. 3 sem. hrs.
Human activity in its linguistic, cultural, and social contexts; interrelationships between culture and natural language; and the influences of language and culture on thought and behavior.

ANT 215. Anthropology in Movies and Fiction. 3 sem. hrs.
Compares portrayals of anthropologists and core anthropological issues in movies and fiction to anthropological perspectives and scholarship.

ANT 250. Issues in Anthropology. 3 sem. hrs.
This course is a flexible listing designed to cover specific topics in anthropology not already offered through an existing course. It is similar to ANT 450 Problems in Anthropology, but allows students with less exposure to ANT or the particular issues addressed an opportunity to learn more at a more introductory level.

ANT 269. Field Archaeology. 6-12 sem. hrs.
Supervised participation in the excavation and analysis of archaeological deposits.

ANT 270. Intro To Physical Anthropology. 3 sem. hrs.
Introduction to the study of human biological and cultural evolution.

ANT 275. Race, Ethnicity Human, and Variation. 3 sem. hrs.
Historical and contemporary perspectives on human biological diversity, including the concepts of race, ethnicity, adaptation, and some of the social implications of these views.

ANT 311. Population, Health & Human Origin. 3 sem. hrs.
Focuses on the relationships among human ecology, population growth, health and disease, and adaptation in modern and prehistoric societies. Explores the origins of infectious diseases, emphasizing the principles of epidemiology and evolution of pathogens.
Prerequisite(s): ANT 100 or permission of the instructor.

ANT 312. Non-Human Primates. 3 sem. hrs.
This course is an introductory survey of the world's living non-human primates. The focus is on the taxonomy, anatomy, behavior, ecology and cognition of our closest living relatives. It is intended both as a starting point for further coursework in primate behavior and as a survey course for non-science students.
Prerequisite(s): ANT 100 or ANT 270 or permission of the instructor.

ANT 317. Anth-Modern Life. 3 sem. hrs.
Application of anthropological theories and findings to selected issues and problems of living in complex industrialized societies. Offered according to demand.
Prerequisite(s): ANT 100 or ANT 102.

ANT 318. Ancient Cities & Empires. 3 sem. hrs.
A comparative study of ancient cities and empires with examples from the Old and New Worlds.
Prerequisite(s): ANT 100 or ANT 103 or ANT 107.

ANT 319. Ancient New World Civilization. 3 sem. hrs.
An introduction to the ancient civilizations of Mesoamerica and South America. Explores the development of economic and political institutions as well as hieroglyphic texts, art styles, and religious rites.
Prerequisite(s): ANT 107 or permission of the instructor.

ANT 368. Southeastern Archaeology. 3 sem. hrs.
Origin and development of pre-Columbian and early historic cultures of the Southeast. Offered according to demand.
Prerequisite(s): ANT 107.

ANT 401. Linguistic Anthropology. 3 sem. hrs.
Scientific study of natural language – phonology and grammar, lexicon and meaning – and the role of linguistics in anthropological research. Offered according to demand.

ANT 402. Gender Ethnicity & Health. 3 sem. hrs.
Explores the gendered, ethnic, cultural, and class dimensions of sickness worldwide, with attention to the long-term health effects of sexism, racism, and poverty.

ANT 405. Culture Mind And Behavior. 3 sem. hrs.
Cultural and linguistic basis of cognitive organization, systems of folk classifications, and collection and analysis of data of shared cultural and social information. Offered according to demand.

ANT 408. Ancient Mexican Civilization. 3 sem. hrs.
Survey of the origins and development of ancient civilizations in Mexico.
Prerequisite(s): ANT 107.

ANT 409. Ancient Maya Civilization. 3 sem. hrs.
Ancient Maya civilizations in Mexico and Central America from the earliest inhabitants until the Spanish Conquest.
Prerequisite(s): ANT 107.

ANT 411. Culture Health & Healing. 3 sem. hrs.
Survey of health, illness, and healing among and within different cultural systems.

ANT 412. Peoples Of Europe. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of European societies. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 413. Peoples Of Latin Amer. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of Latin American societies.

ANT 414. Peoples Of Africa. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of African societies.

ANT 417. Peoples Of South Asia. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of South Asian societies.
Prerequisite(s): ANT 100 or ANT 102.

ANT 418. Dev Non-West Cultures. 3 sem. hrs.
Theoretical and descriptive study of social change and development in non-Western societies. Major emphasis is placed on the effects of change on indigenous institutions. Both ethnographic and theoretical literature are examined. Offered according to demand.

ANT 419. Myth Ritual And Magic. 3 sem. hrs.
Survey of the anthropological literature on religion, including such topics as myth, ritual, magic, witchcraft, totemism, shamanism, and trance states. Offered according to demand. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 102 or REL 100.

ANT 421. Ethnography. 3 sem. hrs.
Students work with University Libraries to develop research to address on going changes in information technology and the impact of such changes for UA students. Emphasizes the research design process as practiced by professional, applied anthropologists, including communicating roles and expectations with client stakeholders, developing testable hypotheses, operationalizing variables, and determining project scope, timeline, and budget.
Prerequisite(s): 12 hrs of Anthropology or permission from instructor.

ANT 423. Legal Anthropology. 3 sem. hrs.
Overview of legal systems and practices worldwide, with a focus on current issues of cross-cultural importance.

ANT 424. Cultural Resource Management. 3 sem. hrs.
The theory and strategies of, and processes for, undertaking research within the legal and practical setting of CRM-driven archaeology.

ANT 426. Archaeology of East North America. 3 sem. hrs.
Examination of the origins and developments of pre-Columbian and early historic cultures of eastern North America.
Prerequisite(s): ANT 107.

ANT 431. Readings In Anth. 1-3 sem. hr.
Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 432. Readings In Anthropology. 1-3 sem. hr.
Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 436. Social Structure. 3 sem. hrs.
Social organization and structure, social life and institutions (especially in non-literate societies), kinship, descent groups, marriage, residence, and local group composition. Offered every third semester.
Prerequisite(s): ANT 100 or ANT 102.

ANT 438. Anthropology of Art. 3 sem. hrs.
The course views the art that societies past and present produce; it explores culture, creativity, and human beings' distinctive compulsion to make decorative objects.
Prerequisite(s): ANT 102.

ANT 439. Topics Anthropology Religion. 3 sem. hrs.
An examination of contemporary issues and topics in the anthropology of religion.

ANT 440. Culture. 3 sem. hrs.
A selective review of past and contemporary concepts, theories, and methodological approaches adopted by cultural anthropologists. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 441. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Application and permission of instructor required.

ANT 442. Documenting Justice II. 3 sem. hrs.
Continuation of ANT 441.
Prerequisite(s): ANT 441.

ANT 444. Anthropology And Cemeteries. 3 sem. hrs.
Using approaches developed in the discipline of anthropology and, more particularly, in the subfield of archaeology, an exploration of the different ways in which local cemeteries can yield information on cultural, societal, and historical matters. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 445. Historical Archaeology. 3 sem. hrs.
Combines the methods used in historical archaeology with a basic survey of the archaeological record of the historic period of North America.

ANT 450. Probs In Anthropology. 3 sem. hrs.
Devoted to issues not covered in other courses. May be repeated for a maximum of 6 hours.

ANT 451. Undergraduate Research. 1-6 sem. hr.
Introduction to independant anthropological research with a focus on constructing testable hypotheses, selecting variables, measuring attributes, recording data, making interpretations and writing and presenting results.

ANT 460. Anthro Natural History Museums. 3 sem. hrs.
Examines the historical connections between anthropology and natural history museums in the United States. Explores the present operation of such museums and develops exhibits based on collection studies.

ANT 465. Lithic Analysis. 3 sem. hrs.
Introduction to the basics of analysis of stone tools, their manufacture, and their use by means of microscopic and macroscopic approaches.

ANT 466. Laboratory Methods Archaeology. 3 sem. hrs.
Instruction in the laboratory processing, classification, and elementary data manipulation of archaeological materials.

ANT 467. Methods Prehistoric Iconography. 3 sem. hrs.
An exploration of the concepts and methods used by prehistoric archaeologists to impute meanings in representational art.

ANT 471. Fossil Humans and Evolution. 3 sem. hrs.
Survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution. Offered according to demand.
Prerequisite(s): ANT 270.

ANT 473. Human Osteology. 4 sem. hrs.
Detailed introduction to human osteology emphasizing the identification of fragmentary remains and the criteria for determination of age, sex, and race. Two hours lecture, two hours laboratory. Offered according to demand.
Prerequisite(s): ANT 270.

ANT 474. Neuroanthropology. 3 sem. hrs.
This course provides an introduction to evolutionary and biocultural approaches within anthropology to the central and peripheral nervous systems and their interconnections. Topics include the evolution of the brain; how culture and social structure shape the brain, its development, and its activity; and anthropological perspectives on connections among culture, behavior, brain, mind, and body.
Prerequisite(s): ANT 270 or BSC 300 or PY 413.

ANT 475. Biology, Culture & Evolution. 3 sem. hrs.
An introduction to the biocultural and evolutionary bases of human adaptability. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 270.

ANT 476. Nutritional Anthropology. 3 sem. hrs.
Introduction to anthropological inquiries in nutrition (including food habits, food systems, and dietary variability) from a cross-cultural perspective. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 478. Anthro of Human Development. 3 sem. hrs.
Health culturally competent socialized adults and mature physical forms arise from a developmental process with evolutionary, biological, social and cultural dimensions. We survey child/human development from an anthropological perspective, considering interactons across levels of analysis from genes to culture.
Prerequisite(s): ANT 270.

ANT 479. Human Paleopathology. 3 sem. hrs.
Course investigates skeletal pathology and trauma. Topics included: 1. Understanding disease processes, 2. Distinguishing accidental and violent trauma on bone, 3. Recognizing the following conditions in skeletal remains: congential anomalies, circulatory disorders, joint diseases, infectious diseases, metabolic diseases, skeletal dysplasias, neoplastic conditions, diseases of the dentition and other conditions. Students will inventory, evaluate and analyze sets of human skeletal remains for pathology and trauma and complete final reports on those remains.
Prerequisite(s): ANT 270.

Department of Art and Art History

The Department of Art and Art History offers undergraduate majors in studio art (BA and BFA) and art history (BA) and minors in studio art and art history.

Studio Art Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in studio art must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in studio art culminating in a BA degree requires the successful completion of the following 30 semester hours:

		Hours
ART 110	Drawing I	3
ART 130	Design I	3
ART 131	Design II	3
ART 210	Drawing II	3
ART concentration *		12
ART elective 300 level		3
ART elective		3
Total Hours		30

* Students must earn 12 hours in a single studio media area chosen from ceramics, digital media, painting, photography, printmaking or sculpture.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in studio art requires the successful completion of the following courses outside the major:

		Hours
Select one of the following:		3
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
Select two of the following:		6
ARH 381	Art Since World War II	
ARH 385	Early 20th Century Art	
ARH 400	Photographic Discourse	
ARH 481	Topics 20th Century Art	
ARH elective		3
Total Hours		12

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

ARH 151 Intro To Visual Arts is not applicable to the major in studio art. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department of Art and Art History sponsors two student organizations. The Art Student's League presides over a centrally located gallery that primarily features changing exhibitions of student work. The Crimson Ceramics Society is another organization that provides students with opportunities to present ceramics projects in the community and across the state. Declared majors in art and art history can compete for merit-based departmental scholarships, which are awarded annually to returning students. Members of the faculty actively assist students with internship and project placement in design agencies, exhibition venues, public community projects and area museums.

Studio Art Major (BFA)

Degree Requirements

The bachelor of fine arts (BFA) degree with a major in studio art is a professional degree, serving as the foundation for graduate study in studio art. Students pursuing the BFA must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 128 applicable semester hours.

Admission into the Major

Students expecting to complete the requirements for the BFA in studio art in four years must begin the program as first-semester freshmen, but full admission to the BFA program is granted after the BFA review. The BFA review must be conducted during or after the completion of 18 semester hours of studio art courses, preferably during the second term of the sophomore year. If the student does not gain admission into the program after the first attempt, a second BFA review can be conducted before the completion of 30 studio hours. If the student is not accepted into the BFA program after the second BFA review, he or she will not be allowed to pursue the BFA degree. The student is responsible for keeping track of hours completed and applying at the appropriate time. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in studio art culminating in the BFA degree requires the successful completion of the following 81 semester hours:

		Hours
ART 110	Drawing I	3
ART 130	Design I	3
ART 131	Design II	3
ART 210	Drawing II	3
Select two of the following:		6
ART 302	Color Theory & Application	
ART 310	Figure Drawing	
ART 311	Figurative Modeling	
Select four of the following: *		12
ART 212	Ceramics	
ART 216	Painting	
ART 218	Photography	
ART 220	Printmaking	
ART 222	Sculpture	
ART 224	Introduction To Digital Art I *	
ART primary concentration 300 or 400 level *		12
ART secondary concentration 300 or 400 level *		9
Select two of the following:		6
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
Select two of the follwoing:		6
ARH 381	Art Since World War II	
ARH 385	Early 20th Century Art	
ARH 400	Photographic Discourse	
ARH 481	Topics 20th Century Art	
ARH electives		6
ART and ARH electives		12
Total Hours		81

* Students should select studio courses to total 12 hours in a single studio media area chosen from ceramics, digital media, painting, photography, printmaking and sculpture, and another nine hours in a second studio media area. For instance, a student could have 12 hours of painting and nine hours of sculpture.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses.

Required Minor

The BFA does not require completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department of Art and Art History sponsors two student organizations. The Art Student's League presides over a centrally located gallery that primarily features changing exhibitions of student work. The Crimson Ceramics Society is another organization that provides students with opportunities to present ceramics projects in the community and across the state. Declared majors in art and art history can compete for merit-based departmental scholarships, which are awarded annually to returning students. Graduating senior BFA majors present their most mature artwork in the BFA show, which is produced annually. Members of the faculty actively assist students with internship and project placement in design agencies, exhibition venues, public community projects and area museums.

Art History Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in art history must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in art history requires the successful completion of the following 33 semester hours:

		Hours
Select two of the following:		6
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
ARH electives 300 or 400 level		12
ARH electives		15
Total Hours		33

Upper-level Residency

A minimum of 12 hours in 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in art history requires the successful completion of the following courses outside the major:

	Hours
ART electives	6
FR or GN *	10-14
Total Hours	16-20

* Successful completion of two years of university-level proficiency or equivalent proficiency in a single foreign language, preferably French or German, is required.

Required Minor

This major requires the completion of a minor.

Additional Minor Requirements

ARH 151 Intro To Visual Arts is not applicable to the major in art history. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Art (Studio) Minor

Admission into the Minor

Students are expected to declare a minor formally. With the assistance of an adviser in the minor department, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in studio art requires the successful completion of the following 18 semester hours:

		Hours
Select two of the following:		6
ART 110	Drawing I	
ART 130	Design I	
ART 131	Design II	
ART 210	Drawing II	
ART concentration*		6
ART elective 300 or 400 level		3
ART elective		3
Total Hours		18

* Students must earn six hours in a single studio media area chosen from ceramics, digital media, painting, photography, printmaking or sculpture.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed in the minor GPA. The minor in art requires the successful completion of the following courses outside the minor:

		Hours
Select one of the following:		3
ART 110	Drawing I	
ART 130	Design I	
ART 131	Design II	
ART 210	Drawing II	
ARH elective 300 or 400 level		3
Total Hours		6

Additional Minor Requirements

ARH 151 Intro To Visual Arts is not applicable to the minor in studio art. Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College, and University requirements.

Art History Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in art history requires the successful completion of the following 18 semester hours:

		Hours
Select one of the following:		6
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
ARH electives 300 or 400 level		6
ARH electives		6
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The minor in art history requires the successful completion of the following course outside the minor:

ART Elective	3

Additional Minor Requirements

ARH 151 Intro To Visual Arts is not applicable to the minor in art history. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Chair and professor

Pagani, Catherine M.

Professors

Amaki, Amalia

Baker, W. Lowell

Barnes, Thomas

Burke, Gay

Krapf, Uta-Maria

Nancarrow, Minday

Associate professors

Dooley, William

Mellown, Robert

Assistant professors

Curzon, Lucy

Evans, Brian

Jordan, Christopher

Marshall, Sarah

Shineman, Sky

Wedderspoon, Craig

Art History (ARH) Courses

ARH 151. Intro To Visual Arts. 3 sem. hrs.
Not applicable to the studio or art history majors or minors. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.

ARH 252. Survey Of Art I. 3 sem. hrs.
Survey of major examples of painting, sculpture, and architecture from the prehistoric through the medieval periods.

ARH 253. Survey Of Art II. 3 sem. hrs.
Survey of major examples of painting, sculpture, and architecture from the Renaissance through the modern periods.

ARH 254. Survey Of Art III. 3 sem. hrs.
Survey of major examples of painting, sculpture, and the applied arts of India, China, Korea, Japan, and Southeast Asia.

ARH 291. Special Projects. 3 sem. hrs.
This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.

ARH 351. Ancient Art. 3 sem. hrs.
A survey of the contributions of Egypt, Greece, and Rome to the development of Western architecture, sculpture, and painting.

ARH 352. Early Christian Byzantine Art. 3 sem. hrs.
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in the Early Christian West and the Byzantine Empire 312-1453 CE. Attention will be paid to major styles/developments with reference to relevant social, political, religious, historical and technical issues.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 360. Early Medieval Art. 3 sem. hrs.
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in Western Europe between 500-1150 CE. Beginning with backward glances at Roman traditions, special attention is focused on works of art representative of major styles/developments during the focus period with reference to relevant social, political, religious, historical and technical issues.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 361. Late Medieval Art. 3 sem. hrs.
This course considers major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in western Europe between 1100-1350. Beginning with backward glances at earlier visual traditions, attention will be focused on themes including the “Gothic”; ecclesiastical architecture and engineering; artists and their training; book arts and manuscript production; reliquaries and the art of devotion; magnificence at court; crusader art; personal and familial commemoration; and women as patrons and artists. Relevant social, political, religious, historical and technical issues will be addressed in conjunction with these themes.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 363. Masterpieces Of Spanish Art. 3 sem. hrs.
Selected monuments of peninsular Spanish art from the prehistoric period to the contemporary period.

ARH 364. Renaissance Art. 3 sem. hrs.
Survey of 15th- and 16th-century painting, sculpture, and architecture in Europe.

ARH 365. Northern Renaissance Art. 3 sem. hrs.
The art of Flanders and Germany in the 15th and 16th centuries.

ARH 367. Art Patronage Florence. 3 sem. hrs.
Survey of the art of Florence emphasizing the artists and the patrons, such as the religious orders, guilds, and private families who created the Renaissance style in painting, sculpture, and architecture.

ARH 368. Early Renaissance Art. 3 sem. hrs.
This course provides students with a survey of painting, sculpture and architecture during the early Italian Renaissance in major city centers, concentrating on knowledge of major monuments and artists. Attention will be focused on fourteenth-century traditions, fifteenth-century developments, and major themes important to study of the period (technical innovations, the inheritance and influence of antiquity, the status of the artist, religious and political symbolism, the requirements of patrons and the market, and the impact of social conditions and historical events).
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 369. Later Italian Renaissance Art. 3 sem. hrs.
This course provides students with a survey of painting, sculpture and architecture in the later Italian Renaissance (c. 1480-1580) in major city centers, concentrating on knowledge of major monuments and artists. Beginning with backward glances at the fifteenth century, attention will be focused on sixteenth-century developments and major themes important to study of the period (including Mannerism, the status of the artist, and the impact of religious change on works of art), thus encouraging students to have a long-range view of the traditions behind the focus works.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 371. Baroque Art South Europe. 3 sem. hrs.
Survey of painting, sculpture, and architecture in 17th-century Italy, Spain, and France. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 373. Baroque Art North Europe. 3 sem. hrs.
Survey of the art of 17th-century Belgium and Holland, with emphasis on the work of Rubens, Rembrandt, and Vermeer. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 375. Nineteenth Century Art. 3 sem. hrs.
Painting and sculpture from the Neoclassical through the Post-Impressionist periods.

ARH 376. American Architecture. 3 sem. hrs.
American architecture from the colonial period to the 20th century.

ARH 377. American Painting & Sculpture. 3 sem. hrs.
American painting and sculpture from the colonial period to the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 378. Art of the African Diaspora. 3 sem. hrs.
This course examines the work of contemporary artists from the African Diaspora produced since 1990, with an emphasis on those associated with the United States. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 381. Art Since World War II. 3 sem. hrs.
Modernist and postmodernist art and architecture from the mid-20th century to the present.

ARH 385. Early 20th Century Art. 3 sem. hrs.
Painting and sculpture from Impressionism to World War II.

ARH 400. Photographic Discourse. 3 sem. hrs.
Study of the history of photography and ideas about photographic practices. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 455. Topics In Asian Art. 3 sem. hrs.
Selected topics in the art of China and Japan.

ARH 456. The Arts Of Buddhism. 3 sem. hrs.
Major movements and styles inherent in the artistic products of India, China, Japan, Southeast Asia, Tibet, and Nepal.
Prerequisite(s): ARH 254 and ARH 355 or ARH 356.

ARH 467. Topics Renaissance Art. 3 sem. hrs.
Selected artists, monuments, and patrons of the Renaissance and the Mannerist period.

ARH 481. Topics 20th Century Art. 3 sem. hrs.
Study of selected themes in modern and contemporary art. May be repeated for a maximum of 12 hours.

ARH 491. Independent Studies. 3 sem. hrs.

Art, Studio (ART) Courses

ART 110. Drawing I. 3 sem. hrs.
Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

ART 130. Design I. 3 sem. hrs.
Introductory course that explores two-dimensional concepts in a variety of processes and media.

ART 131. Design II. 3 sem. hrs.
Introductory course that explores three-dimensional concepts in a variety of processes and media.

ART 153. Digital Creativity. 3 sem. hrs.
This course explores personal creativity while surveying creative practice from early 20th century to today with an emphasis on technology-based art and music.

ART 208. Special Projects. 3 sem. hrs.
Topics not taught in the regular curriculum. May be repeated for a maximum of 9 hours.

ART 210. Drawing II. 3 sem. hrs.
Continuation of Drawing I with emphasis on creative development of visual ideas using traditional and experimental techniques and media.
Prerequisite(s): ART 110.

ART 212. Ceramics. 3 sem. hrs.
Completion of ART 110, ART 130, and ART 131 is recommended before taking this course. Exploration of ceramics media and processes with emphasis on the development of individual concepts.

ART 216. Painting. 3 sem. hrs.
An introductory course designed to strengthen the individual student’s awareness of the history and techniques of the craft of painting while exposing the student to contemporary styles and ideas of painting.
Prerequisite(s): ART 110 or ART 130.

ART 218. Photography. 3 sem. hrs.
Study of photography and photographic processes employed as creative media. Basic black-and-white processing and printing.
Prerequisite(s): ART 110 or ART 130.

ART 220. Printmaking. 3 sem. hrs.
Survey of printmaking processes including intaglio, relief, screen print, and lithography.
Prerequisite(s): ART 110 or ART 130.

ART 222. Sculpture. 3 sem. hrs.
Introduction to basic sculptural skills - including plaster, wood, aluminum casting, direct construction, and various mixed materials and techniques - with emphasis on craftsmanship, content, and idea development.
Prerequisite(s): ART 131.

ART 224. Introduction To Digital Art I. 3 sem. hrs.
An introduction to computer-based art making, digital literacy, image processing, and digital printing.
Prerequisite(s): ART 110 or ART 130.

ART 251. Reboot/Remix. 3 sem. hrs.
This course examines contemporary art through its relationship to three familiar popular culture phenomena: gaming and simulated environments; popular music; graphic novels and comics.

ART 302. Color Theory & Application. 3 sem. hrs.
Course focuses on both analytical and intuitive understanding and application of color.
Prerequisite(s): ART 130.

ART 305. Aqueous Media. 3 sem. hrs.
Course focuses on contemporary styles, concepts, and ideas regarding the use of wet media.
Prerequisite(s): ART 210 or ART 216 or ART 220.

ART 309. Navigating The Art World. 3 sem. hrs.
The theory and history of the art institutions that shape artists' careers and practical strategies for sustainable creative opportunities beyond the degree. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ART 110 and ART 210 and ART 130 and ART 131 and ART 212 or ART 216 or ART 218 or ART 220 or ART 222 or ART 224.

ART 310. Figure Drawing. 3 sem. hrs.
Individual exploration of figurative forms in a variety of drawing media and processes.
Prerequisite(s): ART 110 and ART 130.

ART 311. Figurative Modeling. 3 sem. hrs.
Course offers students a chance to explore figurative ceramic modeling and sculpting as it relates to representing a likeness.

ART 312. Ceramics. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 212.

ART 313. Ceramics. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 312.

ART 314. Typography. 3 sem. hrs.
Further development of design methods and processes including typography, image processing, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224.

ART 315. Digital Layout and Production. 3 sem. hrs.
Further development of design methods and processes including grids, page layout, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224.

ART 316. Painting Composition. 3 sem. hrs.
The applied study of pictorial manipulation through color and design principles.
Prerequisite(s): ART 216.

ART 317. Painting Concepts. 3 sem. hrs.
A course designed to increase understanding of subject, meaning and context with the objective of making the transition between guided assignments and personal pursuits.
Prerequisite(s): ART 316.

ART 318. Photography. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 218.

ART 319. Photography. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 318.

ART 320. Printmaking. 3 sem. hrs.
Further exploration of intaglio and relief processes with emphasis on both technical and conceptual development.
Prerequisite(s): ART 220.

ART 321. Printmaking. 3 sem. hrs.
Further exploration of lithography and screen print processes with emphasis on both technical and conceptual development.
Prerequisite(s): ART 320.

ART 322. Sculpture. 3 sem. hrs.
Introduction to advanced sculptural thinking and problem solving with assignments geared toward the development of skills and abilities in working with a range of materials and techniques such as metal casting, fabrication, rubber, leather, wood, and stone fabrication.
Prerequisite(s): ART 222.

ART 323. Sculpture. 3 sem. hrs.
Continued development of 3-D thinking and technical skills through assignments addressing a variety of materials and processes, including physics in three dimensions, the illustration of intangible thoughts with physical objects, the relevance of self to sculpture, and an examination of personal aesthetic.
Prerequisite(s): ART 131 and ART 222 and ART 322.

ART 324. Digital Art. 3 sem. hrs.
Projects allow for individual approaches and further development of digital art methods and processes.
Prerequisite(s): ART 224.

ART 325. Monotype/Monoprint. 3 sem. hrs.
Introduction to printmaking using materials and methods based on the students' existing skills with acrylic and/or oil paint mediums.
Prerequisite(s): ART 316.

ART 326. Digital Art: The Narrative. 3 sem. hrs.
Students will explore contemporary structure of narrative (and conversely the non-narrative) by creating, producing, and sharing stories using computer-based tools.
Prerequisite(s): ART 224.

ART 328. Digital Photo. 3 sem. hrs.
This course will explore intermediate aspects of digital photography practice. The course has technical aesthetic and conceptual elements that will be expressed through demonstrations, lectures and assignments/projects. The course culminates with a professional portfolio.
Prerequisite(s): ART 218 and ART 224.

ART 329. Photo-Based Printmaking. 3 sem. hrs.
Printmaking using photographic techniques to create a variety of matrices, including intaglio and screen printing processes.
Prerequisite(s): ART 318.

ART 338. Photographic Studio Lighting. 3 sem. hrs.
The course will present foundational skills in photographic studio lighting. Both natural and artificial light sources will be explored for producing aesthetically and conceptually engaging artworks. A wide range of applications will be explored including still life, portraiture, classic lighting problems, and open creative projects. Experimentation and improvisation is highly encouraged. Topics will reference both historical precedents and contemporary practices. The course will culminate with a portfolio of work.
Prerequisite(s): ART 218 and ART 224.

ART 344. Concepts in Drawing. 3 sem. hrs.
This course covers drawing at the intermediate level, including media, form, content, and theory. This course emphasizes personal direction. This course is designed to encourage student investigation into experimental drawing and contemporary art practices. All topics will be devoted to promoting individual student creativity, mastery of drawing means and techniques, and a further understanding of graphic concerns.
Prerequisite(s) with concurrency: ART 110.

ART 380. Art Museum Practices. 3 sem. hrs.
An overview of art museum practices. Students acquire informed perspectives on the general operations, strategies, policies, and practices inherent in a small art museum.

ART 406. Independent Studies. 3 sem. hrs.
Students may make proposals for projects not taught in the regular curriculum. Proposals must be approved by a sponsoring faculty member and the department chairperson.

ART 408. Special Projects. 3-6 sem. hrs.
Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ART 409. Special Projects. 3-6 sem. hrs.
Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ART 410. Drawing Seminar. 3 sem. hrs.
Self-directed studio practice overseen by the instructor. The student works toward creating a consistent and conceptually sound body of work that investigates contemporary and traditional definitions of drawing.
Prerequisite(s): ART 310 or ART 308 or ART 312 or ART 313 or ART 314 or ART 315 or ART 316 or ART 317 or ART 318 or ART 319 or ART 320 or ART 321 or ART 322 or ART 323 or ART 325 or ART 330 or ART 324.

ART 412. Ceramics. 3-6 sem. hrs.
3 to 6 hours. Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 212 and ART 312 and ART 313.

ART 413. Ceramics. 3-6 sem. hrs.
3 to 6 hours. Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 412.

ART 414. Graphic Design. 3-6 sem. hrs.
3 to 6 hours. Preparation of a graphic design portfolio. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 314 or ART 315.

ART 415. Graphic Design Practicum. 3 sem. hrs.
Partnering agencies with design apprentices for hands-on training. Students are required to work no less than 10 hours per week.
Prerequisite(s): ART 414.

ART 416. Advanced Painting Seminar. 3-6 sem. hrs.
3 to 6 hours. Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 317.

ART 417. Advanced Painting Seminar. 3-6 sem. hrs.
3 to 6 hours. Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.

ART 418. Photography. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 318 and ART 319.

ART 419. Photography. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.
Prerequisite(s): ART 418.

ART 420. Printmaking. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 320 and ART 321.

ART 421. Printmaking. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.
Prerequisite(s): ART 420.

ART 422. Sculpture. 3-6 sem. hrs.
3 to 6 hours. Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 222 and ART 322 and ART 323.

ART 423. Sculpture. 3-6 sem. hrs.
3 to 6 hours. Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 422.

ART 424. Digital Art Seminar. 3-6 sem. hrs.
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 324 or ART 314 or ART 315.

ART 425. Digital Art Seminar. 3 sem. hrs.
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.

ART 428. Advanced Digital Photography. 3 sem. hrs.
The course will expand upon digital skills for the photographer / digital artist presented in Art 328. This course presents technical, aesthetic and conceptual concerns at an advanced level. Content will be delivered through lecture, demonstrations, workshops, and experiential learning. The primary emphasis is on student-driven production of fully realized artworks. There will be regular critiques to facilitate the creative process. There will be a survey of contemporary photo / digital artists to stimulate ideas, discussion and practices across numerous conceptual themes. The semester will culminate in the production of a final portfolio and works presented for exhibition.
Prerequisite(s): ART 328.

ART 444. Advanced Concepts in Drawing. 3 sem. hrs.
The objectives of this course are to explore the parameters of drawing in a personally directed way and in the broadest possible manner. We will be considering drawing as a visual language in which form and content are interdependent. The project(s) in this course will be overseen by the professor, but are largely self-directed in conception and,resolution. This is considered an advanced course and will include lecture, discussion, in- and out-of-class drawing, readings, and critique. This class is an active learning forum and you will be expected to speak in this class; the development of a lively and dynamic conversation is the collective responsibility of every student.
Prerequisite(s) with concurrency: ART 344.

Department of Biological Sciences

The Department of Biological Sciences offers three majors that culminate in baccalaureate degrees: biology, marine science/biology double major and microbiology. The department also offers minors in biology, microbiology and marine science.

Biology Major (BS)

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in biology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 120 applicable semester hours. The major offers three optional concentrations that are described under the Special Opportunities section below.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in biology requires the successful completion of the following 36 semester hours:

		Hours
Select one of the following:		4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
or		
BSC 118	Honors General Biology I	
Select one of the following:		4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	
or		
BSC 120	Honors Gen Biology II	
BSC 300	Cell Biology	3
BSC 315	Genetics	3
BSC 385	General Ecology	3
BSC 450 or	Fundamentals of Biochemistry	3
BSC 483	Evolution	
BSC or MS electives above 250 *		16
Total Hours		36

*Other BSC courses numbered 250 and above, including two laboratory courses from the following list of laboratory courses (also see the Additional Major Requirements section below):

BSC 312	Microbiology Lab	2
BSC 313	Gen Bacteriology Lab	3
BSC 320	Freshwater Studies	4
BSC 360	Plant Biology	4
BSC 373	Vertebrate Zoology	4
BSC 376	Invertebrate Zoology	4
BSC 386	General Ecology Lab	2
BSC 390	Honors Thesis Research	1-8
BSC 396	Resident Study	1-6
BSC 398	Undergraduate Research	1-4
BSC 400	Vertebrate Funct Morphol	4
BSC 414	Dendrology	3
BSC 425	Human Physiology Lab	2
BSC 428	Biology Of Fishes	4
BSC 432	Pathogenic Mibrobiol Lab	3
BSC 434	Plant Systematics	4
BSC 439	Bch/Molecular Biology Lab	3
BSC 442	Integrated Genomics	4
BSC 460	Human Developmental Biology	4
BSC 464	Biology Of Algae	4
BSC 469	Histology Of Vertebrates	4
BSC 472	Mycology	4
BSC 475	General Entomology	4
BSC 476	Aquatic Insects	4
BSC 490	Stream Ecology	4
MS 306	Marine Biology	4
MS 408	Marine Invertebrate Zoology	4
MS 411	Marsh Ecology	4
MS 419	Marine Ecology	4
MS 452	Marine Vertebrate Zoology	4
MS 453	Marine Botany	4

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in biology requires the successful completion of the following courses outside the major:

CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	

Required Minor

The biology major does not require a minor.

Additional Major Requirements

The department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. These courses include:

BSC 391	Tutorial In Biol Science	1-2
BSC 393	Biology Outreach	2
BSC 396	Resident Study	1-6
BSC 398	Undergraduate Research	1-4
BSC 399	Presentation of UG Research	2
BSC 403	Intro To Bsc Instruction	2
BSC 404	Honors Intro To Bsc Instruction	2
BSC 407	Honors Seminar In Bsc	1
MS 398	Undergraduate Research	1-4

Beyond specific restrictions listed for each course, a total of four hours from this group may be applied to the requirements of the biology major or minor. An additional four hours may be applied as electives to the requirement for 120 hours for the degree. BSC 409 Pre-Health Apprenticeship I is not applicable to the major in biology.

A maximum of 12 hours of 100-level biology courses (BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Biology II Laboratory, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College, and University requirements.

Prerequisites

Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C-.

Special Opportunities

The Department of Biological Sciences offers an abundance of special opportunities for students, including an honors program, a scholars program and a number of special areas of concentration.

Honors Program

The Biological Sciences Honors Program is available to students majoring in either biology or microbiology after the completion of 16 hours of biological science courses with at least a 3.4 cumulative grade point average, as well as in BSC courses. Admission into the program requires the approval of the Honors Program Committee and acceptance of the student by primary advisers and co-advisers. Requirements for the program include: four to eight hours of BSC 390 Honors Thesis Research, an acceptable honors thesis, attendance in BSC 407 Honors Seminar In Bsc, completion of the advanced portion of the Graduate Record Examination, and maintenance of at least a 3.4 GPA in BSC courses and a 3.4 or higher cumulative GPA. Additional details are available in the office of the Department of Biological Sciences.

Scholars Program

The Department of Biological Sciences also participates in the University Scholars Program that allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to the junior or senior year. For more information about the University Scholars Program, visit graduate.ua.edu or consult The University of Alabama graduate catalog.

Molecular/Biotechnology Biology Concentration

Students who are pursuing a major in biology and are interested in specialized biology can choose a sequence of courses in the molecular/biotechnology concentration. These students should choose the first two classes, BSC 439 Bch/Molecular Biology Lab and BSC 451 Molecular Biology, and other biology electives from the following courses:

BSC 439	Bch/Molecular Biology Lab	3
BSC 451	Molecular Biology	3
BSC 310	Microbiology	3
BSC 311	Gen Bacteriol & Physiol	3
BSC 312	Microbiology Lab	2

BSC 313	Gen Bacteriology Lab	3
BSC 435	Immunology	4
BSC 441	Developmental Biology	3
BSC 442	Integrated Genomics	4
BSC 444	General Virology	3

Ecology and Systematics Concentration

Students who are pursuing a major in biology and are interested in specialized biology can choose a sequence of courses in the ecology and systematics concentration. These students should choose the biology electives from the following courses:

		Hours
BSC 360	Plant Biology	4
BSC 373 or	Vertebrate Zoology	4
BSC 376	Invertebrate Zoology	
Select one of the following:		2-4
BSC 303	Field Zoology	
BSC 320	Freshwater Studies	
BSC 412	Limnology	
BSC 415	Wetland Ecology	
BSC 417	Environmental Modeling	
BSC 420	Principles Of Systematics	
BSC 434	Plant Systematics	
BSC 456	Microbial Ecology	
BSC 464	Biology Of Algae	
BSC 480	Plant Ecology	
BSC 482	Conservation Biology	
BSC 490	Stream Ecology	
Total Hours		10-12

Health Professions Concentration

Students who are pursuing a major in biology and are interested in a career in health professions such as medicine, dentistry, optometry pharmacy or veterinary medicine can choose a sequence of courses in the health professions concentration. The concentration also provides in-depth exposure to subject material found on the MCAT, DAT and OAT. These students should choose the biology electives from the following courses:

BSC 310	Microbiology	3
BSC 312	Microbiology Lab	2
BSC 400	Vertebrate Funct Morphol	4
BSC 409	Pre-Health Apprenticeship I	2
BSC 410	Pre-Health Apprenticeship II	2
BSC 424	Human Physiology	3
BSC 425	Human Physiology Lab	2
BSC 431	Pathogenic Microbiology	3
BSC 432	Pathogenic Mibrobiol Lab	3
BSC 435	Immunology	4
BSC 449	Endocrinology	3
BSC 450	Fundamentals of Biochemistry	3
BSC 460	Human Developmental Biology	4
BSC 469	Histology Of Vertebrates	4

Microbiology Major (BMB)

Degree Requirements

Students earning the bachelor of science in microbiology (BMB) degree must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama. The department recommends that students declare a microbiology major as soon as possible.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in microbiology requires the successful completion of the following 47 semester hours:

		Hours
Select one of the following:		4
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	
BSC 118	Honors General Biology I	
Select one of the following:		4
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	
BSC 120	Honors Gen Biology II	
BSC 300	Cell Biology	3
BSC 310	Microbiology	3
BSC 312	Microbiology Lab	2
BSC 311	Gen Bacteriol & Physiol	3
BSC 313	Gen Bacteriology Lab	3
BSC 439	Bch/Molecular Biology Lab	3
BSC 450	Fundamentals of Biochemistry	3
BSC 451	Molecular Biology	3
BSC electives 300 or 400 level *		16
Total Hours		47

*Other BSC courses must be selected from the following:

BSC 390	Honors Thesis Research	1-8
BSC 391	Tutorial In Biol Science	1-2
BSC 398	Undergraduate Research	1-4
BSC 431	Pathogenic Microbiology	3
BSC 432	Pathogenic Mibrobiol Lab	3
BSC 435	Immunology	4
BSC 444	General Virology	3
BSC 456	Microbial Ecology	3
BSC 464	Biology Of Algae	4
BSC 472	Mycology	4
BSC 497	Special Topics	1-4

*These hours must include two laboratories to be selected from:

BSC 390	Honors Thesis Research	1-8
BSC 398	Undergraduate Research	1-4
BSC 432	Pathogenic Mibrobiol Lab	3
BSC 464	Biology Of Algae	4
BSC 472	Mycology	4

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in microbiology requires the successful completion of the following courses outside the major:

		Hours
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
MATH 125 or	Calculus I	4

MATH 145	Honors Calculus I	
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	

Required Minor

The microbiology major does not require a minor.

Additional Major Requirements

Departmental limits on credit for enrichment courses apply to the requirements for the microbiology major and minor. A maximum of 12 hours of 100-level biology courses may be applied to degree requirements. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

A maximum of 12 hours of 100-level biology courses (BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Biology II Laboratory, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements.

Prerequisites

Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C-.

Special Opportunities

The Biological Sciences Honors Program is available to students majoring in either biology or microbiology after the completion of 16 hours of biological science courses with at least a 3.4 cumulative grade point average, as well as in BSC courses. Admission into the program requires the approval of the Honors Program Committee and acceptance of the student by primary advisers and co-advisers. Requirements for the program include: four to eight hours of BSC 390 Honors Thesis Research , an acceptable honors thesis, attendance in BSC 407 Honors Seminar In Bsc, completion of the advanced portion of the Graduate Record Examination, and maintenance of at least a 3.4 GPA in BSC courses and a 3.4 cumulative GPA. Additional details are available in the office of the Department of Biological Sciences.

The Department of Biological Sciences also participates in the University Scholars Program that allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to their junior or senior year. For more information about the University Scholars Program, visit graduate.ua.edu or consult The University of Alabama graduate catalog.

Biology Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the "Change of Major/Minor Application" online under the "Student" tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Office of University Registrar explanation of grade point average calculations.

Minor Courses

The minor in biology requires the successful completion of the following 22 semester hours:

		Hours
Select one of the following:		4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
or		
BSC 118	Honors General Biology I	
Select one of the following:		4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	
or		
BSC 120	Honors Gen Biology II	
BSC electives 300 or 400 level		6
BSC elecives 200 level or above		8
Total Hours		22

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

No more than 4 hours earned in BSC enrichment courses may be applied to the minor. Enrichment courses are the following:

BSC 391	Tutorial In Biol Science	1-2
BSC 393	Biology Outreach	2
BSC 396	Resident Study	1-6
BSC 398	Undergraduate Research	1-4
BSC 399	Presentation of UG Research	2
BSC 403	Intro To Bsc Instruction	2
BSC 404	Honors Intro To Bsc Instruction	2
BSC 407	Honors Seminar In Bsc	1
MS 398	Undergraduate Research	1-4

NOTE: BSC 409 Pre-Health Apprenticeship I and BSC 410 Pre-Health Apprenticeship II are not applicable to the minor in biology.

A maximum of 12 hours of 100-level biology courses (BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118 or BSC 120) may be applied to degree requirements.

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college and University requirements.

Prerequisites

Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C-.

Microbiology Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in microbiology requires the successful completion of the following 22 semester hours:

		Hours
BSC 300	Cell Biology	3
BSC 310	Microbiology	3
BSC 311	Gen Bacteriol & Physiol	3
BSC 312	Microbiology Lab	2
BSC 313	Gen Bacteriology Lab	3
BSC 450	Fundamentals of Biochemistry	3
BSC 451	Molecular Biology	3
Total Hours		20

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not specify ancillary courses, but prerequisites for required courses include the following (or permission of the instructor):

		Hours
Select one of the following:		4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
or		
BSC 118	Honors General Biology I	
Select one of the following:		4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	
or		
BSC 120	Honors Gen Biology II	
CH 232	Elem Organic Chem II (or permission of the instructor)	3
Total Hours		11

Additional Minor Requirements

Departmental limits on credit for enrichment courses apply to the requirements for the microbiology major and minor. Students are not permitted to count the same required minor courses toward completion of a major or second minor. Students may count required ancillary courses toward other requirements. A maximum of 12 hours of 100-level biology courses (BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Biology II Laboratory, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Natural Resources Minor

The natural resources minor has been developed for students interested in the guiding principles of land stewardship and economic sustainability. Students can develop an appreciation for the ecological diversity of Alabama and gain an understanding of the historical importance of natural resources in the economic development of Alabama. Courses in the minor will address the impact of changes in life styles and the economic base of the state as well as the implications for land management.

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in natural resources requires the successful completion of the following 21-22 semester hours:

NRS Track for Biology Majors

		Hours
The following courses are required:		10
BSC 340	Principles of Natural Resources Conservation	
BSC 497	Special Topics (Forestry)	
GY 489	Forest Ecology Veg Analy	
Practicum Courses		2
BSC 4xx: Biological Sciences Internships		
Natural Resources Policy, Planning, and Economics		9
BSC 482	Conservation Biology	
GY 351	Geography Of Alabama	
GY 339	Natural Resource Envirmn Plang	
Total Hours		21

NRS Track for Non-Biology Majors

		Hours
The following courses are required:		
Foundation Courses		14
BSC 114	Principles Of Biology I	
BSC 115	Laboratory Biology I	
BSC 116	Principles Biology II	
BSC 117	Biology II Laboratory	
BSC 340		
BSC 385	General Ecology	
Select 1 of the following courses:		
Specialty Courses		3
BSC 303	Field Zoology	
BSC 414	Dendrology	
BSC 415	Wetland Ecology	
BSC 428	Biology Of Fishes	
BSC 475	General Entomology	
BSC 480	Plant Ecology	
GY 472	Soil Science	
GY 489	Forest Ecology Veg Analy	
GY 492	Eastern Forest Communities	
Select from 1 of the following courses:		
Practicum Courses		2
BSC 386	General Ecology Lab	
BSC 398	Undergraduate Research	
BSC 4XX		
GY 483	Environment Science Internship	
GY 494	Forest Measurement and Analysis	
Natural Resources Policy, Planning, and Economics		3
BSC 482	Conservation Biology	
BSC 497	Special Topics	
EC 480	Econ Of Environment	
GY 339	Natural Resource Envirmn Plang	
GY 351	Geography Of Alabama	
GY 409	Forest History and Restoration	
GY 452	Environ Decision Making	
GY 460	Environmental Management	
NEW 230	Environmental Studies	
Total Hours		22

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Prerequisites for all BSC courses at the 300-level and 400-level must be passed with a grade of at least C-.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Chair and professor

Sobecky, Patricia

Professors

Caldwell, Guy

Findlay, Robert

Francko, David A.

Huryn, Alexander

Leblanc, Paul A.

O'Donnell, Janis M.

Powell, Martha J.

Sloan, Gary L.

Stephenson, Edwin C.

Ward, Amelia K.

Ward, Grover

Associate professors

Benstead, Jon

Caldwell, Kimberlee

Churchill, Perry

Harris, Phillip

Heath, Harry E.

Johnson, Margaret

Lopez-Bautista, Juan

Marcus, Stevan

Olson, Julie B.

Ramonell, Katrina

Rissler, Leslie

Secor, Stephen M.

Staudhammer, Christina

Assistant professors

Cherry, Julia A.

Clark, John

Duffy, Carol L.

Earley, Ryan

Edmonds, Jennifer W.

Graf, Daniel

Howeth, Jennifer

Jenny, Matthew J.

Lozier, Jeff

Mortazavi Behzad Deug

Rasco, Jane

Reed, Laura

Starr, Gregory

Yoder, John H.

Courses

BSC 108. Intro Biology Non Maj I. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120). Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 109. Intro Biology Non Maj II. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, or to pre-health professions students. Study of the physiology of living organisms with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. Usually offered fall, spring and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 114. Principles Of Biology I. 3 sem. hrs.
For biology majors, biology minors and pre-health professions students. Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics evolution; and a survey of simple organisms, including viruses, bacteria, protista and fungi. Offered fall, spring and summer. NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 115. Laboratory Biology I. 1 sem. hr.
Prerequisite(s): BSC 114
Prerequisite(s) with concurrency: BSC 114.

BSC 116. Principles Biology II. 3 sem. hrs.
For biology majors, biology minors, and pre-health professions students. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer. NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.
Prerequisite(s): BSC 114 and BSC 118.

BSC 117. Biology II Laboratory. 1 sem. hr.
Prerequisite(s) with concurrency: BSC 116.

BSC 118. Honors General Biology I. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of general biological principles, including the chemical basis of life, cellular biology, genetics, evolution, and a survey of prokaryotic organisms.

BSC 120. Honors Gen Biology II. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of the structure, function, physiology, and ecology of organisms, including higher and lower plants and vertebrates and invertebrate animals.
Prerequisite(s): (BSC 114 OR BSC 118) AND BSC 115.

BSC 215. Human Anatomy & Physiology I. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes cellular aspects; tissues and skin; the skeletal, muscular, nervous and endocrine systems; and the special senses of sight, hearing, taste, and smell.
Prerequisite(s): BSC 108 or BSC 109 or BSC 118 or BSC 120 or BSC 114 and BSC 115; or BSC 116 and BSC 117; or CH 102 or CH 105 or CH 118.

BSC 216. Human Anatomy & Physiology II. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes the respiratory, circulatory, digestive, urinary, and reproductive systems.
Prerequisite(s): BSC 215.

BSC 220. Biol Evol. 3 sem. hrs.
An introductory course on the evidence for evolution, mechanisms of evolutionary change, natural and sexual speciation, and common misconceptions about evolution.

BSC 242. Microbiology And Man. 4 sem. hrs.
For students majoring in nursing, education, and human environmental sciences. Lecture and laboratory. Introduction to microbiology with an emphasis on the relationships between man and protozoa, bacteria, viruses, and fungi. NOTE: Credit will not be granted for both BSC 242 and BSC 310.
Prerequisite(s): CH 101 or CH 104 or CH 117; and CH 102 or CH 105 or CH 118; and BSC 108 or BSC 109 or BSC 114 or BSC 118 or BSC 215 or BSC 216.

BSC 300. Cell Biology. 3 sem. hrs.
The course is designed to provide an understanding of the molecular basis of cell function. Topics include metabolism, gene control, cell membranes, and cell-to-cell signaling.
Prerequisite(s): BSC 114 or BSC 118; and CH 102 or CH 118.

BSC 303. Field Zoology. 3 sem. hrs.
A field-based course with lecture and lab combined. A survey of the taxonomy, ecology, and identification of local biota. Offered irregularly.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 310. Microbiology. 3 sem. hrs.
Lecture and laboratory. Survey course on microorganisms, including protozoa, bacteria, viruses, fungi, and algae. Credit will not be granted for both BSC 310 and BSC 242.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and CH 231.

BSC 311. Gen Bacteriol & Physiol. 3 sem. hrs.
Fundamental course in bacteriology with emphasis on bacterial morphology, physiology, nutrition, and genetics.
Prerequisite(s): BSC 310 and CH 232.

BSC 312. Microbiology Lab. 2 sem. hrs.
General microbiology laboratory to accompany BSC 310.
Prerequisite(s): BSC 310
Prerequisite(s) with concurrency: BSC 310.

BSC 313. Gen Bacteriology Lab. 3 sem. hrs.
Lecture and laboratory. Course presents methods for the isolation, microscopic observation, enumeration, and determination of the biochemical characteristics of bacteria.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 311.

BSC 315. Genetics. 3 sem. hrs.
Study of transmission and function of genes, gene organization, regulation of prokaryotic and eukaryotic genes, and applications of genetics. NOTE: Credit will not be granted for both BSC 309 and BSC 315.
Prerequisite(s): BSC 114 or BSC 118; and CH 101 or CH 117; and CH 102 or CH 118.

BSC 320. Freshwater Studies. 4 sem. hrs.
Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 325. Tropical Plant Diversity. 4 sem. hrs.
The purpose of this course is to familiarize students with the relevant aspects of tropical ecosystems and tropical plants.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120; and BSC 117.

BSC 340. Principles of Natural Resources Conservation. 3 sem. hrs.
Introduces students to basic principles of natural resources conservation, including fundamental concepts in natural resource conservation and management. Examines humanity's past and present impacts on world environments; the influence of culture and the wants, needs, and desires of human beings will be integrated into the material. Discusses conservation of natural resources, including soil, water, air, forests, rangelands, energy, wildlife and fisheries, based on scientific principles.
Prerequisite(s): (BSC 114 and BSC 115 or BSC 118) OR (BSC 116 and BSC 117 or BSC 120).

BSC 360. Plant Biology. 4 sem. hrs.
Lecture and laboratory. Introduction to the biology of embryophytes with emphasis on their development, evolution, and ecology.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 373. Vertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. Introductory course in the study of vertebrate zoology. Subjects included are principles of systematics and nomenclature, a survey of vertebrate taxa, the species concept, analysis of taxonomic characters, and an introduction to zoogeography and behavior.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 376. Invertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. The classification, morphology, evolution, and ecology of invertebrate animals.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 380. Introduction to probability and statistics for biologists. 3 sem. hrs.
This course will provide an introduction to probability and statistical methods that are commonly used in the biological sciences. Practical, real-world examples from biology, ecology, and natural resources management will be used throughout the course. This course is aimed at 300-level students who intend to work with biological data, or anyone interested in statistics. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 125 or MATH 145 and CS 102.

BSC 385. General Ecology. 3 sem. hrs.
A study of the general principles of ecology, covering evolution, autoecology, energetics, nutrient cycling, population dynamics, competition, predation, and community analysis.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145; and BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 386. General Ecology Lab. 2 sem. hrs.
Offered irregularly.
Prerequisite(s): BSC 385
Prerequisite(s) with concurrency: BSC 385.

BSC 390. Honors Thesis Research. 1-8 sem. hr.
Individual research conducted under the direction of an advisor and reported in an acceptable thesis. May be repeated over two to four semesters for a maximum 8 hours.
Prerequisite(s): BSC 315 and BSC 300 and BSC 385BSC 116 and BSC 117; or BSC 120.

BSC 391. Tutorial In Biol Science. 1-2 sem. hr.
Survey of the literature relating to a topic approved by the supervising faculty member; not to include laboratory or field research. A formal paper and/or examination is required. May be taken for one credit hour in each of two consecutive semesters, or for one or two credit hours in any one semester. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 393. Biology Outreach. 2 sem. hrs.
Outreach course that includes survey of the literature relating to a topic approved by instructor. Design of active learning projects to emphasize a basic biological concept and teaching basic science concepts to elementary students.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 396. Resident Study. 1-6 sem. hr.
Prerequisite: Written approval from the department office prior to registration. Credit awarded is determined by the extent of the student's participation but may not exceed 6 hours.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 398. Undergraduate Research. 1-4 sem. hr.
Independent research or research participation. A maximum of 4 hours credit for BSC 398 may be applied to the requirements of the biology and microbiology majors; an additional 4 hours may be taken as elective credit and applied to the 120-hour requirement.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 399. Presentation of UG Research. 2 sem. hrs.
Exploration of the process of presenting research results in different written formats including: abstract, poster, and full journal article. How the needs for clear presentation and response to peer review can inform the experimental process will also be covered.
Prerequisite(s): BSC 398.

BSC 400. Vertebrate Funct Morphol. 4 sem. hrs.
Recommended for pre-health professions students. Lecture and laboratory. The comparative anatomy of the vertebrates with emphasis on functional features of several vertebrate species. Laboratory work deals mainly with identifying anatomical features of several vertebrate species.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 403. Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, formal application, and a satisfactory interview.
Prerequisite(s): BSC 120 or BSC 114 and BSC 115 and BSC 116 and BSC 117.

BSC 404. Honors Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, Honors attribute, formal application, and a satisfactory interview.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; and BSC 116 and BSC 117; or BSC 120.

BSC 407. Honors Seminar In Bsc. 1 sem. hr.
Seminar and discussion. In the first semester, students present seminars based on the current literature. In the second semester, students present seminars derived from their honors theses. A maximum of 4 hours of credit for BSC 407 may be applied to the requirements of the biology or microbiology major. Offered according to demand.

BSC 409. Pre-Health Apprenticeship I. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 410. Pre-Health Apprenticeship II. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 412. Limnology. 3 sem. hrs.
Study of freshwater environments and the organisms that live in lakes, ponds, and streams. May be taken with BSC 413 or separately.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 414. Dendrology. 3 sem. hrs.
Lecture and laboratory. Identification, classification, characteristics, and distribution of the principal forest trees of the United States. Two weekend field trips are required. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 415. Wetland Ecology. 3 sem. hrs.
An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat and plant zonation, and the role of plants in ecosystem function. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 417. Environmental Modeling. 3 sem. hrs.
An integrated study of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving.
Prerequisite(s): MATH 125 and CH 101 or CH 117; and CH 102 or CH 118 and BSC 385.

BSC 420. Principles Of Systematics. 4 sem. hrs.
Introduction to the principles, methods, and applications of systematics to analysis of morphological and molecular data. Includes introduction to biological classifications and nomenclature.
Prerequisite(s): BSC 360 or BSC 373 or BSC 376 or BSC 483.

BSC 424. Human Physiology. 3 sem. hrs.
Topics covered are the digestive, nervous, reproductive, immune, muscular, blood, cardiovascular, respiratory, urinary, and body-fluid systems. May be taken with BSC 425 or separately.
Prerequisite(s): BSC 300.

BSC 425. Human Physiology Lab. 2 sem. hrs.
Hands-on experience for understanding the principles and mechanisms of physiological processes of the human body. Major emphases on organ system performance, whole-body metabolism, and energetics.
Prerequisite(s): BSC 424
Prerequisite(s) with concurrency: BSC 424.

BSC 428. Biology Of Fishes. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 431. Pathogenic Microbiology. 3 sem. hrs.
Study of microorganisms related to health and disease with emphasis on molecular mechanism of pathogenesis. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 432. Pathogenic Mibrobiol Lab. 3 sem. hrs.
Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered in alternate years.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 431.

BSC 434. Plant Systematics. 4 sem. hrs.
Lecture and laboratory. Characteristics and distribution of the major families of vascular plants as well as practice in the collection and identification of flowering plants. One weekend field trip required. Offered in alternate years.
Prerequisite(s): BSC 360.

BSC 435. Immunology. 4 sem. hrs.
Thorough exploration of various aspects of modern immunology at the molecular and cellular levels.
Prerequisite(s): BSC 310.

BSC 436. Immunology Laboratory. 3 sem. hrs.
Practical experience in modern immunological techniques. Offered in alternate years.
Prerequisite(s): BSC 435
Prerequisite(s) with concurrency: BSC 435.

BSC 439. Bch/Molecular Biology Lab. 3 sem. hrs.
Students participate in the generation of new knowledge, thus the experiments vary. Techniques taught include agarose gel electrophoresis, cycle sequencing, sequence analysis, plasmid purification, restriction endonuclease digestion, gel purification of DNA, ligation, transformation, primer design, PCR, gene knockouts, protein fusions, and enzyme assays.
Prerequisite(s): BSC 450.

BSC 441. Developmental Biology. 3 sem. hrs.
The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development.
Prerequisite(s): BSC 300 and BSC 315.

BSC 442. Integrated Genomics. 4 sem. hrs.
An advanced discovery-based laboratory course designed to introduce the process of gene discovery and integrate modern genomics techniques and bioinformatic database usage.
Prerequisite(s): BSC 300 and BSC 315
Prerequisite(s) with concurrency: BSC 315.

BSC 444. General Virology. 3 sem. hrs.
A survey of viruses, viral replication, and viral pathogenesis, including bacterial, animal, and plant viruses. The role of viruses in molecular biology is emphasized.
Prerequisite(s): BSC 300 or BSC 310.

BSC 448. Animal Behavior. 3 sem. hrs.
This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology and economics. However there will be a historical undercurrent which will illustrate the roots of this truly interdisciplinary field.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120; and BSC 385.

BSC 449. Endocrinology. 3 sem. hrs.
A detailed examination of the vertebrate endocrine system that uses a comparative approach to explore intricate relationships between the brain, endocrine glands, hormones and target organs.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 450. Fundamentals of Biochemistry. 3 sem. hrs.
A one-semester survey of protein structure, enzymes, bioenergetics, metabolism and its regulation. Designed for advanced undergraduate students.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120 or ; and BSC 117 and CH 232.

BSC 451. Molecular Biology. 3 sem. hrs.
A one-semester survey of molecular biology that emphasizes gene structure, function, and regulation of expression. Offered spring semester.
Prerequisite(s): BSC 311 or BSC 315; and BSC 450; and CH 462 or.

BSC 456. Microbial Ecology. 3 sem. hrs.
Study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions.
Prerequisite(s): BSC 310 or BSC 385.

BSC 460. Human Developmental Biology. 4 sem. hrs.
Lecture and laboratory. Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis, and functional development. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 464. Biology Of Algae. 4 sem. hrs.
Lecture and laboratory. Freshwater and marine algae: their structure, development, taxonomy, and distribution.
Prerequisite(s): BSC 360 or BSC 310.

BSC 465. Prin Of Toxicology. 3 sem. hrs.
The study of adverse effects of chemicals on living organisms and methods for predicting the likelihood of such effects, including descriptive, mechanistic, and regulatory aspects.
Prerequisite(s): BSC 300 and BSC 315.

BSC 469. Histology Of Vertebrates. 4 sem. hrs.
Lecture and laboratory. Identification of tissue types and components, histogenesis and function of tissues.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 471. Plant Physiology. 3 sem. hrs.
A general survey for upper-level undergraduate students covering all aspects of plant physiology including plant transport, translocation of sugars in plants, plant biochemistry, plant metabolism, plant growth and development, photosynthesis, nitrogen fixation, flowering and plant hormones. The course will consist of lectures, in-class experiments, group discussions, presentations and other activities relating to course material.
Prerequisite(s): BSC 300 and BSC 360.

BSC 472. Mycology. 4 sem. hrs.
Lecture and laboratory. Introduction to the fungi and their biology, including aspects of their structure and function, taxonomy, genetics, and ecology. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 475. General Entomology. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, classification, and habits of insects.
Prerequisite(s): BSC 385.

BSC 476. Aquatic Insects. 4 sem. hrs.
Lecture and laboratory. Survey of aquatic insects with emphasis on their identification, life histories, and ecology. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 480. Plant Ecology. 3 sem. hrs.
This course will examine the ecology of plants at different levels: individual, population and community.
Prerequisite(s): BSC 385 and BSC 360.

BSC 482. Conservation Biology. 3 sem. hrs.
A thorough examination of the principles of conservation biology.
Prerequisite(s): BSC 385.

BSC 483. Evolution. 3 sem. hrs.
Thorough investigation of evolution, including population genetics, molecular evolution, adaptation, and speciation. Offered in the spring semester.
Prerequisite(s): BSC 385 and BSC 315.

BSC 484. Aquatic Biology Seminar. 1 sem. hr.
Review and discussion of current topics in aquatic biology.
Prerequisite(s): BSC 320 and BSC 385; and BSC 412 or BSC 490.

BSC 487. Biogeography. 3 sem. hrs.
Examination of the ecological and historical factors influencing the geographic distribution of plants and animals. Offered alternate years.
Prerequisite(s): BSC 385.

BSC 490. Stream Ecology. 4 sem. hrs.
Lecture and laboratory. Thorough study of the structural (physical and biological) and functional attributes (energy flow, nutrient cycling, community structure) characteristic of stream and river ecosystems. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 497. Special Topics. 1-4 sem. hr.
A biological sciences topic not covered in other courses. The credit hours and format are determined as appropriate to the topic, and a course title is added to the schedule of classes. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

Blount Undergraduate Initiative

Endowed by Winton and Carolyn Blount and assisted by many other donors, the Blount Undergraduate Initiative is a four-year program that offers students in the College of Arts and Sciences a unique opportunity for an enriched undergraduate liberal arts education in a lively and enjoyable community of scholars. All entering freshmen in the College of Arts and Sciences, regardless of their academic interests, are eligible to apply for admission. With courses and other activities, the program emphasizes the connectedness of knowledge and the importance of faculty-student learning partnerships.

Blount Liberal Arts Minor

Admission into the Minor

Only students admitted to the Blount Undergraduate Initiative can pursue the Blount liberal arts minor. Students are expected to declare a minor formally. With the assistance of the director of the Blount Undergraduate Initiative, students should complete the Declaration of Minor form no later than the fourth semester of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The Blount liberal arts minor requires the successful completion of the following 17–20 semester hours:

Courses*		Hours
BUI 100	Convocation	2
BUI 101	Foundation: Origins	3
BUI 102	Foundation: Possibilities	3
BUI 301	Thematic Seminar	6-9
BUI 401	Blount Capstone Worldviews	3
Total Hours		17-20

* A maximum of 3 hours of Blount coursework may be applied toward another major or minor, reducing the number of hours required for the minor to 17.

Upper-level Residency

A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Courses

BUI 100. Convocation. 1 sem. hr.
Experiences to extend and complement the Blount Undergraduate Initiative foundation courses. May be repeated once for credit.

BUI 101. Foundation: Origins. 3 sem. hrs.
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

BUI 102. Foundation: Possibilities. 3 sem. hrs.
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on significant issues in the discourse on human possibilities.

BUI 301. Thematic Seminar. 3 sem. hrs.
A text-centered study of one of the core problems that define the history of ideas in the liberal arts. May be repeated for a maximum of 12 hours.

BUI 401. Blount Capstone Worldviews. 3 sem. hrs.
An examination of the "worldviews" of various epochs and the completion of a senior project. Students learn how individual beliefs about what is actual, what is possible, and what is desirable can be combined into a single unified understanding of the world, and how such a worldview has implications for what we should do and how we should live.

Department of Chemistry

The Department of Chemistry offers a major in chemistry culminating in a bachelor of science in chemistry (BCh) degree or a bachelor of science (BS) degree. The BCh degree is American Chemical Society-certified (ACS-certified) and consists of two tracks: chemistry and biochemistry. The BS degree with a major in chemistry is not ACS-certified and is designed primarily for students pursuing health professions. The department also offers a minor in chemistry.

Chemistry Major (BCh)

Degree Requirements

Students earning the bachelor of science in chemistry (BCh) degree must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements chosen from one of two tracks, and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Degree Tracks

The ACS-certified degree tracks in chemistry and biochemistry provide thorough preparation for students interested in pursuing careers in chemistry, biochemistry or related fields (e.g., biomedicine, forensics, toxicology and environmental science); pursuing graduate studies in chemistry or related fields; or enrolling in a health professions school (MD, DDS, PharmD or DVM) upon graduation.

Major Courses

The major in chemistry BCh degree requires the successful completion of one of the following tracks for 41 or 43 semester hours:

Chemistry Track		Hours
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
CH 338	Elem Organic Chem Lab II	2
CH 341	Physical Chemistry	3
CH 342	Physical Chemistry	3
CH 348	Physical Chemistry Lab	2
CH 413	Inorganic Chemistry	4
CH 424	Instrumental Analysis	4
CH 461	Biochemistry I	3
Total Hours		41

Biochemistry Track		Hours
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
CH 338	Elem Organic Chem Lab II	2
CH 341	Physical Chemistry	3
CH 342	Physical Chemistry	3
CH 348	Physical Chemistry Lab	2
CH 413	Inorganic Chemistry	4
CH 461	Biochemistry I	3
CH 462	Biochemistry II	3
CH 463	Biochem-Clin/Foren/Chem	3
Total Hours		43

Upper-level Residency

A minimum of 18 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in chemistry culminating in the BCh degree requires the successful completion of the following courses outside the major:

MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
PH 105 or	General Physics W/Calc I	4
PH 125	Honors Gen Ph W/Calculus	
PH 106 or	Generl Physics W/Calc II	4
PH 126	Honors Gen Ph W/Calculus	

Required Minor

The BCh degree (both chemistry and biochemistry tracks) does not require a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department of Chemistry Honors Program is available to students pursuing either of the ACS-certified bachelor of science in chemistry tracks. To participate in the chemistry honors program, students must complete the course requirements for either track in the ACS-certified bachelor of science in chemistry degree:

- Maintain a 3.30 GPA in chemistry courses, with no more than one C, and a 3.0 cumulative GPA.
- Participate in CH 491 Honors Research Sem , CH 492 Honors Research Sem, CH 493 Honors Research Sem, CH 494 Honors Research Sem, honors research seminars and research courses.
- Submit an acceptable senior thesis based on research conducted under the supervision of a chemistry department faculty member.
- Submit scores on the Graduate Record Examination or other appropriate examinations prior to graduation.

Students are invited to apply for admission to the honors program in chemistry on the basis of performance in introductory chemistry courses. Contact the chemistry department director of undergraduate studies for more details.

The department sponsors several student organizations, including the Student Affiliates of the American Chemical Society, the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, and Gamma Sigma Epsilon (the national chemistry honorary). Gamma Sigma Epsilon aims to recognize academic performance by chemistry majors, promote an interest in chemistry among students and the community, and foster a feeling of fellowship among its members. To be eligible for membership, students must be completed with or near completion of their second year of chemistry courses, as well as having maintained a minimum 3.3 cumulative GPA and a 3.3 GPA in all chemistry courses. Applications for membership are generally accepted in the spring semester.

Pre-health Professional Preparation

Students completing any of the chemistry major tracks or the minor in chemistry will have fulfilled all chemistry, math and physics requirements for admission to pre-health professional programs (medical, dental, optometry, pharmacy, veterinary, etc., schools). With the addition of appropriate biological sciences electives, students earning the BCh degrees will have met all math and science requirements for pre-health professional programs.

Undergraduate Research

The Department of Chemistry offers two undergraduate research courses designed to provide students with a hands-on experience at the forefront of chemistry. These courses include:

		Hours
CH 396 & CH 398	Undergrad Research and Undergrad Research	2-6
CH 396 & CH 399	Undergrad Research and Undergrad Research	2-6
CH 497 & CH 498	Intro To Research and Intro To Research	2-6
CH 497 & CH 499	Intro To Research and Intro To Research	2-6
Total Hours		8-24

In each course, students work directly with a faculty member on a research project. Chemistry majors, minors and students with an interest in chemistry are encouraged to become involved in undergraduate research through these courses. Students should receive approval from the faculty mentor before registering for a research course. Students may find descriptions of faculty research interests on the Department of Chemistry website. Students may contact potential research mentors directly or seek advice on possible mentors from their academic advisers.

Chemistry Major (BS)

The Pre-health Professional Track is suitable for students who are primarily interested in attending a health professional school upon graduation. The major in chemistry (BS) may provide less flexibility in pursuing career options in chemistry and other scientific fields.

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in chemistry must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all

requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in chemistry requires the successful completion of the following 35 semester hours:

		Hours
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
CH 338	Elem Organic Chem Lab II	2
CH 340 & CH 343	Elem Physical Chem and Elem Phy Chem Lab	4
CH 461	Biochemistry I	3
CH 462	Biochemistry II	3
CH 463	Biochem-Clin/Foren/Chem	3
Total Hours		35

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in chemistry culminating in the BS degree requires the successful completion of the following courses outside the major:

Select one of the following:		4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
OR		
BSC 118	Honors General Biology I	
Select one of the following:		
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	4
OR		
BSC 120	Honors Gen Biology II	4
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	

Required Minor

The major in chemistry (BS) degree requires a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

Students pursuing this track may participate in Student Affiliates of the American Chemical Society, the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, and Gamma Sigma Epsilon, as well as the pre-medical organizations.

Chemistry Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in chemistry requires the successful completion of the following 24 semester hours:

		Hours
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
CH 340 & CH 343	Elem Physical Chem and Elem Phy Chem Lab	4
Total Hours		24

Upper-level Residency

A minimum of six hours in the minor must be earned on this campus, including four hours in 300- and 400-level chemistry courses.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The minor in chemistry requires the successful completion of the following courses outside the minor:

Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Chair and Associate Professor

Shaughnessy, Kevin H.

Professors

Blackstock, Silas C.

Metzger, Robert M.

Nikles, David E.

Thrasher, Joseph S.

Timkovich, Russell

Vincent, John B.

MINT Professor

Gupta, Arunava

Robert Ramsay Professors

Dixon, David A.

Rogers, Robin D.

Saxon Professor

Arduengo, Anthony

Associate Professors

Bakker, Martin G.

Bowman, Michael K.

Cassady, Carolyn J.

Jennings, Michael P.

Shaughnessy, Kevin H.

Snowden, Timothy S.

Street, Shane C.

Szulczewski, Gregory J.

Woski, Stephen A.

Busenlehner, Laura S.

Frantom, Patrick

Goebbert, Daniel

Pan, Shanlin

Courses

CH 101. General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 101 and CH 107 or for both CH 101 and CH 117. A survey of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): MAPL of 467 or higher or ACT of 24 or higher or SAT of 560 or higher or MATH 100 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 100 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

CH 102. General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 102 and CH 105 or both CH 102 and CH 108. Continuation of CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 101 or CH 117.

CH 104. Introductory Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. The course is primarily for students in the Capstone College of Nursing and the College of Human Environmental Sciences; it may not be substituted for CH 101 except with departmental permission. Degree credit is not awarded for both CH 104 and CH 107. An introductory survey of the facts, principles, and theories of chemistry. Usually offered in the fall and summer semesters.

CH 105. Introductory Org Chem. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to chemistry majors or minors or to students who have earned credit for CH 102. Degree credit is not awarded for both CH 105 and CH 102 or both CH 105 and CH 108. The course may not be substituted for CH 101 or CH 102. Brief survey of organic and biochemistry. Usually offered in the spring and summer semesters.
Prerequisite(s): CH 104 or CH 101.

CH 117. Honors General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 101. Degree credit is not awarded for both CH 117 and CH 101 or both CH 117 and CH 107. A comprehensive study of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall semester.

CH 118. Honors General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 102. Degree credit is not awarded for both CH 118 and CH 102, both CH 118 and CH 105, or both CH 118 and CH 108. Continuation of CH 117 with basic inorganic chemistry. Includes a systematic study of the elements and of the structures, properties, and reactions of their compounds. Usually offered in the spring semester.
Prerequisite(s): CH 117.

CH 155. Forensic Science. 3 sem. hrs.
This course will present an overview of forensic science. The course will focus on processing a crime scene as well as other topics used to connect a suspect to a given crime.

CH 223. Quantitative Analysis. 4 sem. hrs.
Three lectures and one three hour laboratory. Comprehensive course covering classical methods of quantitative analysis as well as an introduction to electrochemical, spectroscopic and chromotographic methods. Usually offered in the fall, spring and summer semesters.
Prerequisite(s): CH 102 or CH 118.

CH 231. Elem Organic Chemistry I. 3 sem. hrs.
Three lectures. The course is an introduction to the theory and principles of organic chemistry. Topics include organic structure, syntheses, and analyses. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 102 or CH 118.

CH 232. Elem Organic Chem II. 3 sem. hrs.
Three lectures. This course is a continuation of CH 231. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 231.

CH 237. Elem Organic Chem Lab. 2 sem. hrs.
A one-hour lecture and five-hour laboratory. Designed for chemistry majors and chemistry minors to take concurrently with CH 232. Usually offered in the fall, spring, and summer sessions.
Prerequisite(s): CH 231
Prerequisite(s) with concurrency: CH 232.

CH 338. Elem Organic Chem Lab II. 2 sem. hrs.
A one-hour lecture and five-hour laboratory. The course is designed for chemistry majors. Usually offered in the fall semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 232 and CH 237.

CH 340. Elem Physical Chem. 3 sem. hrs.
Three lectures. This course is designed for students in the pre-health professional degree or pursuing the chemistry minor and is a study of the application of physical chemical concepts in biological systems. It is a
Prerequisite(s): CH 223 and PH 102 or PH 106 or PH 126.

CH 341. Physical Chemistry. 3 sem. hrs.
Three lectures. The course is designed for chemistry majors and is a study of the structure and properties of matter with emphasis on theoretical principles and their mathematical interpretation. Usually offered in the fall semester.
Prerequisite(s): CH 223 and PH 106 or PH 126; and MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 227 or MATH 247.

CH 342. Physical Chemistry. 3 sem. hrs.
Three lectures. The course is designed for chemistry majors. Continuation of CH 341. Usually offered in the spring semester.
Prerequisite(s): CH 341.

CH 343. Elem Phy Chem Lab. 1 sem. hr.
One three-hour laboratory. The course is designed to be taken concurrently with CH 340. Usually offered in the fall semester.
Prerequisite(s) with concurrency: CH 340.

CH 348. Physical Chemistry Lab. 2 sem. hrs.
6 hours of laboratory. The course is designed to be taken concurrently with CH 342. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 341
Prerequisite(s) with concurrency: CH 342.

CH 396. Undergrad Research. 1-3 sem. hr.
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 398. Undergrad Research. 1-3 sem. hr.

CH 399. Undergrad Research. 1-3 sem. hr.
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 405. Medicinal Chemistry. 3 sem. hrs.
Fundamental considerations in drug design. Includes lead discovery, target identification and validation, pharmacodynamics, pharmacokinetics and metabolism, and formulations/drug delivery systems. Chemical modifications to improve efficacy and pharmacokinetics will be emphasized.,
Prerequisite(s): BSC 300 and CH 232 and CH 461.

CH 409. Organometallic Chemistry. 3 sem. hrs.
Survey of the typical reactions of organotransition metal complexes with a focus on the fundamental mechanisms of these reactions and the application of organometallic catalysts.
Prerequisite(s): CH 341 or CH 401 or CH 413.

CH 410. Scientific Glassblowing. 3 sem. hrs.
The course introduces students to the fundamentals of scientific glassblowing through hands-on training. Usually offered during Interim.

CH 413. Inorganic Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Survey in areas of coordination, main-group, and organometallic chemistry. Laboratory experiments involve the preparation, purification, and identification of inorganic compounds. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 341.

CH 424. Instrumental Analysis. 4 sem. hrs.
Two lectures and one five-hour laboratory. The course covers the general operating principles of the commonly used analytical instruments with an emphasis on theory. Wherever possible, mathematical interpretations and derivations are given. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 223 and CH 341
Prerequisite(s) with concurrency: CH 348.

CH 435. Inter Organic Chem. 3 sem. hrs.
Three lectures. The course is designed to familiarize the student with mechanistic and synthetic organic chemistry. Usually offered in the fall semester.
Prerequisite(s): CH 232 and CH 342.

CH 449. Atom & Mole Structures. 3 sem. hrs.
Three lectures. Introduction to quantum mechanics and statistical thermodynamics. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 342 and CH 348.

CH 461. Biochemistry I. 3 sem. hrs.
Three lectures. Survey of the physical and chemical properties of the molecular components and methods of isolating and analyzing them. Usually offered in the fall semester.
Prerequisite(s): CH 223 and CH 232 and CH 237.

CH 462. Biochemistry II. 3 sem. hrs.
Three lectures. Survey of the principal pathways of carbon, nitrogen, and energy metabolism and clinical and forensic chemistry. Usually offered in the spring semester.
Prerequisite(s): CH 461 or BSC 300.

CH 463. Biochem-Clin/Foren/Chem. 3 sem. hrs.
One lecture and one six-hour laboratory. Biochemical techniques within the structure of a semester-long research project. Topics include protein purification and chromatography, spectroscopy, electrophoresis, kinetics, and DNA manipulation. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 461
Prerequisite(s) with concurrency: CH 462.

CH 491. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 492. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 493. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 494. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 497. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 348 and CH 342.

CH 498. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348.

CH 499. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348.

Department of Communicative Disorders

The Department of Communicative Disorders offers a bachelor of arts (BA) degree and a minor in communicative disorders (speech-language pathology). Students majoring in communicative disorders are expected to matriculate to graduate study in speech-language pathology or audiology.

Communicative Disorders Major

Degree Requirements

Students earning the bachelor of arts degree (BA) with a major in communicative disorders must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students must be sophomore standing and have an overall GPA of 2.5 to enroll in any CD course. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major online under the Student tan of myBama.

Prerequisites

Sophomore standing and a cumulative minimum GPA of 2.5 are required to enroll in any CD course. Completion of all 200-level CD courses (with the exception of CD 277 Preprofess Lab Experienc) are required for enrollment in 300- and 400-level CD courses.CD 377 Clin Practicum I Speech, CD 378 Clinic Pract II Speech and CD 445 Audiology Lab Experience are by application only, and permission of the instructor is required prior to enrollment in any CD 350 Independent Study course.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Office of University Registrar explanation of grade point average calculations. Minimum GPA standards are required for clinical practicum and continuance in the major. See the Admission into the Major section above and the Admission to Clinical Practicum section below.

Major Courses

The major in communicative disorders requires the successful completion of the following 34 semester hours:

		Hours
CD 225	Intro Comm Disorders	3
CD 226	Lang & Speech Develop	3
CD 244	Phonetics	3
CD 275	Anat Physio Sech Hear Mechansm	3
CD 277	Preprofess Lab Experienc	1
CD 308	Speech Disorders I	3
CD 309	Speech Disorders II	3
CD 351	Hearing Science	3
CD 411	Speech Science	3
CD 416	Multicultural Issues	3
CD 443	Basic Audiology	3

CD 444	Aural Rehabilitation	3
Total Hours		34

Students may choose to take elective CD courses:

CD 350	Independent Study	1-3
CD 377	Clin Practicum I Speech	3
CD 445	Audiology Lab Experience	1-3
CD 454	Fluency Disorders	3
CD 455	Voice Disorders	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in communicative disorders requires the successful completion of the following courses outside the major. Many of these courses can be used to satisfy general education requirements.

		Hours
PY 101	Intro To Psychology	3
BSC [1]		4
Physical Science [2]		4
Select one of the following:		3
BER 345	Educational Statistics	
PY 211	Elem Statistical Methods	
ST 260	Statistical Data Analysis	
CJ 381	Statistics	
Total Hours		14

[1] BSC course must be chosen from the following:

BSC 108	Intro Biology Non Maj I	4
BSC 109	Intro Biology Non Maj II	4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	4
BSC 118	Honors General Biology I	4
BSC 120	Honors Gen Biology II	4

[2] Physical science course must be chosen from the following:

CH 101	General Chemistry	4
CH 102	General Chemistry	4
CH 104	Introductory Chemistry	4
CH 105	Introductory Org Chem	4
CH 117	Honors General Chemistry	4
CH 118	Honors General Chemistry	4
PH 101	General Physics I	4
PH 102	General Physics II	4
PH 105	General Physics W/Calc I	4
PH 106	Generl Physics W/Calc II	4
PH 115	Des Ph Non-Science Maj	4
PH 125	Honors Gen Ph W/Calculus	4
PH 126	Honors Gen Ph W/Calculus	4

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are advised that the communicative disorders major is considered to be pre-professional. A master's degree or the equivalent is necessary for membership in and certification by the national professional organizations and for licensure by the state of Alabama and most other states. The Department of Communicative Disorders offers a program leading to the master of science degree in speech-language pathology (see UA graduate catalog).

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements. Students majoring in communicative disorders who wish to participate in clinical practicum or audiology practicum must apply for admission into CD 377 Clin Practicum I Speech or CD 445 Audiology Lab Experience.

Admission into Clinical Practicum

Admission requirements include the following:

- minimum cumulative GPA of 3.3
- completion and minimum 3.0 GPA in all of the following:

CD 225	Intro Comm Disorders	3
CD 226	Lang & Speech Develop	3
CD 244	Phonetics	3
CD 275	Anat Physio Sech Hear Mechansm	3
CD 277	Preprofess Lab Experienc	1
CD 308	Speech Disorders I	3

- overall performance review and favorable evaluation by two graduate faculty members
- satisfactory performance on a departmental speech and language proficiency test and hearing screening as determined by the Evaluation Committee (**NOTE:** Failure of the speech and language test requires enrollment in speech-language therapy and retesting to determine if admission to the clinical practicum is possible. Appropriate follow-up steps recommended by the Evaluation Committee must be taken if a student fails the hearing screening.)

Special Opportunities

The Department of Communicative Disorders provides students an opportunity to participate in research with a departmental faculty member. Students are also encouraged to become active in the local and national chapters of the National Student Speech-Language-Hearing Association. Junior- and senior-level scholarship awards are available for students majoring in communicative disorders. For eligible students, the department also offers clinical practicums for hands-on experience in speech-language pathology and audiology.

Communicative Disorders Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Prerequisites

Sophomore standing and a cumulative minimum GPA of 2.5 are required to enroll in any CD course. Completion of all 200-level CD courses (with the exception of CD 277 Preprofess Lab Experienc) are required for enrollment in 300- and 400-level CD courses.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanationon grade point average calculations. Minor GPA standards are required for continuance in the minor.

Minor Courses

The minor in communicative disorders requires the successful completion of the following 18 semester hours:

		Hours
CD 225	Intro Comm Disorders	3
CD 226	Lang & Speech Develop	3
CD 275	Anat Physio Sech Hear Mechansm	3
CD 308	Speech Disorders I	3
CD 309	Speech Disorders II	3
CD 443	Basic Audiology	3
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Chair and Associate Professor

Hay-McCutcheon, Marcia J.

Professors

Burkhalter, Carmen

Davis, Priscilla Nellum

Schmitt, John

Distinguished Graduate Research Professor

Formby, C. Craig

Clinical Assistant Professor and Clinic Director

Moss, Laura B.

Assistant Professors

Barber, Angela

Buhr, Anthony

Gaskill, Christopher S.

Saffo, Rachel

Courses

CD 225. Intro Comm Disorders. 3 sem. hrs.
Study of the types of speech, language, and hearing disorders; an introduction to the principles of rehabilitation of communicative disorders; and consideration of employment settings.

CD 226. Lang & Speech Develop. 3 sem. hrs.
Theory and practice of normal speech and language processes and sequences.

CD 244. Phonetics. 3 sem. hrs.
Study of the principles of phonetics and their application to speech. The International Phonetic Alphabet is used for study and transcription.

CD 275. Anat Physio Sech Hear Mechansm. 3 sem. hrs.
Detailed study of the bases of speech and hearing, including anatomy, physiology, and neurology.

CD 277. Preprofess Lab Experienc. 1 sem. hr.
Structured observational activities for students prior to their enrollment in a practicum course in speech-language pathology. Open to CD majors only.

CD 308. Speech Disorders I. 3 sem. hrs.
An introduction to articulation, phonology, & language disorders in children & adults as well as literacy & aural rehabilitation.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 309. Speech Disorders II. 3 sem. hrs.
An introduction to aphasia, traumatic brain injury, dementia, dysarthria, and apraxia.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 350. Independent Study. 1-3 sem. hr.
Directed readings in an area of communicative disorders. Open to CD majors only.
Prerequisite(s): Minimum of 18 hours in CD courses and permission of the instructor.

CD 351. Hearing Science. 3 sem. hrs.
This course will provide the student with an understanding of the physical aspects of sound and how it is processed physiologically through the human auditory system. In addition, the student will become familiar with the anatomy of the hearing mechanism.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 377. Clin Practicum I Speech. 3 sem. hrs.
Supervised clinical practice in speech therapy with children. Open to CD majors only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 277 CD 308 By application only.

CD 378. Clinic Pract II Speech. 1-3 sem. hr.
Supervised clinical practice in speech therapy with children.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 277 CD 308 CD 377 By application only.

CD 411. Speech Science. 3 sem. hrs.
A study of speech physiology, basic electronics, basic acoustics, speech acoustics, auditory perception, and neuroanatomy. Class work and laboratory sessions cover speech spectrographic analysis, basic sound measurement, and selected other instrumentation used in the speech and hearing science laboratory.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 416. Multicultural Issues. 3 sem. hrs.
A framework for systematically analyzing cultural similarities and differences will be provided and will serve as a model to examine cultural differences in the clinical setting. Offered fall semester.
Prerequisite(s): CD 225 and CD 226 and CD 244.

CD 442. Public School Internship. 3-6 sem. hrs.

CD 443. Basic Audiology. 3 sem. hrs.
Introduction to hearing evaluation, conservation, and impairment. Also considers the auditory system: anatomy, physiology, and pathology. Includes three laboratory sessions.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 444. Aural Rehabilitation. 3 sem. hrs.
The rehabilitation of hearing-impaired people primarily through auditory and visual training is addressed. Other sensory training, language development, speech production, and guidance are also considered. Open to CD majors only.
Prerequisite(s): Minimum overall GPA of 2.5 CD 225 CD 226 CD 244 CD 275.

CD 445. Audiology Lab Experience. 1-3 sem. hr.
Supervised laboratory or clinical experience in hearing evaluation and rehabilitation.
Prerequisite(s): Completion of the 200-and 300-level undergraduate CD classes as well as CD 443. By application only.

CD 448. Advanced Audiology. 3 sem. hrs.
An in-depth study of audiology and hearing science as they relate to speech communication and communication disorders.

CD 454. Fluency Disorders. 3 sem. hrs.
The study of the nature, assessment, and treatment of stuttering. Emphasis on understanding the different onset and developmental theories and different approaches to treatment.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308.

CD 455. Voice Disorders. 3 sem. hrs.
This course is designed to provide basic knowledge and skills needed for the evaluation and treatment of voiced language disorders.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308.

Department of Criminal Justice

The Department of Criminal Justice offers a bachelor of arts (BA) degree in criminal justice and minors in criminal justice and sociology.

Criminal Justice Major

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in criminal justice must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Acceptance into the criminal justice major requires the completion of at least 12 semester hours with a 2.25 higher education GPA. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in criminal justice requires the successful completion of the following 36 semester hours (minimum grade of C-):

		Hours
CJ 100	Intro Criminal Justice	3
CJ 300	Survey Criminal Theories	3
CJ 303	Minorities Crim Soc Just	3
CJ 306	Hist Crime And Treatment	3
CJ 380	Research Methods	3
CJ 381	Statistics	3
CJ electives *		18
Total Hours		36

*Students may apply up to 9 hours of CJ 395 Internship and 3 hours of CJ 499 Independnt Study In CJ to the major.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

A grade of C- or higher is required in all criminal justice courses. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Criminal Justice Minor

Admission into the Minor

Acceptance into the criminal justice minor requires at least 12 earned semester hours and a 2.25 higher education GPA. Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in criminal justice requires the successful completion of the following 21 semester hours:

		Hours
CJ 100	Intro Criminal Justice	3
CJ electives 300 or 400 level *		6
CJ electives *		12
Total Hours		21

* A maximum of 6 hours of CJ 395 Internship and CJ 499 Independnt Study In CJ will count as CJ electives.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

A grade of C- or higher is required in all criminal justice courses. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department of Criminal Justice has two very active student organizations. Alpha Phi Sigma is the National Criminal Justice Honor Society and is devoted to promoting academic excellence, leadership and self-enrichment through academic standards and community outreach. The Criminal Justice Student Organization welcomes all students with interest in the field of criminal justice.

Sociology Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The sociology minor requires the successful completion of the following 18 semester hours:

		Hours
SOC 101	Intro To Sociology	3
SOC 302	Sociological Theory	3
SOC electives 300 or 400 level		6
SOC electives		6
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for all 300- and 400-level SOC courses is SOC 101 Intro To Sociology.

Faculty

Chair and Professor

Lanier, Mark M.

Professor

Johnson, Ida

Associate Professors

Lichtenstein, Bronwen

Williams, Jimmy J.

Assistant Professors

Lankford, Adam

Prohaska, Ariane

Seigfried-Spellar, Kathryn

Instructors

Edge, Christine

Guidry, Tiffiny

Klutz, Douglas

Olin, Lin

Swindal, Megan

Visiting Instructors

England, John

Halliday, Patrick

Johnson, Ebony

Miller, James

Mills, Paul

Sexton, Ted

Simon, Jim

Wilson, Jason

Yearout, Lauren

Criminal Justice (CJ) Courses

CJ 100. Intro Criminal Justice. 3 sem. hrs.
An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components. CJ 100 is a prerequisite for all 300- and 400-level criminal justice courses.

CJ 220. Law Enforcement. 3 sem. hrs.
Development of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies; and functions of police officers.

CJ 221. Private Security. 3 sem. hrs.
Organization and management of the security function in industry, business, and government. Exploration of methods to protect personnel, facilities, and other major assets: loss prevention, control, and risk management.

CJ 240. Juvenile Delinquency. 3 sem. hrs.
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.

CJ 250. Judicial Process. 3 sem. hrs.
A general overview of U.S. judicial systems, including recent innovations and future trends.

CJ 270. Corrections. 3 sem. hrs.
A general overview of U.S. corrections, jails and prisons, institutional procedures, recent innovations, and the future of corrections.

CJ 300. Survey Criminal Theories. 3 sem. hrs.
Study of traditional and modern explanations of crime and criminality.
Prerequisite(s): CJ 100.

CJ 303. Minorities Crim Soc Just. 3 sem. hrs.
Study of the role played by racial minorities at each stage of the criminal justice system. Special attention is devoted to theories and measurement of minority crimes and race relations and to the treatment of minorities by law enforcement officers, courts, and corrections.
Prerequisite(s): CJ 100.

CJ 306. Hist Crime And Treatment. 3 sem. hrs.
Examination in historical sequence of the perspectives on and methods of crime control, from the traditional to the modern. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100.

CJ 321. Criminal Investigation. 3 sem. hrs.
Fundamentals of criminal investigation from crime scene searches to follow-up investigations and case preparation.
Prerequisite(s): CJ 100.

CJ 330. Org & Mgt Concepts CJ. 3 sem. hrs.
Formal organization theory and personnel administration, with emphasis on law enforcement agencies.
Prerequisite(s): CJ 100.

CJ 380. Research Methods. 3 sem. hrs.
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problem of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): CJ 100.

CJ 381. Statistics. 3 sem. hrs.
Statistical methods in criminal justice, including central tendency and dispersion, tests of significance, and measures of association.
Prerequisite(s): CJ 100 and MATH 110 or MATH 112 or MATH 115.

CJ 395. Internship. 1-12 sem. hr.
An opportunity for students to conduct career exploration and build a record of experience in the field.
Prerequisite(s): CJ 100.

CJ 404. Health and Crime. 3 sem. hrs.
The health consequences of social deviance and the impact of criminalization for individual and societal well-being. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.
Prerequisite(s): CJ 100.

CJ 408. Gendered Justice. 3 sem. hrs.

CJ 410. Community Based Correctn. 3 sem. hrs.
Study of intermediate punishments and alternatives to incarceration.

CJ 420. Seminar In Law Enforcement. 3 sem. hrs.
Examines the philosophical basis of law enforcement and traces the development of the law enforcement function.

CJ 421. Crime Prevention/Control. 3 sem. hrs.
Survey of crime control models.
Prerequisite(s): CJ 100.

CJ 422. Terrorism . 3 sem. hrs.
An analysis of selected areas of terrorism and counter-terrorism, with an emphasis on parallels between terrorism and crime.
Prerequisite(s): CJ 100 - Introduction to Criminal Justice.

CJ 423. Issues in Homeland Security . 3 sem. hrs.
The course will offer an overview of the United States Department of Homeland Security from its initiation to present day, and the wide range of issues that the department influences, both policy and operational. Additionally, how the United States Department of Homeland Security interacts with state, local, and tribal governments, or law enforcement agencies.
Prerequisite(s): CJ 100 - Introduction to Criminal Justice.

CJ 450. Seminar In Judicial Process. 3 sem. hrs.
Examines the philosophical basis of the American legal system and traces the development of the judicial process.

CJ 460. Criminal Law I. 3 sem. hrs.
Classification and analysis of selected areas of the substantive law of crimes, including basic principles of criminal law and crimes against the person and property.
Prerequisite(s): CJ 100.

CJ 461. Criminal Law II. 3 sem. hrs.
General principles and theories of criminal procedure, including concepts of due process, arrest, search and seizure, wiretapping, lineups, and other recent developments.
Prerequisite(s): CJ 100.

CJ 470. Seminar In Corrections. 3 sem. hrs.
History, analysis, and evaluation of American correctional institutions, including the sociology of confinement and reform movements within the system.
Prerequisite(s): CJ 100.

CJ 483. Law And Society. 3 sem. hrs.
Law as an instrument of social control, the functions and limitations of law, and the machinery of law as a part of the larger society. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100.

CJ 490. Spec Topics Crim Justice. 3 sem. hrs.
Examination of selected problems and issues in criminal justice. May be taken twice, provided the topic is different.
Prerequisite(s): CJ 100.

CJ 499. Independnt Study In CJ. 1-6 sem. hr.
Research under faculty supervision in any area of interest to the student.

Sociology (SOC) Courses

SOC 101. Intro To Sociology. 3 sem. hrs.
Introduction to the scientific study of human social behavior.

SOC 202. Analysis Social Problems. 3 sem. hrs.
Study of contemporary social problems, including definition, description, and analysis. Emphasis is on social change perspectives and cultural complexity.

SOC 205. Social Psychology. 3 sem. hrs.
Not open to students who have earned credit in PY 372. Study of the interrelationships between the individual and the group. Includes perception, cognition, attribution, attitudes, helping behavior, aggression, personal relationships, prejudice, and gender in social life. Also includes aspects of applied social psychology.

SOC 210. Juvenile Delinquency. 3 sem. hrs.
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.
Prerequisite(s): SOC 101.

SOC 300. Research Methods. 3 sem. hrs.
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problems of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): SOC 101.

SOC 301. Social Statistics. 3 sem. hrs.
Elementary statistical techniques applied to sociological data; tables and graphs, central tendency and dispersion, probability and sampling, tests of significance, and measures of association.
Prerequisite(s): SOC 101 and MATH 110 or MATH 112.

SOC 302. Sociological Theory. 3 sem. hrs.
The course will provide a review of the major systems of thought about society. Special emphasis is given to historical context and philosophical background as they relate to the development of sociological theories. Students will be introduced to view points and idea about how society functions, the role of conflict in society and the forces of social change.

SOC 315. Race And Ethnic Relations. 3 sem. hrs.
Analysis of American social structure, race and ethnic relations, and demographic and institutional trends; studies of racial and ethnic issues.
Prerequisite(s): SOC 101.

SOC 350. Criminology. 3 sem. hrs.
Theories of criminality, types of delinquent and criminal behavior, crime causation, crime control by police, and the criminal courts.
Prerequisite(s): SOC 101.

SOC 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.
Prerequisite(s): SOC 101.

SOC 360. Sociology of HIV/AIDS. 3 sem. hrs.
Study of the social dimensions of HIV/AIDS. Discussions cover how HIV/AIDS is socially constructed in terms of gender, sexualities, race/ethnicity and social class. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 390. Selected Topics In Soc. 3 sem. hrs.
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; Latin American life; small-group dynamics; environmental sociology; medical sociology.
Prerequisite(s): SOC 101.

SOC 404. Health and Crime. 3 sem. hrs.
Revise title to Health and Society Do not cross list with CJ404.

SOC 405. Gender & Society. 3 sem. hrs.
A sociological approach to the study of women & men, focusing on: the social construction of genders in institutions and in everyday life, feminist theories of masculinity, gender inequality, and social change.
Prerequisite(s): SOC 101.

SOC 444. Environmental Sociology. 3 sem. hrs.
Sociological analysis of environmental issues including the background of environmental issues, population, planning, limits to growth, food and energy resources, and social impacts of environmental alterations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 450. Sociology Of Law. 3 sem. hrs.
Study of social origin and consequences of law and legal process; analysis of social factors that determine legal outcomes.
Prerequisite(s): SOC 101.

SOC 460. Body Politics. 3 sem. hrs.
Study of how human bodies are politicized in modern society. Discussions cover how the human body is politically constructed according to gender, race/ethnicity, occupation and social class. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 490. Seminar In Sociology. 1-3 sem. hr.
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; advanced deviant behavior; juvenile delinquent behavior; Latin American life; small-group dynamics; environmental sociology; medical sociology.
Prerequisite(s): SOC 101.

SOC 499. Ind Study in Sociology. 1-6 sem. hr.
1-6 hour independent study course allowing students to conduct sociological research under faculty supervision.
Prerequisite(s): SOC 101.

Department of English

The Department of English offers a bachelor of arts (BA) degree in English and minors in English and creative writing. It also sponsors an honors program in English.

English Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in English must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in English requires the successful completion of the following 36 hours:

		Hours
EN 205 or	English Literature I	3
EN 215	Honors English Literature I	
Select three from the following (or honors equivalents):		9
EN 206 or	English Literature II *	
EN 216	Honors English Literature II	
EN 207	World Literature I	
EN 208	World Literature II	
EN 209 or	American Literature	
EN 219	Honors American Literature	
EN 210 or	American Literature II	
EN 220	Honors American Literature II	
EN 249	African American Literature	
EN theory, writing or linguistics [1]		3
EN early literature (pre-1660) [2]		3
EN 18th- or 19th-century literature [3]		3
EN electives 300 level		6
EN electives 400 level		9
Total Hours		36

Students must earn three hours chosen from each of the following areas:

[1] Theory, Writing or Linguistics

		Hours
EN 300	Intro To English Studies	3
EN 301	Prose Tour	3
EN 303	Poetry Tour	3
EN 309	Advanced Expository Writing	3
EN 310	Special Topics Writing	3
EN 319	Technical Writing	3
EN 320	Intro To Linguistics	3
EN 321	Linguis Approach English Gramr	3

[2] Early Literature (Pre-1660)

		Hours
EN 330	Chaucer And Medieval Literatur	3
EN 331	Chaucer	3
EN 332	Sixteenth Century Literature	3
EN 333	Shakespeare	3

EN 334	Seventeenth Century Literature	3
EN 335	Milton	3
EN 371	Tragedy	3

[3] 18th- or 19th-Century Literature		Hours
EN 340	American Literature To 1900	3
EN 341	American Poetry To 1900	3
EN 342	American Fiction To 1900	3
EN 343	British Fiction To 1900	3
EN 344	Major Authors 1660-1900	3
EN 347	English Lit During Enlightenmt	3
EN 348	Romantic Literature	3
EN 349	Victorian Literature	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in English requires four semesters or equivalent proficiency in one foreign language outside the major. **NOTE:** Computer science does not fulfill this requirement.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

EN 200 Intro Creative Writing and EN 430 English Internship are not applicable to the major in English. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

Unless otherwise stated, upper-level English courses have the following prerequisites: 300-level courses require 12 hours of EN (including six hours at the 200 level), 400-level courses require 18 hours of EN (including six hours at the 200 level) and six hours at the 300 level.

Special Opportunities

Among the special opportunities available in the Department of English include the Honors in English program and Sigma Tau Delta honor society.

Honors in English

Any English major with a superior aptitude for and a special interest in English may apply for admission to the honors program in English. The program includes special honors sections of sophomore literature courses, eligibility for the Junior Honors Seminar in English and an Honors Thesis. EN 399 Honors Seminar in English gives students an opportunity to experience a course which cuts across conventional divisions of literary period and literary form. EN 499 Honors Thesis affords students the opportunity to work with faculty mentors who will guide them in readings, research and selection of a suitable topic for the thesis.

To be eligible for graduation with honors in English, participants must complete EN 215 Honors English Literature I, three additional hours of honors sophomore literature (EN 216 Honors English Literature II, EN 219 Honors American Literature or EN 220 Honors American Literature II), EN 399 Honors Seminar in English and EN 499 Honors Thesis. A student may substitute EN 216 Honors English Literature II, EN 219 Honors American Literature or EN 220 Honors American Literature II for EN 215 Honors English Literature I if the student has already taken EN 205 English Literature I at the time he or she applies to the Honors Program. With permission of the Honors Program co-coordinators, students may do honors-by-contract work in 300- or 400-level courses to make up for deficits in honors credits at the 200 level. Students must have at least 3.5 grade point averages in the English major and at least 3.3 cumulative to complete the program successfully. Further information about EN 399 Honors Seminar in English, EN 499 Honors Thesis and the specific guidelines for the program can be found on the Department of English website. Students should also contact the coordinators of the Departmental English Honors Program.

Sigma Tau Delta

Sigma Tau Delta, an international English honor society, aims to promote a mastery of written expression, to encourage worthwhile reading and to foster a spirit of fellowship among its members. Students pursuing a major in English or English education, or pursuing a minor in English or creative writing, and who have at least a 3.33 GPA after 12 hours of English and at least 3.0 cumulative GPA are eligible to apply. The society, along with the department, annually presents an award to the English major with the highest overall GPA.

English Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in English requires the successful completion of the following 21 semester hours:

		Hours
EN 205 or	English Literature I	3
EN 215	Honors English Literature I	
Select three from the following (or honors equivalents):		9
EN 206 or	English Literature II	
EN 216	Honors English Literature II	
EN 207	World Literature I	
EN 208	World Literature II	
EN 209 or	American Literature	
EN 219	Honors American Literature	
EN 210 or	American Literature II	
EN 220	Honors American Literature II	
EN 249	African American Literature	
EN electives 300 level		9
Total Hours		21

Upper-level Residency

A minimum of six hours in 300-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

EN 200 Intro Creative Writing and EN 430 English Internship are not applicable to the minor in English. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser each semester in the major department for academic planning and to be approved for registration. College advisers are also available for additional assistance with minor, College and University requirements.

Creative Writing Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in creative writing requires the successful completion of the following 18 semester hours:

		Hours
EN 200	Intro Creative Writing	3
EN 301	Prose Tour	3
EN 303	Poetry Tour	3
EN 408	Advanced Creative Writing	3
EN 408	Advanced Creative Writing	3

EN 408	Advanced Creative Writing	3
Total Hours		18

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students may not enroll in EN 200 Intro Creative Writing and any other creative writing course concurrently. Students may not enroll in EN 301 Prose Tour and EN 408 Advanced Creative Writing concurrently. Students may not enroll in EN 303 Poetry Tour and EN 408 Advanced Creative Writing concurrently. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Professors

Behn, Robin

Beidler, Philip D.

Brouwer, Joel

Burke, John J.

Crowley, John W.

Davies, Catherine E.

Handa, Carolyn

Harris, Trudier

Lazer, Henry A.

Liu, Dilin

Martone, Michael

O'Dair, Sharon

Rawlings, Wendy

Ulmer, William A.

White, Patti

Associate Professors

Hornsby, Joseph A.

Manora, Yolanda M.

Niiler, Lucas

Pionke, Albert D.

White, Heather

Whiting, Frederick

Assistant Professors

Ainsworth, David

Bilkwakesh, Nikhil

Cook, Alexandra

Dayton-Wood, Amy E.

Deutsch, David

Drouin, Jennifer

Madden, Dave

McElroy, Tricia

McNaughton, James

Nelson, Robert, Jr.

Robinson, Michelle

Smith, Cassander

Streckfus, Peter

Tedeschi, Stephen

Weiss, Deborah

Wells, Kellie

Wittman, Emily

Courses

EN 099. Basic Writing. 3 sem. hrs.

EN 100. Basic Writing. 3 sem. hrs.
Fundamentals of expository writing. EN 100 is designed for students who feel uncertain of their readiness for EN 101. Students may place themselves into EN 100, and should consider this course if they scored at or below 16 ACT English or 400 SAT verbal. EN 100 does not count toward core writing composition (FC) requirements but allows students to earn elective credit while strengthening their writing skills prior to taking EN 101. Students who do not earn grades of C- or higher in this course will be assigned grades of NC (No Credit).

EN 101. English Composition. 3 sem. hrs.
Introduction to college-level expository writing, critical reading, and preliminary research techniques, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 101 does not apply as credit to the English major or minor.

EN 102. English Composition. 3 sem. hrs.
Intermediate college-level expository writing covering the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 102 does not apply as credit to the English major or minor.
Prerequisite(s): EN 101.

EN 103. Advanced English Composition. 3 sem. hrs.
This is an accelerated freshman composition course that is open to students with minimum composite scores of 28 ACT Composite or 1250 SAT, or minimum ACT English scores of 30 or SAT verbal scores of 720. With the appropriate qualifying scores and the completion of EN 103 with a grade of C- or higher, placement credit is awarded for EN 101 and the general education requirement for freshman composition is completed. Expository writing. Topics to be determined by each instructor. Grades are reported as A, B, C, or NC (No Credit). A grade of C- is required as a prerequisite for advancing to another English course at The University of Alabama. EN 103 does not apply as credit to the English major or minor.
Prerequisite(s): 28 ACT composite or 1250 SAT OR ACT English score of 30 or SAT verbal score of 720.

EN 104. English Composition BUI. 3 sem. hrs.
College-level expository writing, critical reading, and library research. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). This course substitutes for either EN 103 Advanced Composition or EN 101 Freshman Composition I. Students who qualify for EN 103 (a score of 28 or higher on the ACT or 1240 on the SAT) are awarded an additional 3 hours of composition credit with a grade of "pass" upon successful completion of EN 104. Other students receive the same credit if they earn a grade of "A-" or higher. Students who earn a grade lower than "A-" are required to take three additional hours of freshman composition, generally EN 102. Students who have credit for EN 101 and EN 102 either from another institution or through AP or IB placement do not take EN 104. EN 104 does not apply as credit to the English major or minor.

EN 120. English Comp I Non Native Spkr. 3 sem. hrs.
The first in a two-course sequence, EN 120 introduces non-native English speakers to college-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered every semester.

EN 121. English Comp II Non-Native Spk. 3 sem. hrs.
The second course in UA's first-year sequence in composition, EN 121 introduces non-native English speakers to the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered each semester.
Prerequisite(s): EN 120.

EN 155. Freshman Seminar. 3 sem. hrs.

EN 200. Intro Creative Writing. 3 sem. hrs.
Study of topics relating to all genres of creative writing; introduction of genre-specific principles. Required of all creative writing minors. Credit for this course is not applicable toward the requirements of the English major or minor.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 205. English Literature I. 3 sem. hrs.
Survey of English literature from the Anglo-Saxon period to 1800, including, Chaucer, Shakespeare, and Milton.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 206. English Literature II. 3 sem. hrs.
Survey of English literature from 1800 to the present, including, works from the Romantic, Victorian, and Modern eras.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 207. World Literature I. 3 sem. hrs.
Survey of world literature from the Classical period to the Renaissance.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104 or EN 120 and EN 121.

EN 208. World Literature II. 3 sem. hrs.
Survey of world literature from the Enlightenment to the Modern period.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104 or EN 120 and EN 121.

EN 209. American Literature. 3 sem. hrs.
Survey of American literature from its beginnings to 1865, including, work by Poe, Thoreau, Emerson, Melville, and Whitman, among others.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 210. American Literature II. 3 sem. hrs.
Survey of American literature from 1865 to the present, including, work by Dickinson, Twain, Hemingway, Faulkner, and Morrison.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 215. Honors English Literature I. 3 sem. hrs.
Honors section of EN 205.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 216. Honors English Literature II. 3 sem. hrs.
Honors section of EN 206.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 219. Honors American Literature. 3 sem. hrs.
Honors section of EN 209.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 220. Honors American Literature II. 3 sem. hrs.
Honors section of EN 210.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 249. African American Literature. 3 sem. hrs.
Survey of African American literature from its earliest expressions to the present. The course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 300. Intro To English Studies. 3 sem. hrs.
An introduction for English majors to the methods employed in the discipline of English. Students will be exposed to the fundamental issues of critical reading, interpretation, and writing, especiall to the use of critical methods in the study of primary texts. Readings will include a selection of texts in the traditional categories of poetry, drama, and prose, as well as the genre of the critical essay. There may also be investigations into other genres and media.

EN 301. Prose Tour. 3 sem. hrs.
Study of basic principles of composing creative prose. Reading and assigned writing experiments in a broad range of prose forms. Required of all creative writing minors.
Prerequisite(s): EN 200.

EN 303. Poetry Tour. 3 sem. hrs.
Study of basic principles of composing poetry. Reading and assigned writing experiments in a broad range of poetic forms. Required of all creative writing minors.
Prerequisite(s): EN 200.

EN 309. Advanced Expository Writing. 3 sem. hrs.
Study and practice in methods of exposition, explanation and explication, logic and persuasion, definition and analogy, analysis and evaluation. Enrollment is limited to 15. Writing proficiency within this discipline is required for a passing grade in this course.

EN 310. Special Topics Writing. 3 sem. hrs.
Topics vary from semester to semester; examples are legal writing, writing about the social sciences and reading and writing in cyberspace. May be repeated once for credit.

EN 311. Special Topics In Literature. 3 sem. hrs.
Topics vary from semester to semester and may include courses offered by other departments.

EN 317. Writing Center Practicum. 3 sem. hrs.
An introduction to the history, theory and practice of Writing Centers. Students completing the course can apply for positions on the Writing Center staff.

EN 319. Technical Writing. 3 sem. hrs.
Focuses on principles and practices of technical writing, including audience analysis, organization and planning, information design and style, usability testing, and collaborative writing. Writing proficiency within this discipline is required for a passing grade in this course.

EN 320. Intro To Linguistics. 3 sem. hrs.
Introduction to the study of language, including subjects such as language acquisition, variation, and origins. The system of sounds, syntax, and meaning are illustrated in English and other languages. Prerequisite for EN 466.

EN 321. Linguis Approach English Gramr. 3 sem. hrs.
A study of English grammar integrating principles from linguistic theory with structural approaches to grammar. The course includes a focus on the expectations of grammatical usage in different contexts and an understanding of how to apply this knowledge in a pedagogical setting. This course is a prerequisite for EN 466.

EN 329. Directed Studies. 1-3 sem. hr.
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies. A reading list and a draft syllabus are required. Please see the departmental website for more information.

EN 330. Chaucer And Medieval Literatur. 3 sem. hrs.
Examines works of the Old and Middle English Periods, the formative years of British literature. Works from pre-conquest England may include Beowulf, Bede's History of the English Church, and poems from the Exeter and Vercelli manuscripts. The major works from the fourteenth and fifteenth centuries may include Sir Gawain and the Green Knight, William Langland's Piers Plowman, John Gower's Confessio Amantis, and Chaucer's Troilus and Criseyde and the Canterbury Tales.

EN 331. Chaucer. 3 sem. hrs.
Introduction to the works of Chaucer. This course includes a study of Chaucer's language as well as the 14th-century milieu.

EN 332. Sixteenth Century Literature. 3 sem. hrs.
A cross-genre survey of the literature of the Elizabethan period. Authors may include Sir Thomas More, Sir Thomas Wyatt, Sir Philip Sidney, Sir Walter Raleigh, Edmund Spenser, Aemilia Lanyer, Christopher Marlowe, and William Shakespeare.

EN 333. Shakespeare. 3 sem. hrs.
An introduction to Shakespeare's plays and poems. Elizabethan customs, politics, history, and philosophies are examined in relation to his works.

EN 334. Seventeenth Century Literature. 3 sem. hrs.
A cross-genre survey of literature in English from 1603 to 1660. Authors may include John Donne, Ben Jonson, Francis Bacon, John Webster, Lady Mary Wroth, William Bradford, Anne Bradstreet, and Andrew Marvell.

EN 335. Milton. 3 sem. hrs.
An introduction to Milton's English poetry along with the history, politics, aesthetics, philosophy, and theology of seventeenth-century England. Typically devotes approximately half the semester to a close reading of Paradise Lost.

EN 340. American Literature To 1900. 3 sem. hrs.
A cross-genre survey of American literature from its beginnings to 1900. Authors may include Mary Rowlandson, Cotton Mather, Phillis Wheatley, Nathaniel Hawthorne, Frederick Douglass, Henry James, and Mark Twain.

EN 341. American Poetry To 1900. 3 sem. hrs.
A survey of American poetry from its beginnings to 1900. Authors may include Anne Bradstreet, Edward Taylor, Edgar Allan Poe, Walt Whitman, and Emily Dickinson.

EN 342. American Fiction To 1900. 3 sem. hrs.
A survey of the development of American fiction from its beginnings to 1900, with attention to both the novel and the short story. Authors may include James Fenimore Cooper, Nathaniel Hawthorne, Harriet Beecher Stowe, Herman Melville, Mark Twain, and Kate Chopin.

EN 343. British Fiction To 1900. 3 sem. hrs.
A survey of developments in British fiction from its beginnings to 1900. Authors may include Aphra Behn, Daniel Defoe, Samuel Richardson, Henry Fielding, Jane Austen, Charles Dickens, and George Eliot.

EN 344. Major Authors 1660-1900. 3 sem. hrs.
Limited to a maximum of three authors. Attention to the national literatures of Britain and America, and to different genres of prose, drama, and poetry, will vary from semester to semester. Authors may include John Milton, Alexander Pope, Jane Austen, Ralph Waldo Emerson, Herman Melville, Frederick Douglass, and Emily Dickinson.

EN 347. English Lit During Enlightenmt. 3 sem. hrs.
A cross-genre survey of English literature during the period 1660-1800. Authors may include John Locke, John Bunyan, Mary Astell, Jonathan Swift, Lady Mary Wortley Montagu, Samuel Johnson, Hester Thrale, and James Boswell.

EN 348. Romantic Literature. 3 sem. hrs.
A cross-genre survey of British Romantic writers such as William Blake, Jane Austen, William Wordsworth, Samuel Taylor Coleridge, Lord Byron, John Keats, Percy Bysshe Shelley, and Mary Shelley.

EN 349. Victorian Literature. 3 sem. hrs.
A survey of the genres, authors, and issues in British literature, 1832-1900. Authors may include Thomas Carlyle, Elizabeth Barrett Browning, Robert Browning, Alfred, Lord Tennyson, Matthew Arnold, Dante Gabriel Rossetti, Christina Rossetti, and Oscar Wilde.

EN 350. Topics In African American Lit. 3 sem. hrs.
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

EN 360. Topics American Lit 1900-1945. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in America. Authors may include Henry James, Mark Twain, Edith Wharton, W.E.B. Du Bois, Gertrude Stein, Countee Cullen, Eugene O'Neill, and Wallace Stevens.

EN 361. Top American Lit 1945-Present. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in America. Authors may include Langston Hughes, Arthur Miller, James Baldwin, Norman Mailer, Toni Morrison, Sam Shepherd, Adrienne Rich, and John Ashbery.

EN 362. Topics British Lit 1900-1945. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in Britain. Authors may include Joseph Conrad, George Bernard Shaw, W. B. Yeats, Virginia Woolf, James Joyce, Katherine Mansfield, and T. S. Eliot.

EN 363. Top British Lit 1945-Present. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in England. Authors may include Samuel Beckett, W. H. Auden, Doris Lessing, Seamus Heaney, Harold Pinter, and Jeanette Winterson.

EN 364. Modern Drama. 3 sem. hrs.
A survey of the major American, British, European and African plays from the 19th and 20th centuries. Authors may include Eugene O'Neill, Tennessee Williams, Ntozake Shange, Oscar Wilde, Harold Pinter, Tom Stoppard, August Strindberg, Anton Chekhov, Wole Soyinka and Athol Fugard.

EN 365. Modern American Fiction. 3 sem. hrs.
A survey of American fiction (novels and short stories) written in the 20th century. Authors may include F. Scott Fitzgerald, Willa Cather, William Faulkner, Toni Morrison, N. Scott Momaday and Leslie Marmon Silko.

EN 366. Twentieth Century Poetry. 3 sem. hrs.
A survey of major authors and trends in modern poetry in America, Britain, and the larger Anglophone world, as poetry in English became an international phenomenon. Attention will be paid to modernist and post-modernist poetry movements, American regionalisms, war poetry, and the poetry of neocolonial experiences.

EN 368. Modern British Fiction. 3 sem. hrs.
A survey of the twentieth-century novels and short stories produced by leading British and Irish writers. Authors may include James Joyce, Virginia Woolf, George Orwell, Iris Murdoch, A. S. Byatt, Martin Amis, V.S. Naipaul, Edna O'Brien, and J.M. Coetzee.

EN 371. Tragedy. 3 sem. hrs.
A cross-genre survey of tragic literature that may begin with the classical tragedians and proceed through the present. This course, like tragedy itself, will focus on the individual confronting the larger forces of society, god, or fate. This course considers changing conceptions of the tragic whether in fiction, poetry, or drama.

EN 373. Women In Literature. 3 sem. hrs.
A survey of British and American literature written by and/or about women. Authors may include a cross-genre range from Anne Bradstreet and Fanny Burney to Toni Morrison and Louise Erdrich.

EN 399. Honors Seminar in English. 3 sem. hrs.
Covers selected topics in English that vary from year to year. Topics are most likely to be thematic and to cut across conventional divisions of literary period and literary form. Required for departmental honors.
Prerequisite(s): EN 215 and EN 216 or EN 219 or EN 220.

EN 400. Senior Seminar. 3 sem. hrs.

EN 408. Advanced Creative Writing. 3 sem. hrs.
Special topics in imaginative writing. Focus may be on poetry, fiction, non fiction or a combination. Students produce imaginative writing and read related texts.
Prerequisite(s): EN 200 and EN 301 and EN 303.

EN 409. Writing For Film. 3 sem. hrs.
Introduction to the craft of writing for film and television.

EN 410. Writing Professional Non-Fict. 3 sem. hrs.
Study of imaginative prose engaged with factual subject matter. Reading of published creative nonfiction and assigned writing experiments will complement round table discussion and criticism of original student manuscripts.

EN 411. Adv Stdy Comptv Multi-Cutl Lit. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues involving comparative literatures and/or cultural studies. Writing proficiency within this discipline is required for a passing grade in this course.

EN 422. Adv Studies Americ Literature. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in American literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 423. History of the English Language. 3 sem. hrs.
An introduction to the external history of the English language along with the study of the accompanying internal changes in structure.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 424. Structure Of English. 3 sem. hrs.
Advanced study of the structure and usage of the English language, focusing on issues of morphology, syntax, and discourse context. Offered each fall semester.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 425. Variation in American English. 3 sem. hrs.
The study of the experience of the English language in America with particular emphasis on its development and dialects.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 429. Directed Readings. 3 sem. hrs.
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies.

EN 430. English Internship. 3-6 sem. hrs.
An on- or off-campus training position in which students use the skills they have gained as English majors and enhance their employment opportunities after graduation. Interns work approximately 10 hours a week, holding responsible positions with, among others, Alabama Heritage, Alabama Alumni Magazine, and the Tuscaloosa Public Defender's Office. Apply to the director of undergraduate studies in the Department of English. Please see the departmental website for the application form and further details.

EN 433. Advanced Studies British Lit. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in British literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 444. Adv Stdy Literary Crit/Theory. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues involving literary criticism and critical theory. Writing proficiency within this discipline is required for a passing grade in this course.

EN 455. Advanced Studies In Writing. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on the process of writing. The forms this writing may take include, but are not limited to, film, creative non-fiction, autobiography, and local color. May be repeated a maximum of 9 hours.

EN 456. Writing Center Theory and Research. 3 sem. hrs.
This course augments the professional practice of Writing Center staff with assigned readings, writing assignments, and discussions. Theory and research intensive.

EN 466. Advanced Studies In Linguistics. 3 sem. hrs.
Designed for English majors, a special topics course that focuses on issues in linguistics. A frequent topic is language and culture.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 477. Adv Studies Literary Genres. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in genre criticism. Writing proficiency within this discipline is required for a passing grade in this course.

EN 488. Adv Stdy African American Lit. 3 sem. hrs.
Designed for the advanced English major, a special topics course that focuses on issues in African American literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 499. Honors Thesis. 3 sem. hrs.
The Honors Thesis in English course is an individualized, directed readings class that culminates in a 30-50 pp. thesis. It is the final required course for the Honors in English program. Each student enrolled will work individually with a faculty mentor. Prerequisite(s): EN 399.

Department of Gender and Race Studies

The Department of Gender and Race Studies offers the bachelor of arts (BA) degree in African American Studies and minors in African American Studies and Women's Studies. The major and minor in African American Studies are interdisciplinary and address the history, politics, and social problems in national and transnational perspective. The courses in the major and minor encourage students to use a variety of approaches to study the complex issues that arise in connection to the lives of African Americans. The Women's Studies minor is also interdisciplinary and is designed to provide knowledge of the roles and status of women in historical and contemporary society, to conduct and encourage research and writing by and about women, and to offer skills and information for increasing employment opportunities for women.

African American Studies Major

Office: 104 Manly Hall
as.ua.edu/grs/programs/african-american-studies-program
grs@as.ua.edu

Degree Requirements

The University of Alabama and The University of Alabama at Birmingham offer a joint degree in African American studies. Students earning the bachelor of arts (BA) degree with a major in African American studies must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in African American studies requires the successful completion of the following 33 semester hours:

		Hours
AAST 201 or	Intro African Amer Study	3
AMS 201	Intro African Amer Study	
AAST 319 or	19th Century Black History	3
HY 319	19th Century Black History	
AAST 320 or	20th Century Black History	3
HY 320	20th Century Black History	
AAST 401	Black Intellectual Thought	3
Select one of the following:		3
AAST 303	Education Of Southern Blacks	3
AAST 352	Social Inequality	3
AAST 436	Gender and Black Masculinity	3
Select two of the following:		6
AAST 280	Rock, Soul & Country	3
AAST 302	The Black Church	3
AAST 340	Women in the South	3
AAST 395	Special Topics	3
AAST 402	Special Topics	3-9
AAST 435	Black Feminism	3
AAST 490	AAST Independent Study	1-6
AAST 495	Special Topics	3
AAST electives or other approved electives *		12

*Students may substitute the following courses when the focus and title is on African American or racial topics:

AMS 202	African American Lives	3
AMS 300	Special Topics	3
AMS 321	African American Folk Art	3
AMS 340	Women In The South	3
AMS 341	African American Art	3
AMS 402	Special Topics	3
AMS 405	Directed Study	1-3
AMS 492	American Topic Seminar	3
ARH 481	Topics 20th Century Art	3
CJ 303	Minorities Crim Soc Just	3
COM 395	Special Topics	3
COM 413	Communication & Diversity	3
COM 415	African American Rhetoric	3
COM 467	Seminar Public Address	3
COM 495	Special Topics	3-6
EN 249	African American Literature	3
EN 311	Special Topics In Literature	3
EN 350	Topics In African American Lit	3
EN 488	Adv Stdy African American Lit	3
GY 344	Geography Of Africa	3
HY 200	Special Studies in Hy	1-3
HY 300	Special Studies in History	3
HY 400	Special Studies in History	1
PSC 364	African Amer & Polit Sys	3
REL 237	Self Society & Religions	3
REL 480	Seminar Religion In Cullture	3
SW 351	Oppression & Soc Injustice	3
WS 240	Culture Sou Blk Women	3
WS 310	Special Topics	3

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on the UA or UAB campus.

Ancillary Courses

This major does not require ancillary courses.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

A minimum of 18 hours of 300- or 400-level courses in the major must be completed, nine hours of which must be at the 400 level. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level courses is junior standing or higher or permission of the instructor.

Special Opportunities

Students have the opportunity to complete internships in a variety of settings. Students should contact the program office for more information. Students are strongly encouraged to enroll in a research methods course and to take advantage of study abroad opportunities.

African American Studies Minor

Office: 104 Manly Hall
as.ua.edu/grs/programs/african-american-studies-program
grs@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in African American studies requires the successful completion of the following 21 semester hours:

		Hours
AAST 201 or	Intro African Amer Study	3
AMS 201	Intro African Amer Study	
AAST 249 or	African-American Literature	3
EN 249	African American Literature	
Select one of the following:		3
AAST 319 or	19th Century Black History	3
HY 319	19th Century Black History	
AAST 320 or	20th Century Black History	3
HY 320	20th Century Black History	
Select one of the following:		3
AAST 352	Social Inequality	3
AAST 436	Gender and Black Masculinity	3
AAST electives or other approved electives *		9

*Students may substitute the following courses when the focus and title is on African American or racial topics:

AMS 202	African American Lives	3
AMS 300	Special Topics	3
AMS 321	African American Folk Art	3
AMS 340	Women In The South	3
AMS 341	African American Art	3
AMS 402	Special Topics	3
AMS 405	Directed Study	1
AMS 492	American Topic Seminar	3
ARH 481	Topics 20th Century Art	3
CJ 303	Minorities Crim Soc Just	3
COM 395	Special Topics	3
COM 413	Communication & Diversity	3
COM 467	Seminar Public Address	3
COM 495	Special Topics	3
EN 311	Special Topics In Literature	3
EN 488	Adv Stdy African American Lit	3
GY 344	Geography Of Africa	3
HY 200	Special Studies in Hy	1
HY 300	Special Studies in History	3
HY 400	Special Studies in History	1
PSC 364	African Amer & Polit Sys	3
REL 237	Self Society & Religions	3
REL 480	Seminar Religion In Cullture	3
SW 351	Oppression & Soc Injustice	3
WS 240	Culture Sou Blk Women	3
WS 310	Special Topics	3

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level courses is junior standing or higher or permission of the instructor.

Special Opportunities

Students have the opportunity to complete internships in a variety of settings. Students should contact the program office for more information. The program also offers occasional study abroad opportunities.

Women's Studies Minor

Office: 104 Manly Hall
as.ua.edu/grs/programs/womens-studies-program
womenstudies@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in women's studies requires the successful completion of the following 18 semester hours:

		Hours
WS 200	Intro To Women Studies	3
WS 430 or	Women Contemp Society	3
WS 470	Gender Race And Class	
WS elective 300 or 400 level		3
WS elective or approved elective *		9
Total Hours		18

*Related courses such as AMS 340 Women In The South, COM 340 Rhetoric & Popular Culture, COM 425 Gender & Political Communctn, COM 469 Communication & Gender, EN 373 Women In Literature, NEW 415 Gender, Sexuality &Pop Culture, PY 371 Psychology Of Gender and other approved courses may be applied to the women's studies minor. For approved electives, contact the department chair.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Chair

McKnight, Utz

Associate professors

Purvis, Jennifer

Marouan, Maha

Assistant professor

Shoaff, Jennifer

African American Studies (AAST) Courses

AAST 100. "Call and Response": Exploring African American Cultural Experience. 1 sem. hr.
This course is designed to generate student interest and excitement in African American Studies by giving students opportunities to explore facets of African American cultural experiences. Following an interdisciplinary approach, this course will allow students to discover the rich diversity of African American cultural practices such as music, visual arts, literature, storytelling, dance, and religious practice. This course allows students at UA and UAB to experience the expertise of faculty from both institutions. It is also web-enhanced and has components on both UA's and UAB's BlackBoard systems for which UA and UAB students will access.

AAST 201. Intro African Amer Study. 3 sem. hrs.
A basic outline of the diversity and complexity of the African-American experience in the United States: the early academic and social concerns of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation and multiculturalism; and its major theoretical and critical debates.

AAST 202. African American Lives. 3 sem. hrs.
A cultural approach to African American lives, exploring the role of the individual, biography, and narrative in African American history and culture.

AAST 226. Themes from Africa to America. 3 sem. hrs.
An examination of the spread of religious life in the African America's emphasizing present institutions and practices; its African roots, its shape and function during slavery and its development from Emancipation to the present.

AAST 249. African-American Literature. 3 sem. hrs.
Survey of African American literature from its earliest expressions to the present. In order to identify the aesthetics of the African American literary tradition, the course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.

AAST 280. Rock, Soul & Country. 3 sem. hrs.
This course examines three dominant American popular music genres with particular emphasis on race, gender, class and region.

AAST 302. The Black Church. 3 sem. hrs.
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AAST 303. Education Of Southern Blacks. 3 sem. hrs.
A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AAST 319. 19th Century Black History. 3 sem. hrs.
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

AAST 320. 20th Century Black History. 3 sem. hrs.
The interrelationship of blacks and the industrial-urban environment of the United States.

AAST 321. African American Folk Art. 3 sem. hrs.
This course will focus on analysis of object, created by African Americans variously classified as folk, self-taught, outsider artists. Material will address African origins. American transformations of traditional arts and crafts.

AAST 340. Women in the South. 3 sem. hrs.
Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories, and novels written by and about women in the 19th- and 20th-century South.

AAST 341. African American Art. 3 sem. hrs.
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the women's movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AAST 350. Topics African American Lit. 3 sem. hrs.
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

AAST 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

AAST 395. Special Topics. 3 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 400. Gender & Black Masculinity. 3 sem. hrs.
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST 401. Black Intellectual Thought. 3 sem. hrs.
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.
Prerequisite(s): AAST 201 and AMS 201.

AAST 402. Special Topics. 3-9 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 413. Communication And Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency within this discipline is required for a passing grade in this course.

AAST 415. African American Rhetoric. 3 sem. hrs.
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.

AAST 435. Black Feminism. 3 sem. hrs.
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200.

AAST 436. Gender and Black Masculinity. 3 sem. hrs.
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST 488. Adv Study African-Amer Lit. 3 sem. hrs.
A special topics course that focuses on issues in African American literature.

AAST 490. AAST Independent Study. 1-6 sem. hr.
Independent study on any subject pertaining to African-American studies, under the supervision of a professor in the chosen field and/or Director of the program.

AAST 495. Special Topics. 3 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.
Prerequisite(s): AAST 201.

Women's Studies (WS) Courses

WS 200. Intro To Women Studies. 3 sem. hrs.
An interdisciplinary course examining the roles of women in patriarchal society, with emphasis on how factors such as race, class, gender, and sexuality contribute to the oppression of women and ways they can be challenged through feminist critical practices.

WS 205. Women'S Autobiographies. 3 sem. hrs.
Through an examination of women's autobiographical writings, the roles women have assumed in different cultures and periods are considered. Analytical techniques from the study of art, literature and psychology are used to discover issues inherent in women's experiences.

WS 220. Mothers And Daughters. 3 sem. hrs.
Investigation of the institution of motherhood, the forces shaping it, and the significance of mother-daughter relationships.

WS 240. Culture Sou Blk Women. 3 sem. hrs.
The history and culture of black women in the South are examined through essays, creative writing, film, music, first-person narrative, and field research.

WS 310. Special Topics. 3 sem. hrs.
Changing topics: for example, women and work, women in the world, social inequality.

WS 340. Women And Law. 3 sem. hrs.
This seminar's major focus is the impact of law on the status and lives of women.

WS 342. Women in the South. 3 sem. hrs.
Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories and novels written by and about women in the 19th and 20th -century South. Writing proficiency within this discipline is required for a passing grade in this course.

WS 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

WS 410. Essential Writings & Readings. 3 sem. hrs.
Essential readings and writings for female equality. Assignments focus on the publications and activities of feminist pioneers from the Enlightenment through the suffragist/abolitionist movement and contemporary period. Writing proficiency within this discipline is required for a passing grade in this course.

WS 430. Women Contemp Society. 3 sem. hrs.
Considers major economic, sociological, psychological, and philosophical approaches to the study of women. Emphasis is on the formulation of theories.

WS 435. Black Feminism. 3 sem. hrs.
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200.

WS 440. Seminar Women'S Studies. 3-9 sem. hrs.
Courses under this rubric are designed to meet a specific need and supplement regular offerings.

WS 450. Independent Study. 1-6 sem. hr.
Independent study on any subject pertaining to women, under the supervision of a professor in the chosen field and/or the program director.

WS 470. Gender Race And Class. 3 sem. hrs.
A cross-cultural approach to the study of gender, race, and class discrimination. Focuses on the mutually reinforcing forces of oppression.

Department of Geography

The Department of Geography offers majors in environmental science and geography. The major in geography may culminate in either a bachelor of arts (BA) degree or a bachelor of science (BS) degree. The department also offers a minor in geography, a minor in geographic information systems, and certificate programs in geographic information systems or regional and urban planning.

Geography Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in geography must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in geography (BA) requires the successful completion of the following 36 semester hours:

		Hours
GY 101	Atmospheric Proc & Patterns	4
GY 102	Earth Surface Processes	4
GY 105	World Regional Geography	3
GY 110	Prin Human Geography	3
GY 204	Map & Air Photo Interpretation	4
GY concentration *		12
GY electives		6
Total Hours		36

*Students must earn a minimum of 12 hours from one of the following three concentrations:

Concentration I: Earth System Science (minimum of 12 hours)**

		Hours
GY 363	Geomorphology	3
GY 402	Climatology	3
GY 404	Physical Geography Seast Us	3
GY 407	Boundary Layer Climates	3
GY 409	Forest History and Restoration	4
GY 412	Hydroclimatology	3
GY 413	Applied Climatology	3
GY 472	Soil Science	4
GY 486	Watershed Dynamics	3
GY 489	Forest Ecology Veg Analy	4
GY 492	Eastern Forest Communities	4
GY 493	Plant Geography	4
GY 494	Forest Measurement and Analysis	4

Concentration II: Regional, Urban and Environmental Planning (minimum of 12 hours)**

		Hours
GY 200	Principles Of Planning	3
GY 339	Natural Resource Envirmn Plang	3
GY 341	Geography Of Us And Canada	3
GY 344	Geography Of Africa	3
GY 351	Geography Of Alabama	3
GY 358	Urban Geography	3
GY 365	Industrial Develop & Location	3
GY 377	Cultural Geography	3
GY 440	Commun Facil Planning	3
GY 441	Land Use Regulations	3
GY 444	Field Studies In Africa	6
GY 452	Environ Decision Making	3
GY 453	Environment & Society	3
GY 455	Planning Practicum	3-9
GY 456	Planning Internship	3-9
GY 458	Urban Planning And Analysis	3
GY 460	Environmental Management	3
GY 461	Social Impact Assessment	3
GY 465	Region Planning Analysis	3
GY 466	Region Urban Transport Systems	4
GY 488	Planning & Government	3

Concentration III: Geographic Information Techniques (minimum of 12 hours)**

		Hours
GY 330	Computr Mapping Graphics	4
GY 420	Remote Sensing I	4
GY 430	Intro Geographic Info Systems	4
GY 435	Remote Sensing II	4
GY 436	Adv Geographic Info Syst	4
GY 438	Application Issues In Gis	4

Additional Electives

		Hours
GY 317	Natural Hazards	3
GY 370	Special Topics	3
GY 405	Dir Res Physical Geog	1-3
GY 406	Dir Res Human Geography	1-3
GY 424	Cartography Practicum	3-9
GY 425	Cartography Internship	3-9
GY 431	GIS in Emergency Management	4
GY 432	Spec Research In Geog	1-4
GY 433	Gis Practicum	3-9
GY 434	Gis Internship	3-9
GY 442	GIS in Biogeography	4
GY 470	Special Topics	3
GY 490	Geography Internship	3-9

** With approval, topic appropriate GY 470 Special Topics may be substituted.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

The geography major requires completion of a minor.

Additional Major Requirements

A maximum of 3 hours of internship or practicum credit can be applied to the major. Each geography course applied to the 36-hour requirement must be completed with a grade of C- or higher. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department of Geography offers internship opportunities with the Geological Survey of Alabama and local planning agencies. The department also offers certificate programs in geographic information systems (GIS) and in regional and urban planning. Additional information is available in the Department of Geography office.

Geography Major (BS)

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in geography must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in geography (BS) requires the successful completion of the following 36 semester hours:

		Hours
GY 101	Atmospheric Proc & Patterns	4
GY 102	Earth Surface Processes	4
GY 105	World Regional Geography	3
GY 110	Prin Human Geography	3
GY 204	Map & Air Photo Interpretation	4
GY concentration *		12
GY electives		6
Total Hours		36

*Students must earn at least 12 hours from one of the following concentrations:

Concentration I: Earth System Science (minimum of 12 hours)**

		Hours
GY 363	Geomorphology	3
GY 402	Climatology	3
GY 404	Physical Geography Seast Us	3
GY 407	Boundary Layer Climates	3
GY 409	Forest History and Restoration	4
GY 412	Hydroclimatology	3
GY 413	Applied Climatology	3
GY 472	Soil Science	4
GY 486	Watershed Dynamics	3
GY 489	Forest Ecology Veg Analy	4
GY 492	Eastern Forest Communities	4
GY 493	Plant Geography	4
GY 494	Forest Measurement and Analysis	4

Concentration II: Regional, Urban and Environmental Planning (minimum of 12 hours)**

		Hours
GY 200	Principles Of Planning	3
GY 339	Natural Resource Envirmn Plang	3
GY 341	Geography Of Us And Canada	3
GY 344	Geography Of Africa	3
GY 351	Geography Of Alabama	3
GY 358	Urban Geography	3
GY 365	Industrial Develop & Location	3
GY 377	Cultural Geography	3
GY 440	Commun Facil Planning	3
GY 441	Land Use Regulations	3
GY 444	Field Studies In Africa	6
GY 452	Environ Decision Making	3
GY 453	Environment & Society	3
GY 455	Planning Practicum	3-9
GY 456	Planning Internship	3-9
GY 458	Urban Planning And Analysis	3
GY 460	Environmental Management	3
GY 461	Social Impact Assessment	3
GY 465	Region Planning Analysis	3
GY 466	Region Urban Transport Systems	4
GY 488	Planning & Government	3

Concentration III: Geographic Information Techniques (minimum of 12 hours)**

		Hours
GY 330	Computr Mapping Graphics	4

GY 420	Remote Sensing I	4
GY 430	Intro Geographic Info Systems	4
GY 435	Remote Sensing II	4
GY 436	Adv Geographic Info Syst	4
GY 438	Application Issues In Gis	4

Additional Electives

		Hours
GY 317	Natural Hazards	3
GY 370	Special Topics	3
GY 405	Dir Res Physical Geog	1-3
GY 406	Dir Res Human Geography	1-3
GY 424	Cartography Practicum	3-9
GY 425	Cartography Internship	3-9
GY 431	GIS in Emergency Management	4
GY 432	Spec Research In Geog	1-4
GY 433	Gis Practicum	3-9
GY 434	Gis Internship	3-9
GY 442	GIS in Biogeography	4
GY 470	Special Topics	3
GY 490	Geography Internship	3-9

** With approval, topic appropriate GY 470 Special Topics may be substituted.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in geography culminating in a bachelor of science (BS) degree requires the successful completion of the following courses outside the major:

Select one from the following:		3
ST 260	Statistical Data Analysis	
PY 211	Elem Statistical Methods	
BER 345	Educational Statistics	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	

Required Minor

The geography major requires completion of a minor.

Additional Major Requirements

A maximum of three hours of internship or practicum credit can be applied to the major. Each geography course applied to the 36-hour requirement must be completed with a grade of C- or higher. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department of Geography offers internship opportunities with the Geological Survey of Alabama and local planning agencies. The department also offers certificate programs in geographic information systems (GIS) and in regional and urban planning. Additional information is available in the Department of Geography office.

Environmental Science Major (BS)

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in Environmental Science must complete all University, College and departmental degree requirements. This includes the general education requirements, the following major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in Environmental Science (BS) requires the successful completion of the following 49 core hours:

		Hours
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 118	Honors General Biology I	
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	4
BSC 120	Honors Gen Biology II	
BSC 385	General Ecology	3
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
GEO 101	The Dynamic Earth	4
GEO 105	Sustainable Earth	4
GY 101	Atmospheric Proc & Patterns	4
GY 102	Earth Surface Processes	4
GY 204	Map & Air Photo Interpretation	4
Select one of the following:		3
GY 339	Natural Resource Envirmn Plang	
GY 441	Land Use Regulations	
GY 452	Environ Decision Making	
GY 453	Environment & Society	
GY 460	Environmental Management	
GY 461	Social Impact Assessment	
GY 420 or	Remote Sensing I	4
GY 430	Intro Geographic Info Systems	
PY 211 or	Elem Statistical Methods	3
ST 260	Statistical Data Analysis	
Total Hours		49

* Students must earn at least 16 hours of upper division electives from the following list of courses in GY, GEO and BSC:

GY 363	Geomorphology	3
GY 404	Physical Geography Seast Us	3
GY 405	Dir Res Physical Geog	1-3
GY 409	Forest History and Restoration	4
GY 412	Hydroclimatology	3
GY 413	Applied Climatology	3
GY 470	Special Topics	3
GY 472	Soil Science	4
GY 483	Environment Science Internship	3-9
GY 486	Watershed Dynamics	3
GY 489	Forest Ecology Veg Analy	4
GY 492	Eastern Forest Communities	4
GY 493	Plant Geography	4
GY 494	Forest Measurement and Analysis	4
GEO 306	Hydrogeology	3
GEO 363	Geomorphology	3
GEO 399	Undergraduate Research	1-6
GEO 404	Quatenary Climate and Envrmnt	3
GEO 410	Soil & Groundwater Restoration	3
GEO 424	Topics In Geology	1-4
GEO 446	Scientific Computing	3

BSC 320	Freshwater Studies	4
BSC 325	Tropical Plant Diversity	4
BSC 360	Plant Biology	4
BSC 373	Vertebrate Zoology	4
BSC 376	Invertebrate Zoology	4
BSC 386	General Ecology Lab	2
BSC 398	Undergraduate Research	1-4
BSC 412	Limnology	3
BSC 414	Dendrology	3
BSC 415	Wetland Ecology	3
BSC 417	Environmental Modeling	3
BSC 428	Biology Of Fishes	4
BSC 434	Plant Systematics	4
BSC 456	Microbial Ecology	3
BSC 471	Plant Physiology	3
BSC 472	Mycology	4
BSC 475	General Entomology	4
BSC 476	Aquatic Insects	4
BSC 480	Plant Ecology	3
BSC 482	Conservation Biology	3
BSC 483	Evolution	3
BSC 484	Aquatic Biology Seminar	1
BSC 490	Stream Ecology	4
BSC 497	Special Topics	1-4

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in environmental science requires the successful completion of the following course outside the major:

MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	

Required Minor

The environmental science major does not require a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Geography Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in geography requires the successful completion off the following 18 semester hours:

		Hours
GY 101 or	Atmospheric Proc & Patterns	4
GY 102	Earth Surface Processes	
GY 105 or	World Regional Geography	3
GY 110	Prin Human Geography	
GY electives 300 or 400 level		9
GY electives		2
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Internship or practicum credit hours cannot be applied to the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Geographic Information Systems Minor (GIS)

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in geographic information systems requires the successful completion of the following 20 semester hours:

		Hours
The following courses are required:		16
GY 330	Computr Mapping Graphics	
GY 420	Remote Sensing I	
GY 430	Intro Geographic Info Systems	
CS 150	Programming I	
CS 250	Programming II	
Select 1 of the following courses:		4
GY 435	Remote Sensing II	
GY 436	Adv Geographic Info Syst	
GY 438	Application Issues In Gis	
Total Hours		20

Upper-level Residency

A minimum of six semester hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor requires the following ancillary courses:

GY 204	Map & Air Photo Interpretation	4
MATH 112	Precalculus Algebra	3

Additional Minor Requirements

The minor in geographic information systems is not open to geography majors in the geographic information techniques concentration (III). Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the Department of Geography for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Interdisciplinary Environmental Studies Minor

New College and Department of Geography

Department of Geography, 202 Farrah Hall
as.ua.edu/geography
geography@as.ua.edu

New College
201 Lloyd Hall
as.ua.edu/nc
newcollege@as.ua.edu

The objective of the interdisciplinary environmental studies minor is to provide undergraduates with interdisciplinary training in environmental studies. Drawing on the humanities, the social sciences and the natural sciences, this minor acquaints students with current environmental problems and the tools of analysis to identify causes and solutions.

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in interdisciplinary environmental studies requires the successful completion of a minimum of 17 semester hours including the following:

		Hours
NEW 215 or	Perspec. on Env. Literature	3-4
GY 452	Environ Decision Making	
NEW 230	Environmental Studies	4
Electives *		10-11
Total Hours		17-19

*Students must earn 10–11 hours chosen from the following courses:

BSC 385	General Ecology	3
BSC 482	Conservation Biology	3
EC 480	Econ Of Environment	3
GEO 105	Sustainable Earth	4
GEO 363	Geomorphology	3
GEO 401	Paleoclimatology	3
GY 453	Environment & Society	3
NEW 226	Organic Farming	4
NEW 310	Independent Study	1-15
NEW 490	Special Topics	3-4

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Chair and Professor

Sherman, Douglas J.

Professors

Bryan, C. Hobson

Han, Luoheng

Wilson, Bobby M.

Associate Professors

Appiah-Opoku, Seth

Richetto, Jeffrey P.

Steinberg, Michael K.

Weber, Joe

Assistant Professors

Cohen, Sagy

Davis, Lisa

Hart, Justin

Senkbeil, Jason

Instructors

Tinnon, Vicki

Wallace-Pitts, Mary

Courses

GY 101. Atmospheric Proc & Patterns. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

GY 102. Earth Surface Processes. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

GY 105. World Regional Geography. 3 sem. hrs.
Introduction to geography through a survey of the world's major geographic regions. Examines their physical and cultural features, economies, and populations.

GY 110. Prin Human Geography. 3 sem. hrs.
Introduction to geography as a science for learning the fundamentals of human behavior and decision making. Examines how human events, natural resources, economies, development, and urbanization impact the way humankind lives, organizes its space, and makes decisions for the future.

GY 155. Freshman Seminar. 3 sem. hrs.
Analysis of selected contemporary global issues and forces that shape our local communities and the world in which we live, including population, natural resources, agriculture, environmental change, and terrorism.

GY 200. Principles Of Planning. 3 sem. hrs.
Survey of the basic elements of regional and urban planning. Provides a comprehensive overview of the planning profession.

GY 204. Map & Air Photo Interpretation. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Fundamentals of map reading and interpretation.

GY 317. Natural Hazards. 3 sem. hrs.
Examination of the causes, consequences, and spatial distribution of climatic, geomorphic, and human-induced natural hazards.
Prerequisite(s): GY 101 or GY 102.

GY 330. Computr Mapping Graphics. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduction to computer graphics and their application in both the natural and social sciences, with special emphasis on mapping. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 339. Natural Resource Envirmn Plang. 3 sem. hrs.
Analyzes human interactions with the physical environment and ways of dealing with them. Integrates environmental science, social science, and planning, and includes environmental impact assessment.

GY 341. Geography Of Us And Canada. 3 sem. hrs.
Study of the physical and human geography of the United States and Canada.

GY 344. Geography Of Africa. 3 sem. hrs.
Study of the physical and human geography of Africa.

GY 346. Geography of Europe. 3 sem. hrs.
This course is designed to provide a regional survey of Europe in terms of economic activities and the physcial environment. Special emaphasis is on the historical development of European landscapes.

GY 351. Geography Of Alabama. 3 sem. hrs.
Study of the varied geographical dimensions of the state of Alabama, both past and present.

GY 358. Urban Geography. 3 sem. hrs.
Examines the growth of cities, their spatial distributions, internal dynamics, functional bases, and social and political patterns.
Prerequisite(s): GY 110.

GY 363. Geomorphology. 3 sem. hrs.
Study of physical, chemical and biological processes operating at the Earth's surface and landforms, and the landscapes such processes develop.
Prerequisite(s): GY 102 or GEO 101.

GY 365. Industrial Develop & Location. 3 sem. hrs.
Systematic study of the principles and processes underlying the development, location, and spatial organization of economic activities from both a national and international perspective. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): GY 110.

GY 370. Special Topics. 3 sem. hrs.

GY 377. Cultural Geography. 3 sem. hrs.
Study of the way in which culture influences elements of both physical and human landscapes with emphasis on how cultures are spread over space and how cultures make sense of space.
Prerequisite(s): GY 105 or GY 110.

GY 402. Climatology. 3 sem. hrs.
Introduce the fundamentals of the earth-atmosphere system as they comprise the climate of Earth, drive spatral and temporal climate variability, and impact human life.
Prerequisite(s): GY 101.

GY 404. Physical Geography Seast Us. 3 sem. hrs.
A study of the physical landscapes in the southeastern United States. Emphasis is on the geological setting, geomorphic features, climate, soils, and vegetation, and the interrelationships of these conditions that shape the landscape in this region.
Prerequisite(s): GY 101 and GY 102; or GEO 101.

GY 405. Dir Res Physical Geog. 1-3 sem. hr.
Hands-on, problem solving in the field of physical geography.

GY 406. Dir Res Human Geography. 1-3 sem. hr.
Hands-on, problem solving in the field of human geography.

GY 407. Boundary Layer Climates. 3 sem. hrs.
Introduce the nature of the atmosphere near the ground and the interactions these processes have with the physical, biological, and human systems on Earth.
Prerequisite(s): GY 402.

GY 409. Forest History and Restoration. 4 sem. hrs.
This course covers the theories, tools and techniques used in historical ecology with a focus on the establishment of reference conditions for habitat conservation and restoration efforts.
Prerequisite(s): GY 101 or GY 102.

GY 412. Hydroclimatology. 3 sem. hrs.
To provide a basic understanding of the waters of Earth, especially with relation to the effects of precipitation and evaporation upon the occurence and character of water in streams, lakes and on or below the land surface
Prerequisite(s): GY 101 and GY 402.

GY 413. Applied Climatology. 3 sem. hrs.
Applied Climatology is a senior level course designed to expand upon fundamental concepts learned in GY 101 and also GY 402 (Climatology). Within this broad field, a specific focus in GY 413 concentrates upon climate and human health/behavior. The course contains a mixture of lecture, lab, and field assignments.
Prerequisite(s): GY 101.

GY 420. Remote Sensing I. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduction to the basic principles of electromagnetic radiation, interaction between energy and earth features, remote sensing instruments, and information extraction from remotely sensed data. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 424. Cartography Practicum. 3-9 sem. hrs.
Individual work experience in cartography, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 424 cannot be applied to the geography minor.

GY 425. Cartography Internship. 3-9 sem. hrs.
Individual work experience on a cartographic project, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 425 cannot be applied to the geography minor.

GY 430. Intro Geographic Info Systems. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduces the basic concepts of GIS, including definition and components of GIS, spatial data structures, data sources, data input, manipulation and analysis, applications of GIS, and managing GIS. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 431. GIS in Emergency Management. 4 sem. hrs.
Addresses geo-spatial data, methods, and software used in mitigation, planning, response, and recovery phases of emergency management. Case studies and scenarios are drawn from meteorological, environmental, geological, and biological hazards and disasters.
Prerequisite(s): GY 430.

GY 432. Spec Research In Geog. 1-4 sem. hr.

GY 433. Gis Practicum. 3-9 sem. hrs.
Individual work experience in GIS, supervised by the faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 433 cannot be applied to the geography minor.

GY 434. Gis Internship. 3-9 sem. hrs.
Individual work experience in GIS, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 434 cannot be applied to the geography minor.

GY 435. Remote Sensing II. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Analysis and extraction of thematic information from nonphotographic remotely sensed data for geographic information systems. Topics include image processing, image enhancement, and image classification. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 420.

GY 436. Adv Geographic Info Syst. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Evaluation of case studies, spatial model development, and database design for geographic information systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 430.

GY 438. Application Issues In Gis. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. In-depth study of various topics in the application and technical issues of geographic information systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 430.

GY 440. Commun Facil Planning. 3 sem. hrs.
Principles, processes, and analysis of public facility location planning, with emphasis on the spatial search process, impact analysis, and public facility location models.

GY 441. Land Use Regulations. 3 sem. hrs.
Theory and use of zoning, eminent domain, taxing and police powers, enabling acts, charters, official maps, codes, nuisance ordinances, and environmental impact statements in community planning.
Prerequisite(s): GY 200.

GY 442. GIS in Biogeography. 4 sem. hrs.
Addresses the application of GIS data and methods in analyzing geographic distribution and trends of plants and animals. Labs draw data and methods from a variety of biogeographic contexts including historical, modern, terrestrial, marine, conservation, and climate change.
Prerequisite(s): GY 430.

GY 444. Field Studies In Africa. 6 sem. hrs.
Three-week intensive field study in Ghana. Explores geographical perspectives on Africa's level of development and the responses of the African peoples to their circumstances.

GY 452. Environ Decision Making. 3 sem. hrs.
Review of the history of natural resources in the U.S. and current environmental topics, followed by discussion of techniques to facilitate environmental decision making and management.

GY 453. Environment & Society. 3 sem. hrs.
Exploration of the linkages between the biophysical environment and human social systems. Public policy implications are viewed from a social science perspective. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): GY 110.

GY 455. Planning Practicum. 3-9 sem. hrs.
Individual work experience in planning, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 455 cannot be applied to the geography minor.

GY 456. Planning Internship. 3-9 sem. hrs.
Individual work experience in planning, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 456 cannot be applied to the geography minor.

GY 458. Urban Planning And Analysis. 3 sem. hrs.
A study of contemporary urban landscapes, political and economic power structures, and resultant conflicts. Includes an in-depth analysis of the role of externalities, the urban planner, urban policymaking, and analytical methods in the planning and administration of urban landscapes.

GY 460. Environmental Management. 3 sem. hrs.
Introduces students to the impact of humans on the planet and the patterns of human behavior necessary to preserve and manage the environment in a self-sustaining manner. Emphasis is on writing and speaking.
Prerequisite(s): GY 101.

GY 461. Social Impact Assessment. 3 sem. hrs.
This course focuses on the theories, philosophies, and methodologies of assessing the social consequences of environmental change.
Prerequisite(s): GY 101 and SOC 101.

GY 465. Region Planning Analysis. 3 sem. hrs.
Principles and processes of regional planning and the analytical methods appropriate for solving regional planning problems. Case studies and the role of the planner in the regional planning process are discussed.

GY 466. Region Urban Transport Systems. 4 sem. hrs.
Examines the location and function of the multimodal North American transportation system, the urban transportation planning process and methodologies. Assesses the political and environmental contexts of transport systems, including impacts of continued reliance on the automobile.

GY 470. Special Topics. 3 sem. hrs.

GY 472. Soil Science. 4 sem. hrs.
Three hours lecture and required field and lab work. Introduction to the study of soils, including soil formation, classification, and the interpretation of soils to reconstruct environmental histories.

GY 483. Environment Science Internship. 3-9 sem. hrs.
Individual work experience in environmental science, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 483 cannot be applied to the geography minor.

GY 486. Watershed Dynamics. 3 sem. hrs.
An examination of the physical operation of watersheds focusing on surface water hydrology, erosion, and sedimentation.
Prerequisite(s): GY 102.

GY 488. Planning & Government. 3 sem. hrs.
Examines the planning process within the context of local government.
Prerequisite(s): GY 200.

GY 489. Forest Ecology Veg Analy. 4 sem. hrs.
Three hours lecture and required field work. Study of the nature of forest communities and the interrelationship of organisms that compose them.

GY 490. Geography Internship. 3-9 sem. hrs.
Work experience in an agency involved in geographical analysis. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 490 cannot be applied to the geography minor.

GY 492. Eastern Forest Communities. 4 sem. hrs.
This course is focused on the biotic and abiotic elements that create distinct forest communities throughout the Central Hardwood and Southern Mixed Forest Regions of the eastern UA. The class includes lecture, lab, and field formats.
Prerequisite(s): GY 101 or GY 102 or BSC 114.

GY 493. Plant Geography. 4 sem. hrs.
This course covers basic biotic and abiotic terrestrial ecosystem components, environmental gradients, plant distribution patterns, dispersal, colonization, and migration, disturbance processes, and applications to biodiversity conservation.
Prerequisite(s): GY 101 or GY 102 or BSC 114.

GY 494. Forest Measurement and Analysis. 4 sem. hrs.
Prerequisite(s): GY 489 or BSC 385.

Department of Geological Sciences

The Department of Geological Sciences offers undergraduate majors leading to the bachelor of arts (BA), bachelor of science (BS) and bachelor of science in geology (BSG) degrees, as well as a double major in marine science/geological science. An undergraduate minor is also offered. Honors programs are available for the bachelor of science and bachelor of science in geology degrees.

Geology Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in geology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in geology culminating in a BA degree requires successful completion of the following 30 semester hours:

		Hours
GEO 101	The Dynamic Earth	4
GEO 102	The Earth Through Time	4
GEO electives 300 or 400 level		12
GEO electives		10
Total Hours		30

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses.

Required Minor

The geology major (BA) requires completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

The Department supports a Geology Club in which students participate in educational, social and community service activities, often including field trips. Additionally, undergraduates are encouraged to conduct laboratory and field research under the direction of faculty.

Geology Major (BS)

Degree Requirements

Students earning the bachelor of science (BS) degree must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total 128 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in geology culminating in the BS degree requires the successful completion of the following 36 semester hours:

		Hours
GEO 101	The Dynamic Earth	4

GEO 102	The Earth Through Time	4
GEO 210	Mineralogy	4
GEO 314	Ign. & Meta. Petrology	4
GEO 365	Structural Geology	3
GEO 367	Sedimentology/Stratigraphy	4
GEO 495	Field Geology	6
GEO electives		7
Total Hours		36

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. This major requires successful completion of the following courses outside the major:

CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
PH 105 or	General Physics W/Calc I	4
PH 125	Honors Gen Ph W/Calculus	
PH 106 or	Generl Physics W/Calc II	4
PH 126	Honors Gen Ph W/Calculus	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 238	Appld Diff Equations I	3

Required Minor

The geology major (BS) requires completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an advisory in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

Interested students pursuing a major in geology (BS or BSG) can apply for admission to the geological sciences honors program after earning 13 hours of geological science courses. In addition to meeting the major requirements for BS or BSG, participants must maintain a 3.3 GPA for all geological science courses and 3.0 cumulative GPA. Honors students earn a grade of Pass or Fai” in the honors seminars (GEO 435 Honors Sem In Geology and GEO 436 Honors Sem In Geology). They must also complete six hours of honors research (GEO 499 Research In Geology) and present the results in the honors seminar. Students should also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member of the Department of Geological Sciences.

Geology Major (BSG)

Degree Requirements

Students earning the bachelor of science in geology degree (BSG) must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, and other sufficient credits to total 128 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in geology culminating in the bachelor of science in geology degree the requires successful completion of the following 45 semester hours:

		Hours
GEO 101	The Dynamic Earth	4
GEO 102	The Earth Through Time	4
GEO 210	Mineralogy	4
GEO 314	Ign. & Meta. Petrology	4
GEO 365	Structural Geology	3
GEO 367	Sedimentology/Stratigraphy	4
GEO 495	Field Geology	6
Select two of the following:		6
GEO 355	Invertebrate Paleontology	
GEO 369	Introduction Geophysics	
GEO 470	General Geochemistry	
GEO electives		10
Total Hours		45

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. This major requires successful completion of the following courses outside the major:

CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	

Required Minor

The major in geology for the BSG degree does not require a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Special Opportunities

Interested students pursuing a major in geology (BS or BSG) can apply for admission to the geological sciences honors program after earning 13 hours of geological science courses. In addition to meeting the major requirements for BS or BSG, participants must maintain a 3.3 GPA for all geological science courses and 3.0 cumulative GPA. Honors students earn a grade of Pass or Fail in the honors seminars (GEO 435 Honors Sem In Geology and GEO 436 Honors Sem In Geology). They must also complete six hours of honors research (GEO 499 Research In Geology) and present the results in the honors seminar. Students should also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member of the Department of Geological Sciences.

Geology Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in geology requires a minimum of 18 semester hours including the following:

		Hours
GEO 101	The Dynamic Earth	4
GEO 102	The Earth Through Time	4
GEO electives 300 or 400 level		6
GEO electives		4
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be completed on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Chair

Çemen, Ibrahim

Professors

Ahron, Paul, Loper Chair

Zheng, Chunmiao, Lindahl Professor

Benson, D. Joe, Vice President, Research

Donahoe, Rona J.

Stowell, Harold H.

Associate Professors

Andrus, C. Fred T.

Goodliffe, Andrew M.

Robinson, Delores M.

Tick, Geoffrey R.

Asssistant Professors

Ewing, Ryan

Hansen, Samantha

Lu, Yuehan

Perez-Huerta, Alberto

Visiting Assistant Professor

Dimova, Natasha

Full-time Instructor

Keene, Deborah

Part-time Instructors

Hooks, Gary

Whitaker, Laura

Professors Emeriti

Groshon, Richard

Hooks, Gary

Mancini, Ernest

Stock, Carl

Courses

GEO 101. The Dynamic Earth. 4 sem. hrs.
'Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.

GEO 102. The Earth Through Time. 4 sem. hrs.
Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.

GEO 104. Hazardous Earth. 4 sem. hrs.
This natural science course examines geologic and other Earth hazards that impact humans and ways that human activities often increase these hazards. The course consists of lecture and lab, and includes field trips and videos that illustrate various natural hazards.

GEO 105. Sustainable Earth. 4 sem. hrs.
Three lectures and one laboratory. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment. Includes discussion of water pollution, air pollution and waste disposal as primary issues related to resource utilization.

GEO 210. Mineralogy. 4 sem. hrs.
Two lectures and two laboratories. Introduction to crystallography, crystal chemistry, rock-forming minerals, physical properties of minerals, hand sample mineral identification, and optical mineralogy. Offered in the fall semester.
Prerequisite(s): CH 101 and GEO 101.

GEO 306. Hydrogeology. 3 sem. hrs.
Introduction to the principles of groundwater flow, groundwater exploration, water quality, and groundwater contamination; environmental topics in groundwater. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 314. Ign. & Meta. Petrology. 4 sem. hrs.
Three lectures and one laboratory. Megascopic and microscopic study of igneous and metamorphic rocks, with emphasis on identification, classification, genesis, and relationships to tectonism. Offered in the spring semester.
Prerequisite(s): GEO 210.

GEO 355. Invertebrate Paleontology. 3 sem. hrs.
Two lectures and one laboratory. Study of the taxonomy and morphology of major invertebrate fossil groups. Offered in the spring semester.
Prerequisite(s): GEO 101 and GEO 102.

GEO 363. Geomorphology. 3 sem. hrs.
Two lectures and one laboratory. Study of landforms with emphasis on the basic geomorphic processes that contribute to their origin. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 365. Structural Geology. 3 sem. hrs.
Two lectures and one laboratory. An introductory study of the deformation of rocks, including mechanical principles, description and identification of folds and faults, map interpretation, and regional tectonics. Offered in the fall semester.
Prerequisite(s): GEO 101 and PH 101.

GEO 367. Sedimentology/Stratigraphy. 4 sem. hrs.
Three lectures and one laboratory. Study of the principles involved in the description and classification of sedimentary rocks and stratigraphic units, with emphasis on sedimentary processes and depositional environments. Offered in the spring semester.
Prerequisite(s): GEO 102 and GEO 210.

GEO 369. Introduction Geophysics. 3 sem. hrs.
Introduction to the major fields of exploration geophysics such as seismology, isostasy, heat flow, gravity and magnetic prospecting, and electrical methods. The course includes both principles and applications to petroleum, mining, and environmental problems. Offered in the fall semester.
Prerequisite(s): MATH 125 and PH 101 and GEO 101.

GEO 399. Undergraduate Research. 1-6 sem. hr.
A maximum of 4 hours can be applied toward the major in geology. Approval of the department chairperson is required prior to registration. Offered according to demand.

GEO 401. Paleoclimatology. 3 sem. hrs.
Survey of the history of global climate change and the methods used to measure paleoclimate in the geological record. Offered in the Spring semester.
Prerequisite(s): GEO 101 or GEO 102.

GEO 404. Quatenary Climate and Envrmnt. 3 sem. hrs.
Outline of the climatological and environmental history of the past two million years, focusing on causes and impact of glacial and shorter oscillations. Offered according to demand.
Prerequisite(s): GEO 401.

GEO 407. Seismology. 3 sem. hrs.
This course provides an overview of earthquake seismology for both upper-level and graduate geo-science students. Topics include elastic wave propagation, seismic ray theory, travel time interpretations, surface wave dispersion, and seismic tomography.
Prerequisite(s): MATH 126.

GEO 410. Soil & Groundwater Restoration. 3 sem. hrs.
Methods for restoring contaminated soil groundwater by examining the factors and processes influencing the efficacy of remediation systems. Emphasis placed on the scientific principles upon which soil and groundwater remediation is based.
Prerequisite(s): GEO 101 and CH 101 or CH 117 and CH 102 or 118.

GEO 416. Volcanology. 3 sem. hrs.
Study of the physical properties of magmas, eruptive mechanisms, volcanic products, and the relationship between volcanism and tectonism. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 420. Petroleum Geology. 3 sem. hrs.
Introduction to the origin, migration, accumulation, and entrapment of petroleum. Emphasis is on sedimentary, geochemical, and hydrodynamic processes. Offered in the spring semester of even-numbered years.
Prerequisite(s): GEO 365 and GEO 367.

GEO 421. Geology & History of W Turkey. 3 sem. hrs.
This two week long course will emphasize environmental geology history, geoarchaeology, and natural hazards of the Greco-Roman city states in Western Anatolia. It will concentrate on the effects of geology and natural hazards in the decline and eventual fall of these large city states and cultural centers.

GEO 424. Topics In Geology. 1-4 sem. hr.
Special topics in the following areas: economic geology, geochemistry, geophysics, geomorphology, hydrogeology, mineralogy, paleontology, petrology, sedimentology, stratigraphy, structural geology, and tectonics. Offered according to demand.

GEO 430. Ore Deposits. 3 sem. hrs.
Introduction to sedimentary hydrothermal, metasomatic, and magnetic ore deposits, including geologic setting and genesis. Offered on demand.
Prerequisite(s): GEO 210.

GEO 435. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the fall semester.

GEO 436. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the spring semester.

GEO 445. Multich. Seismic Proc. 4 sem. hrs.
Introduction to multichannel seismic data acquisition, processing, and interpretation. Includes the theory of wave propagation, time series analysis, and filtering. Lab is problem-based using real-world data and examples. Offered according to demand.
Prerequisite(s): MATH 125 and PH 102.

GEO 446. Scientific Computing. 3 sem. hrs.
This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages. Offered according to demand.

GEO 470. General Geochemistry. 3 sem. hrs.
Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered in the Spring semester.
Prerequisite(s): GEO 314.

GEO 476. Analytical Geochemistry. 3 sem. hrs.
Theory, techniques, and applications of geochemical methods for the analysis of rocks, soils, and aqueous fluids. Offered according to demand.

GEO 490. Seminar Regional Geology. 1-3 sem. hr.
Seminar on and field trip to important geologic localities. May be repeated for credit. Offered according to demand.

GEO 492. Geologc Field Writg Tech. 2 sem. hrs.
Introduction to the methods of field geology, geology of the southeastern U.S., geological writing, and presentation techniques. Offered according to demand.
Prerequisite(s): GEO 367.

GEO 495. Field Geology. 6 sem. hrs.
Five-week field course involving the application of geologic techniques and principles. Includes geologic mapping, data collection, and report writing. Offered during the first summer term.
Prerequisite(s): GEO 314 and GEO 365 and GEO 367.

GEO 497. Geological Internships. 3 sem. hrs.
A maximum of 4 hours can be applied toward the major in Geology. Field and laboratory projects with government and industry. Offered according to demand.
Prerequisite(s): GEO 101 and GEO 102 or GEO 105.

GEO 499. Research In Geology. 1-4 sem. hr.
Offered according to demand.

Department of History

The Department of History offers a bachelor of arts (BA) degree and a minor in history, as well as departmental honors to those who qualify for this program.

History Major

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in history must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in history requires the successful completion of the following 36 semester hours:

		Hours
Select one of the following: [1]		3
HY 101	Western Civ To 1648	
HY 105	Honors West Civ To 1648	
HY 110	Comparative World Civ	
HY 102 or	Western Civ Since 1648	3
HY 106	Honors West Civ Sc 1648	
HY 203 or	Amer Civilizatn To 1865	3
HY 205	Honors Amer Civ To 1865	
HY 204 or	Amer Civilizatn Sc 1865	3
HY 206	Honors Amer Civ Sc 1865	
HY 430	UG Research Seminar [2]	3
Field requirement [3]		9
HY electives		12
Total Hours		36

1 Western Civ To 1648 (HY 101) or Honors West Civ To 1648 (HY 105) is preferred, but Comparative World Civ (HY 110) can substitute.

2 A minimum grade of C is required to receive credit for HY 430 UG Research Seminar. Students who complete a history honors thesis (HY 489/499) are exempt from this requirement.

3 Fields: A minimum of 3 hours from each of the following fields must be completed for a total of 9 hours.

Field 1: United States History*

HY 225	Hy Alabama To 1865	3

HY 226	Hy Alabama From 1865	3
HY 295	Us Naval History	3
HY 312	American South Before 1865	3
HY 313	American South Since 1865	3
HY 314	Coming Of The Civil War	3
HY 315	The Civil War	3
HY 316	Life & Legend Abraham Lincoln	3
HY 318	U S Since 1945	3
HY 319	19th Century Black History	3
HY 320	20th Century Black History	3
HY 323	Us Constitut Hy To 1877	3
HY 324	Us Constitut Hy Sc 1877	3
HY 325	Us-World Power To 1898	3
HY 326	Us-World Power Sc 1898	3
HY 330	Civil Rights Movement	3
HY 341	Hy Us - Vietnam War	3
HY 408	Colonial Us To 1763	3
HY 409	Amer Rev/New Nation	3
HY 411	Comp. Slavery & Emancipation	3
HY 413	Mexican War Thru Civil War	3
HY 416	Us Fr Recons To Wwar I	3
HY 417	Us From Ww I To Wwii	3
HY 424	American Though Before 1860	3
HY 425	American Thought since 1860	3
HY 427	Women in Early America	3
HY 428	Women In America	3
HY 429	Spanish Frontier in N. America	3
HY 432	Gender and Native Americans: Beyond Pocohontas	3
HY 480	Survey Of Military History	3

Field 2: European History*

HY 235	Christ Church To 1500	3
HY 236	Christ Church Sc 1500	3
HY 247	England To 1688	3
HY 321	Religion In Modern Europe	3
HY 349	History of France 1760-present	3
HY 357	World War I	3
HY 358	World War II	3
HY 361	Russia To 1894	3
HY 362	Russia-Soviet Union Since 1894	3
HY 365	European Consumer Society	3
HY 385	History Of Greece	3
HY 386	History Of Rome	3
HY 390	Survey Of Irish History	3
HY 393	British Emp & Commonwealth	3
HY 442	The Middle Ages	3
HY 443	Renaissance	3
HY 444	Reform & Counter-Reformation	3
HY 446	Age Of Reason 1715-89	3
HY 447	French Revln & Napoleon	3
HY 448	Women in Europe since 1750	3
HY 451	Early Modern Germany	3
HY 481	War/Dipl. in Med & Mod. Eur	3
HY 482	War & Religion in the West	3
HY 490	England Under Tudors	3
HY 491	England Under Stuarts	3
HY 493	Britain In 18th Century	3
HY 494	Britain In The Victorian Age	3

Field 3: African, Asian or Latin American History*

HY 237	Colonial Latin America	3
HY 238	Modern Lat Am Sc 1808	3
HY 243	History of Asia to 1400	3
HY 244	History of Asia Since 1400	3
HY 306	Hy Of Oriental Thought	3
HY 377	Mexico since 1810	3
HY 384	Ancient Egypt Near East	3
HY 402	Modern Japan Since 1550	3
HY 403	Chinese Civiliz To 1600	3
HY 404	Modern China Since 1600	3
HY 471	Age Exploration & Conquest	3
HY 474	Relation Us Latin Amer	3
HY 475	Caribbean Basin 1492 - Present	3
HY 476	Hy Religion In Latin America	3

* Depending on the content, HY 200, Special Studies in History (HY 300), HY 301, HY 395, HY 399, Special Studies in History (HY 400), HY 430, HY 498, and HY 499 can also fulfill this requirement.

Upper-level Residency

A minimum of 15 semester hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The history major does not require ancillary courses. However, it is recommended that students, especially those considering graduate work in history, study at least one foreign language.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

History 200-, 300- and 400-level courses are open to all students of sophomore standing or higher.

Special Opportunities

The Department of History sponsors a club that is open to all students. It also sponsors a chapter of Phi Alpha Theta, the history honorary society. Phi Alpha Theta is open to both majors and non-majors who have junior standing or above, have completed at least 12 hours in history with a GPA of 3.3 or above, and have a cumulative GPA of at least 3.0.

Honors Program

The history honors program is open to history majors who have a cumulative GPA of at least 3.0, a 3.3 GPA or above in history, and at least 12 hours of HY courses completed. The program requires nine hours of honors work, including HY 399 History Honors Colloquium, a six-hour thesis (HY 498 Honors Thesis I and HY 499 Honors Thesis II) to be completed under the direction of a tenured or tenure-track member of the department. HY 399 History Honors Colloquium is usually taken in the junior year; HY 498 Honors Thesis I and HY 499 Honors Thesis II are typically completed in the senior year. Students who complete a History Honors thesis (HY 498/HY499) are exempt from HY 430 UG Research Seminar requirement. In order to graduate with honors in history, students must have a cumulative GPA of at least 3.0, a 3.3 GPA or above in history, and satisfactory completion of a thesis judged to merit an honors designation.

History Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in history requires the successful completion of the following 21 semester hours:

		Hours
Select one of the following: *		3
HY 101	Western Civ To 1648	
HY 105	Honors West Civ To 1648	
HY 110	Comparative World Civ	
HY 102 or	Western Civ Since 1648	3
HY 106	Honors West Civ Sc 1648	
HY electives 300 or 400 level		9
HY electives		6
Total Hours		21

* Western Civ To 1648 (HY 101) or Honors West Civ To 1648 (HY 105) is preferred, but Comparative World Civ (HY 110) can substitute.

Upper-level Residency

A minimum of nine hours of 300- and 400-level courses in this minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

History 200-, 300- and 400-level courses are open to all students of sophomore standing or higher.

Faculty

Chair and Professor

Frederickson, Kari

Director of Graduate Studies in History

Giggie, John M.

Director, Undergraduate Studies in History

Mixson, James

Director of the Frances S. Summersell Center for the Study of the South

Rothman, Joshua

Charles G. Summersell Chair in Southern History

Rable, George C.

University Research Professor

Freyer, Tony A.

Jones, Howard

Professors

Beeler, John F.

Beito, David T.

Clayton, Lawrence A.

McClure, George W.

Mendle, Michael J.

Associate Professors

Abruzzo, Margaret N.

Bunker, Steven B.

Huebner, Andrew J.

Kohl, Lawrence F.

Lindquist-Dorr, Lisa

Selesky, Harold E.

Assistant professors

Chapman, Ian

Cribelli, Teresa

Grout, Holly

Holmes-Tagchungdarpa, Amy

Kopelson, Heather

Peacock, Margaret

Riches, Daniel L.

Shaw, Jenny

Wasserman, Ian Janek

Courses

HY 101. Western Civ To 1648. 3 sem. hrs.
A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe. Usually offered in the summer session.

HY 102. Western Civ Since 1648. 3 sem. hrs.
Covers the development of the Western world from the Thirty Years' War to the post-World War II era: the age of absolutism, the Enlightenment, the French Revolution, industrialization and the wars of the 20th century. Usually offered in the summer session.

HY 103. America Civilization to 1865. 3 sem. hrs.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 104. Am Civ Since 1865. 3 sem. hrs.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 105. Honors West Civ To 1648. 3 sem. hrs.
Honors sections of HY 101.

HY 106. Honors West Civ Sc 1648. 3 sem. hrs.
Honors sections of HY 102.

HY 107. Honors Am Civ to 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 203.

HY 108. Honors Am Civ Sc 1865. 3 sem. hrs.
An honors-level approach to the American experience.

HY 110. Comparative World Civ. 3 sem. hrs.
Examines various civilizations in the world prior to A.D. 1500 and compares their governments, societies, economies, religions, science, learning, and technology. History majors may substitute HY 110 for HY 101 to satisfy part of the Western civilization requirement.

HY 111. Colonial Latin America. 3 sem. hrs.
Formation of the largely Spanish speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 112. Modern Latin Am Since 1808. 3 sem. hrs.
Survey of political, economic, and social life in the 19th and 20th centuries with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 113. Asian Civilization to 1400. 3 sem. hrs.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan and Southeast Asian, with large cultural and religious emphases.

HY 114. Modern Asia since 1400. 3 sem. hrs.
Conditions of various Asian civilizations in the 15th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism and Asian nationalism.

HY 115. History of Science to 1687. 3 sem. hrs.
This course will explore the origins and evolution of science and technology and the relationship both had to the societies that produced them. In addition to reading foundational texts in the history of science, like Aristotle and Galileo, we will address larger themes, including the relationship between science and religion and the role of science and scientists in the societies that produced them.

HY 116. History of Science Since 1687. 3 sem. hrs.
Science and technology are ever-present in today's world, defining not only how we live our daily lives but also shaping our conceptions and evaluations of modernity, civilization, and progress. How did science and technology become so important and pervasive to the modern world? This course is intended as an introduction to the history of modern science and technology from the Enlightenment to the present. Our focus will be on the development of science and technology in the Western World (Europe and North America). However, we will also make comparisons across cultures to explore how science and technology shaped notions of what counts as "Western" and "modern." In addition to learning about key developments in the history of science and technology, from Ford's Model-T to Einstein's theory of relativity, we will address larger themes, including the relationship between science and religion and the role of technology in war and empire.

HY 200. Special Studies in Hy. 1-3 sem. hr.

HY 203. Amer Civilizatn To 1865. 3 sem. hrs.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 204. Amer Civilizatn Sc 1865. 3 sem. hrs.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 205. Honors Amer Civ To 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 203. Open to freshmen.

HY 206. Honors Amer Civ Sc 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 204. Open to freshmen.

HY 225. Hy Alabama To 1865. 3 sem. hrs.
State history under the flags of Spain, France, Great Britain, the U.S., and the Confederate States, with emphasis on cultural heritage.

HY 226. Hy Alabama From 1865. 3 sem. hrs.
Survey of Alabama's history and personalities since 1865: Reconstruction, agrarian revolt, Progressivism, the KKK, Dixiecrats and the Civil Rights movement.

HY 235. Christ Church To 1500. 3 sem. hrs.
Survey of the Christian church from its origins in the Middle East through its victory over the Roman Empire and its ascendancy in the Middle Ages.

HY 236. Christ Church Sc 1500. 3 sem. hrs.
Cultural and institutional history of the Christian church with emphasis on the Reformation and Counter-Reformation and discussion of the church in the New World.

HY 237. Colonial Latin America. 3 sem. hrs.
Formation of the largely Spanish-speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 238. Modern Lat Am Sc 1808. 3 sem. hrs.
Survey of political, economic, and social life in the 19th and 20th centuries, with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 243. History of Asia to 1400. 3 sem. hrs.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan, and Southeast Asia, with largely cultural and religious emphases.

HY 244. History of Asia Since 1400. 3 sem. hrs.
Conditions of various Asian civilizations in the 16th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism, and Asian nationalism.

HY 247. England To 1688. 3 sem. hrs.
History of Western civilization in one country, from Anglo-Saxon times to the growth of absolutism and resistance.

HY 248. England Since 1688. 3 sem. hrs.
England from the Glorious Revolution to the post-World War II era, with emphasis on social and cultural topics as well as foreign affairs.

HY 295. Us Naval History. 3 sem. hrs.
Traces the development of the U.S. Navy from sailing ships to nuclear vessels, and relates it to political and economic conditions and to wars throughout American history.

HY 300. Special Studies in History. 3 sem. hrs.

HY 301. Independent Study. 1-3 sem. hr.
Directed study done by special arrangement with a faculty member of the History Department. Requires sophomore standing and permission of the instructor.

HY 306. Hy Of Oriental Thought. 3 sem. hrs.
Examination of major developments and trends in Asian cultural and intellectual history. Topics vary.

HY 312. American South Before 1865. 3 sem. hrs.
The South from colonial times to the Civil War, tracing the growth of the plantation system, extension of the frontier, commerce and industry, cultural influences, and the institution of slavery.

HY 313. American South Since 1865. 3 sem. hrs.
History of the South since 1865, covering Reconstruction, the Bourbon Democracy, the New South Creed, populist revolt, World War I, the 1920s, the Great Depression, the civil rights movement, and Southern politics.

HY 314. Coming Of The Civil War. 3 sem. hrs.
American history from 1815 to 1861, giving special emphasis to the development of a distinctive American culture and the factors within that culture that led to the Civil War.

HY 315. The Civil War. 3 sem. hrs.
The military, political, diplomatic, social, and intellectual aspects of the Civil War years, and the impact of the war on subsequent American history.

HY 316. Life & Legend Abraham Lincoln. 3 sem. hrs.
The life and legend of the man often considered to be the representative American.

HY 318. U S Since 1945. 3 sem. hrs.
Topical survey of the economic, social, political, and cultural developments in the United States since World War II.

HY 319. 19th Century Black History. 3 sem. hrs.
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

HY 320. 20th Century Black History. 3 sem. hrs.
The interrelationship of blacks and the industrial-urban environment of the United States.

HY 321. Religion In Modern Europe. 3 sem. hrs.
A survey of religious thought and practice in Europe since 1750.

HY 323. Us Constitut Hy To 1877. 3 sem. hrs.
Deals with the evolution of constitutional law and the nature and process of judicial review, including 18th-century constitutional theory and Supreme Court decisions.

HY 324. Us Constitut Hy Sc 1877. 3 sem. hrs.
Continuation of HY 323, tracing developments up to the current Supreme Court.

HY 325. Us-World Power To 1898. 3 sem. hrs.
Emphasizes idealism and realism in foreign policy, the change from isolationism to international involvement, "New Manifest Destiny," and the rise of America to world power.

HY 326. Us-World Power Sc 1898. 3 sem. hrs.
Emphasizes American international involvement through the Panama Canal, the Roosevelt Corollary, World War I and the League of Nations, Pearl Harbor and World War II, the Cold War, Vietnam War, and after.

HY 330. Civil Rights Movement. 3 sem. hrs.
History of the leaders, organizations, and events of the Civil Rights Movement during the years 1945 to 1968.

HY 331. Religion and Civil Rights. 3 sem. hrs.
Religion and Civil Rights studies the civil rights movement in Tuscaloosa and West Alabama. Students examine how religious beliefs and institutions undergirded the movement and then partner with a local black church to tell its history under segregation. Students will interview older congregants about their lives during Jim Crow, transcribe the interviews, and synthesize their research a book for the church.

HY 341. Hy Us - Vietnam War. 3 sem. hrs.
Survey of the historical background of the conflict in Indochina leading to U.S. involvement and its consequences.

HY 349. History of France 1760-present. 3 sem. hrs.
This course examines majro trends in the social, cultural, economic and political history of modern France. Major themes include: republicanism and citizenship, nationalism, daily life, war, class conflict, consumerism, imperialism, the arts and gender.
Prerequisite(s): HY 102 or HY 106.

HY 355. German History Sc 1740. 3 sem. hrs.

HY 357. World War I. 3 sem. hrs.
The war to end all wars," from the European crises culminating at Sarajevo in 1914 to peacemaking at Versailles in 1919, with emphasis on the western and eastern fronts and on the war at sea.

HY 358. World War II. 3 sem. hrs.
The global conflict, or series of conflicts, from Manchukuo in 1931 to Tokyo Bay in 1945, with emphasis on battles on land and sea and in the air, life on the home fronts and in enemy-occupied areas, and the legacy of the war to future generations. Writing proficiency within this discipline is required for a passing grade in this course.

HY 361. Russia To 1894. 3 sem. hrs.
Political history of Russia from the ninth to the 19th centuries, followed by social and cultural history of the Russian revolutionary movement.

HY 362. Russia-Soviet Union Since 1894. 3 sem. hrs.
Crisis in Russian society and the coming of the Revolution; the emergence of Stalinism; and political developments since World War II, including the disintegration of the Soviet system.

HY 365. European Consumer Society. 3 sem. hrs.
This coruse explores the evolution of modern Europe's consumer society from the 18th century to the present to understand how changing patterns of consumption fostered new relationships between individuals and the material world.
Prerequisite(s): HY 102 or HY 106.

HY 377. Mexico since 1810. 3 sem. hrs.
Mexican Independence, the Constitution of 1824, Santa Anna, revolutions in the 19th and 20th centuries, and contemporary Mexico.

HY 384. Ancient Egypt Near East. 3 sem. hrs.

HY 385. History Of Greece. 3 sem. hrs.

HY 386. History Of Rome. 3 sem. hrs.

HY 390. Survey Of Irish History. 3 sem. hrs.
A comprehensive look at the Irish experience from prehistoric times to the present.

HY 393. British Emp & Commonwealth. 3 sem. hrs.
Rise and fall of the British Empire: its creators, bureaucracy, wars, ideas, and the forces that transformed it. Writing proficiency within this discipline is required for a passing grade in this course.

HY 395. History Colloquium. 3 sem. hrs.
Intensive reading, writing, and discussion on special topics in history.

HY 399. History Honors Colloquium. 3 sem. hrs.
Focuses on the discipline of history itself. Will examine some of the fundamental questions about what history is and why the study of history matters. Subject matter varies by term.

HY 400. Special Studies in History. 1-6 sem. hr.
Writing proficiency within this discipline is required for a passing grade in this course.

HY 402. Modern Japan Since 1550. 3 sem. hrs.
Major emphasis on the end of the Tokugawa Period (1800-1868), the rise of modernized Japan in the Meiji Period (1868-1912) and the 20th century.

HY 403. Chinese Civiliz To 1600. 3 sem. hrs.
Survey of Chinese culture from the Shang period through the Ming period.

HY 404. Modern China Since 1600. 3 sem. hrs.
Survey of Chinese history in the Ch'ing Dynasty and the 20th century with emphasis on 19th- and 20th-century events.

HY 408. Colonial Us To 1763. 3 sem. hrs.
Topical survey of major themes in U.S. colonial history, with particular emphasis on Anglo-American developments.

HY 409. Amer Rev/New Nation. 3 sem. hrs.
The development of revolutionary sentiment in the North American colonies, the resulting revolution, and the subsequent efforts to establish the new nation. Writing proficiency within this discipline is required for a passing grade in this course.

HY 411. Comp. Slavery & Emancipation. 3 sem. hrs.
Explores the development of slavery and teh struggles for emancipation in the Americas 1400-1900. Focusing on how race, gender and region shaped experiences.
Prerequisite(s): HY 203 or HY 205.

HY 413. Mexican War Thru Civil War. 3 sem. hrs.
Examines how Americans thought about and used armed force from 1845 to 1865.Writing proficiency within this discipline is required for a passing grade in this course.

HY 416. Us Fr Recons To Wwar I. 3 sem. hrs.
Selected topics relating to the development of the U.S., especially domestic affairs and the growth of important institutions.

HY 417. Us From Ww I To Wwii. 3 sem. hrs.
Covers U.S. participation in two world wars, the Roaring Twenties, and the Great Depression. Government, society, and culture receive attention and analysis.

HY 424. American Though Before 1860. 3 sem. hrs.
American intellectual/cultural history to 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency is required to pass. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 203 or HY 205.

HY 425. American Thought since 1860. 3 sem. hrs.
American intellectual/cultural history since 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 204 or HY 206.

HY 427. Women in Early America. 3 sem. hrs.
Explores women's lives from European settlement to 1877 with attention to ideologies about women's roles and the influences of region, race, class and ethnicity.
Prerequisite(s): HY 203 or HY 205.

HY 428. Women In America. 3 sem. hrs.
Examines the experiences of women from mid-nineteenth century to present with special attention to ideologies about women's roles and effects of region, race, class and ethnicity.
Prerequisite(s): HY 204 or HY 206.

HY 429. Spanish Frontier in N. America. 3 sem. hrs.
History of the Spanish advance into the present-day borders of the U.S., explaining how Spain fought and finally succumbed to the more dynamic and aggressive French and English.

HY 430. UG Research Seminar. 3 sem. hrs.
This course will offer training in historical methods and theory. It will culminate in a 15 page research paper and oral presentation. Writing proficiency within this discipline is required for a passing grade in this course.

HY 432. Gender and Native Americans: Beyond Pocohontas. 3 sem. hrs.
Explores contact between Native Americans and Europeans in the early Americas through attention to gender, stressing the diversity of Native life ways.
Prerequisite(s): HY 203 or HY 205.

HY 442. The Middle Ages. 3 sem. hrs.
Foundations of the modern world in barbarian Europe: retreat into the countryside and private government, recovery of public institutions, money economy, and cultural vitality.

HY 443. Renaissance. 3 sem. hrs.
Study of intellectual movements associated with the Renaissance, including readings in Machiavelli's Prince, More's Utopia, and other humanist writings; social life, economy, religion, politics, and statecraft. Writing proficiency within this discipline is required for a passing grade in this course.

HY 444. Reform & Counter-Reformation. 3 sem. hrs.
History of the separation of the Catholic and Protestant churches from the ideal of the universal Christian church and late medieval religious practice. Writing proficiency within this discipline is required for a passing grade in this course.

HY 446. Age Of Reason 1715-89. 3 sem. hrs.
The Enlightenment of Voltaire, Diderot, Rousseau, Franklin, Hume, Goethe, and Kant, whose writings exalted individual reason, tolerance, liberalism, science, and public service and set the stage for the French Revolution.

HY 447. French Revln & Napoleon. 3 sem. hrs.
Causes, course and effects of the revolution, from the storming of the Bastille to Napoleon's seizure of power, conquests and final defeat at Waterloo.

HY 448. Women in Europe since 1750. 3 sem. hrs.
This course surveys women's lives in Europe from 1750 to the present. Themes explored include: identify construction, power relationships, domesticity, class, war, consumerism and sexuality.
Prerequisite(s): HY 102 or HY 106.

HY 451. Early Modern Germany. 3 sem. hrs.
This course examines the political, religious, intellectual, military, cultural and social history of German speaking central Europe from the Eve of the Protestant Reformation to the eve of the French Revolution. Writing proficiency within this discipline is required for a passing grade in this course.

HY 471. Age Exploration & Conquest. 3 sem. hrs.
A history of exploration during the 15th and 16th centuries, when European nations expanded by sea voyages and conquest, settling in the Americas, Africa, and Asia.

HY 474. Relation Us Latin Amer. 3 sem. hrs.
Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

HY 475. Caribbean Basin 1492 - Present. 3 sem. hrs.
Traces the evolution of Caribbean and Central American nations from the first European settlements to the present.

HY 476. Hy Religion In Latin America. 3 sem. hrs.
The history of religion in Latin America from the late fifteenth century through the early twenty-first century.

HY 480. Survey Of Military History. 3 sem. hrs.
Introduction to the ways in which human beings have organized and used armed force over the course of recorded history.

HY 481. War/Dipl. in Med & Mod. Eur. 3 sem. hrs.
This course examines developments in European warface and diplomatic practice in the late medieval and early modern periods. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 101 or HY 102.

HY 482. War & Religion in the West. 3 sem. hrs.
This course examines the complex interrelationships between religion and armed conflict in the Western tradition from the ancient world into modern times. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 101 or HY 102 or HY 105 or HY 106.

HY 490. England Under Tudors. 3 sem. hrs.
Development of an early modern state: establishment of a strong central monarchy, religious crises from the Reformation to the Puritan movement, and exuberance and excess of an expanding society. Writing proficiency within this discipline is required for a passing grade in this course.

HY 491. England Under Stuarts. 3 sem. hrs.
How Englishmen of the 17th century worked out the great questions of their day: Was liberty compatible with strong government? Could English elites share power without destroying it? What did God want for England? Writing proficiency within this discipline is required for a passing grade in this course.

HY 493. Britain In 18th Century. 3 sem. hrs.
From the Hanoverian Succession in 1714 to victory at Waterloo in 1815: political development, the Agrarian and Industrial Revolutions, John Wesley, Samuel Johnson, and an apparently endless succession of wars. Writing proficiency within this discipline is required for a passing grade in this course.

HY 494. Britain In The Victorian Age. 3 sem. hrs.
Britain at her apogee: possessor of the empire on which the sun never set, world economic leader, nation of Peel and Palmerston, Gladstone and Disraeli, Dickens and Trollope, Tennyson and Browning, Turner and Constable.

HY 498. Honors Thesis I. 3 sem. hrs.
Independent research and writing to produce a senior honors thesis in history.

HY 499. Honors Thesis II. 3 sem. hrs.
Independent research and writing to produce a senior honors thesis in history.
Prerequisite(s): HY 399 and HY 498.

Marine Science Program

The College of Arts and Sciences offers interdisciplinary marine science double major programs (marine science/biology, marine science/chemistry and marine science/geology) culminating in the bachelor of science (BS) degree. These double major curricula give the student a focused exposure to include general education requirements, single disciplinary requirements and the interdisciplinary courses that represent studies in the field of marine science. A minor in marine science is available to students whose major fields are biology, chemistry or geology.

Marine Science/Biology Major (BS)

Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu

Degree Requirements

Students earning the bachelor of science (BS) degree in marine science/biology must complete all University, college and departmental degree requirements. These include the general education requirements, the following double major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare both majors no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in each major is required for completion of the degree. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The majors in marine science/biology require the successful completion of the following courses:

		Hours
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 118	Honors General Biology I	
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	4
BSC 120	Honors Gen Biology II	
BSC 300	Cell Biology	3
BSC 315	Genetics	3
BSC 385	General Ecology	3
BSC 450 or	Fundamentals of Biochemistry	3
BSC 483	Evolution	
BSC electives above 250 **		12
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
GEO 101	The Dynamic Earth	4
GEO 102 or	The Earth Through Time	4
GEO 105	Sustainable Earth	
MS 304	Marine Geology	4
MS 306	Marine Biology	4
MS 448	Intro Oceanography	4
MS elective 300 or 400 level *		4
One of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
One of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
Total Hours		72

* Consult the marine science coordinator for appropriate MS electives.

** Other BSC courses numbered 250 and above including two laboratory courses from the following list of laboratory courses (also see "Additional Major Requirements"):

BSC 310	Microbiology	3
BSC 313	Gen Bacteriology Lab	3
BSC 320	Freshwater Studies	4
BSC 360	Plant Biology	4
BSC 373	Vertebrate Zoology	4
BSC 376	Invertebrate Zoology	4
BSC 386	General Ecology Lab	2
BSC 390	Honors Thesis Research	1-8
BSC 396	Resident Study	1-6
BSC 398	Undergraduate Research	1-4
BSC 400	Vertebrate Funct Morphol	4
BSC 414	Dendrology	3
BSC 425	Human Physiology Lab	2
BSC 428	Biology Of Fishes	4
BSC 432	Pathogenic Mibrobiol Lab	3
BSC 434	Plant Systematics	4
BSC 436	Immunology Laboratory	3
BSC 439	Bch/Molecular Biology Lab	3
BSC 442	Integrated Genomics	4
BSC 460	Human Developmental Biology	4
BSC 464	Biology Of Algae	4
BSC 469	Histology Of Vertebrates	4
BSC 472	Mycology	4
BSC 475	General Entomology	4
BSC 476	Aquatic Insects	4

BSC 490	Stream Ecology	4
MS 306	Marine Biology	4
MS 408	Marine Invertebrate Zoology	4
MS 411	Marsh Ecology	4
MS 419	Marine Ecology	4
MS 452	Marine Vertebrate Zoology	4
MS 453	Marine Botany	4

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed in the major GPA. The major in marine science/biology requires the successful completion of the following courses outside the major:

CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
ST 260	Statistical Data Analysis	3

Required Minor

Marine science/biology does not require a minor.

Additional Major Requirements

Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. The biology department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. These courses include:

BSC 391	Tutorial In Biol Science	1-2
BSC 396	Resident Study	1-6
BSC 398	Undergraduate Research	1-4
BSC 403	Intro To Bsc Instruction	2
BSC 404	Honors Intro To Bsc Instruction	2
BSC 407	Honors Seminar In Bsc	1
MS 398	Undergraduate Research	1-6

Beyond specific restrictions listed for each course, a total of four hours from the group above, may be applied to the requirements of the biology major or minor. An additional four hours may be applied as electives to the requirement for 120 hours for the degree.

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Marine Science/Chemistry Major (BS)

Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu
Department of Chemistry
206 Shelby Hall
bama.ua.edu/~chem
chemistry@as.ua.edu

Degree Requirements

Students earning the bachelor of science (BS) degree in marine science/chemistry must complete all University, college and departmental degree requirements. These include the general education requirements, the following double major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare both majors no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in each major is required for completion of the degree. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in marine science/chemistry requires the successful completion of the following courses:

		Hours
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 118	Honors General Biology I	
BSC 116 & BSC 117 or	Principles Biology II and Biology II Laboratory	4
BSC 120	Honors Gen Biology II	
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
CH 338	Elem Organic Chem Lab II	2
CH 340 & CH 343	Elem Physical Chem and Elem Phy Chem Lab	4
CH 461	Biochemistry I	3
CH 462	Biochemistry II	3
CH 463	Biochem-Clin/Foren/Chem	3
GEO 101	The Dynamic Earth	4
GEO 102 or	The Earth Through Time	4
GEO 105	Sustainable Earth	
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
MS 304	Marine Geology	4
MS 306	Marine Biology	4
MS 448	Intro Oceanography	4
MS elective 300 or 400 level *		4
Total Hours		75

* Consult the Marine Science Coordinator for appropriate MS electives.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed in the major GPA. The majors in marine science/chemistry require the successful completion of the following courses outside the major:

MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
ST 260	Statistical Data Analysis	3

Required Minor

Marine science/chemistry does not require a minor.

Additional Major Requirements

Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Marine Science/Geology Major (BS)

Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu
Department of Geological Sciences
202 Bevill Building
geo.ua.edu
geology@as.ua.edu

Degree Requirements

Students earning the bachelor of science (BS) degree in marine science/geology must complete all University, college and departmental degree requirements. These include the general education requirements, the following double major requirements and other sufficient credits to total 128 applicable semester hours.

Admission into the Major

Students are expected to formally declare both majors no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in each major is required for completion of the degree. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in marine science/geology requires the successful completion of the following courses:

		Hours
BSC 114 & BSC 115 or BSC 118	Principles Of Biology I and Laboratory Biology I / Honors General Biology I	4
BSC 116 & BSC 117 or BSC 120	Principles Biology II and Biology II Laboratory / Honors Gen Biology II	4
CH 101 or CH 117	General Chemistry / Honors General Chemistry	4
CH 102 or CH 118	General Chemistry / Honors General Chemistry	4
GEO 101	The Dynamic Earth	4
GEO 102	The Earth Through Time	4
GEO 210	Mineralogy	4
GEO 314	Ign. & Meta. Petrology	4
GEO 365	Structural Geology	3
GEO 367	Sedimentology/Stratigraphy	4
GEO 495	Field Geology	6
Select two of the following:		6
GEO 355	Invertebrate Paleontology	
GEO 369	Introduction Geophysics	
GEO 470	General Geochemistry	
GEO electives		6
MS 304	Marine Geology	4
MS 306	Marine Biology	4
MS 448	Intro Oceanography	4
MS elective 300 or 400 level *		4
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
Total Hours		81

* Consult the Marine Science coordinator for appropriate MS electives.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed in the major GPA. The major in marine science/geology requires the successful completion of the following courses outside the major:

MATH 125 or MATH 145	Calculus I / Honors Calculus I	4
MATH 126 or MATH 146	Calculus II / Honors Calculus II	4
ST 260	Statistical Data Analysis	3

Required Minor

Marine science/chemistry does not require a minor.

Additional Major Requirements

Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Marine Science Minor

Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in marine science requires the successful completion of the following 22 semester hours:

	Hours
Select a sequence in BSC or GEO chosen from:	8

BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
or		
BSC 118	Honors General Biology I	
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	
or		
BSC 120	Honors Gen Biology II	
GEO 101 & GEO 102	The Dynamic Earth and The Earth Through Time	
GEO 101 & GEO 105	The Dynamic Earth and Sustainable Earth	
Select courses from the following:		14
MS 306	Marine Biology	
MS 408	Marine Invertebrate Zoology	
MS 448	Intro Oceanography	
GEO 355	Invertebrate Paleontology	
GEO 367	Sedimentology/Stratigraphy	
Total Hours		22

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does now require ancillary courses.

Additional Minor Requirements

Students are not permitted to count the same required minor course toward completion of a major or second minor. Students may count required ancillary courses toward the requirements of another major. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Biological Sciences (BSC) Courses

BSC 108. Intro Biology Non Maj I. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120). Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 109. Intro Biology Non Maj II. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, or to pre-health professions students. Study of the physiology of living organisms with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. Usually offered fall, spring and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 114. Principles Of Biology I. 3 sem. hrs.
For biology majors, biology minors and pre-health professions students. Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics evolution; and a survey of simple organisms, including viruses, bacteria, protista and fungi. Offered fall, spring and summer. NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 115. Laboratory Biology I. 1 sem. hr.
Prerequisite(s): BSC 114
Prerequisite(s) with concurrency: BSC 114.

BSC 116. Principles Biology II. 3 sem. hrs.
For biology majors, biology minors, and pre-health professions students. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer. NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.
Prerequisite(s): BSC 114 and BSC 118.

BSC 117. Biology II Laboratory. 1 sem. hr.
Prerequisite(s) with concurrency: BSC 116.

BSC 118. Honors General Biology I. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of general biological principles, including the chemical basis of life, cellular biology, genetics, evolution, and a survey of prokaryotic organisms.

BSC 120. Honors Gen Biology II. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of the structure, function, physiology, and ecology of organisms, including higher and lower plants and vertebrates and invertebrate animals.
Prerequisite(s): (BSC 114 OR BSC 118) AND BSC 115.

BSC 215. Human Anatomy & Physiology I. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes cellular aspects; tissues and skin; the skeletal, muscular, nervous and endocrine systems; and the special senses of sight, hearing, taste, and smell.
Prerequisite(s): BSC 108 or BSC 109 or BSC 118 or BSC 120 or BSC 114 and BSC 115; or BSC 116 and BSC 117; or CH 102 or CH 105 or CH 118.

BSC 216. Human Anatomy & Physiology II. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes the respiratory, circulatory, digestive, urinary, and reproductive systems.
Prerequisite(s): BSC 215.

BSC 220. Biol Evol. 3 sem. hrs.
An introductory course on the evidence for evolution, mechanisms of evolutionary change, natural and sexual speciation, and common misconceptions about evolution.

BSC 242. Microbiology And Man. 4 sem. hrs.
For students majoring in nursing, education, and human environmental sciences. Lecture and laboratory. Introduction to microbiology with an emphasis on the relationships between man and protozoa, bacteria, viruses, and fungi. NOTE: Credit will not be granted for both BSC 242 and BSC 310.
Prerequisite(s): CH 101 or CH 104 or CH 117; and CH 102 or CH 105 or CH 118; and BSC 108 or BSC 109 or BSC 114 or BSC 118 or BSC 215 or BSC 216.

BSC 300. Cell Biology. 3 sem. hrs.
The course is designed to provide an understanding of the molecular basis of cell function. Topics include metabolism, gene control, cell membranes, and cell-to-cell signaling.
Prerequisite(s): BSC 114 or BSC 118; and CH 102 or CH 118.

BSC 303. Field Zoology. 3 sem. hrs.
A field-based course with lecture and lab combined. A survey of the taxonomy, ecology, and identification of local biota. Offered irregularly.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 310. Microbiology. 3 sem. hrs.
Lecture and laboratory. Survey course on microorganisms, including protozoa, bacteria, viruses, fungi, and algae. Credit will not be granted for both BSC 310 and BSC 242.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and CH 231.

BSC 311. Gen Bacteriol & Physiol. 3 sem. hrs.
Fundamental course in bacteriology with emphasis on bacterial morphology, physiology, nutrition, and genetics.
Prerequisite(s): BSC 310 and CH 232.

BSC 312. Microbiology Lab. 2 sem. hrs.
General microbiology laboratory to accompany BSC 310.
Prerequisite(s): BSC 310
Prerequisite(s) with concurrency: BSC 310.

BSC 313. Gen Bacteriology Lab. 3 sem. hrs.
Lecture and laboratory. Course presents methods for the isolation, microscopic observation, enumeration, and determination of the biochemical characteristics of bacteria.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 311.

BSC 315. Genetics. 3 sem. hrs.
Study of transmission and function of genes, gene organization, regulation of prokaryotic and eukaryotic genes, and applications of genetics. NOTE: Credit will not be granted for both BSC 309 and BSC 315.
Prerequisite(s): BSC 114 or BSC 118; and CH 101 or CH 117; and CH 102 or CH 118.

BSC 320. Freshwater Studies. 4 sem. hrs.
Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 325. Tropical Plant Diversity. 4 sem. hrs.
The purpose of this course is to familiarize students with the relevant aspects of tropical ecosystems and tropical plants.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120; and BSC 117.

BSC 340. Principles of Natural Resources Conservation. 3 sem. hrs.
Introduces students to basic principles of natural resources conservation, including fundamental concepts in natural resource conservation and management. Examines humanity's past and present impacts on world environments; the influence of culture and the wants, needs, and desires of human beings will be integrated into the material. Discusses conservation of natural resources, including soil, water, air, forests, rangelands, energy, wildlife and fisheries, based on scientific principles.
Prerequisite(s): (BSC 114 and BSC 115 or BSC 118) OR (BSC 116 and BSC 117 or BSC 120).

BSC 360. Plant Biology. 4 sem. hrs.
Lecture and laboratory. Introduction to the biology of embryophytes with emphasis on their development, evolution, and ecology.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 373. Vertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. Introductory course in the study of vertebrate zoology. Subjects included are principles of systematics and nomenclature, a survey of vertebrate taxa, the species concept, analysis of taxonomic characters, and an introduction to zoogeography and behavior.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 376. Invertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. The classification, morphology, evolution, and ecology of invertebrate animals.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 380. Introduction to probability and statistics for biologists. 3 sem. hrs.
This course will provide an introduction to probability and statistical methods that are commonly used in the biological sciences. Practical, real-world examples from biology, ecology, and natural resources management will be used throughout the course. This course is aimed at 300-level students who intend to work with biological data, or anyone interested in statistics. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 125 or MATH 145 and CS 102.

BSC 385. General Ecology. 3 sem. hrs.
A study of the general principles of ecology, covering evolution, autoecology, energetics, nutrient cycling, population dynamics, competition, predation, and community analysis.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145; and BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 386. General Ecology Lab. 2 sem. hrs.
Offered irregularly.
Prerequisite(s): BSC 385
Prerequisite(s) with concurrency: BSC 385.

BSC 390. Honors Thesis Research. 1-8 sem. hr.
Individual research conducted under the direction of an advisor and reported in an acceptable thesis. May be repeated over two to four semesters for a maximum 8 hours.
Prerequisite(s): BSC 315 and BSC 300 and BSC 385BSC 116 and BSC 117; or BSC 120.

BSC 391. Tutorial In Biol Science. 1-2 sem. hr.
Survey of the literature relating to a topic approved by the supervising faculty member; not to include laboratory or field research. A formal paper and/or examination is required. May be taken for one credit hour in each of two consecutive semesters, or for one or two credit hours in any one semester. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 393. Biology Outreach. 2 sem. hrs.
Outreach course that includes survey of the literature relating to a topic approved by instructor. Design of active learning projects to emphasize a basic biological concept and teaching basic science concepts to elementary students.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 396. Resident Study. 1-6 sem. hr.
Prerequisite: Written approval from the department office prior to registration. Credit awarded is determined by the extent of the student's participation but may not exceed 6 hours.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 398. Undergraduate Research. 1-4 sem. hr.
Independent research or research participation. A maximum of 4 hours credit for BSC 398 may be applied to the requirements of the biology and microbiology majors; an additional 4 hours may be taken as elective credit and applied to the 120-hour requirement.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 399. Presentation of UG Research. 2 sem. hrs.
Exploration of the process of presenting research results in different written formats including: abstract, poster, and full journal article. How the needs for clear presentation and response to peer review can inform the experimental process will also be covered.
Prerequisite(s): BSC 398.

BSC 400. Vertebrate Funct Morphol. 4 sem. hrs.
Recommended for pre-health professions students. Lecture and laboratory. The comparative anatomy of the vertebrates with emphasis on functional features of several vertebrate species. Laboratory work deals mainly with identifying anatomical features of several vertebrate species.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 403. Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, formal application, and a satisfactory interview.
Prerequisite(s): BSC 120 or BSC 114 and BSC 115 and BSC 116 and BSC 117.

BSC 404. Honors Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, Honors attribute, formal application, and a satisfactory interview.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; and BSC 116 and BSC 117; or BSC 120.

BSC 407. Honors Seminar In Bsc. 1 sem. hr.
Seminar and discussion. In the first semester, students present seminars based on the current literature. In the second semester, students present seminars derived from their honors theses. A maximum of 4 hours of credit for BSC 407 may be applied to the requirements of the biology or microbiology major. Offered according to demand.

BSC 409. Pre-Health Apprenticeship I. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 410. Pre-Health Apprenticeship II. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 412. Limnology. 3 sem. hrs.
Study of freshwater environments and the organisms that live in lakes, ponds, and streams. May be taken with BSC 413 or separately.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 414. Dendrology. 3 sem. hrs.
Lecture and laboratory. Identification, classification, characteristics, and distribution of the principal forest trees of the United States. Two weekend field trips are required. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 415. Wetland Ecology. 3 sem. hrs.
An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat and plant zonation, and the role of plants in ecosystem function. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 417. Environmental Modeling. 3 sem. hrs.
An integrated study of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving.
Prerequisite(s): MATH 125 and CH 101 or CH 117; and CH 102 or CH 118 and BSC 385.

BSC 420. Principles Of Systematics. 4 sem. hrs.
Introduction to the principles, methods, and applications of systematics to analysis of morphological and molecular data. Includes introduction to biological classifications and nomenclature.
Prerequisite(s): BSC 360 or BSC 373 or BSC 376 or BSC 483.

BSC 424. Human Physiology. 3 sem. hrs.
Topics covered are the digestive, nervous, reproductive, immune, muscular, blood, cardiovascular, respiratory, urinary, and body-fluid systems. May be taken with BSC 425 or separately.
Prerequisite(s): BSC 300.

BSC 425. Human Physiology Lab. 2 sem. hrs.
Hands-on experience for understanding the principles and mechanisms of physiological processes of the human body. Major emphases on organ system performance, whole-body metabolism, and energetics.
Prerequisite(s): BSC 424
Prerequisite(s) with concurrency: BSC 424.

BSC 428. Biology Of Fishes. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 431. Pathogenic Microbiology. 3 sem. hrs.
Study of microorganisms related to health and disease with emphasis on molecular mechanism of pathogenesis. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 432. Pathogenic Mibrobiol Lab. 3 sem. hrs.
Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered in alternate years.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 431.

BSC 434. Plant Systematics. 4 sem. hrs.
Lecture and laboratory. Characteristics and distribution of the major families of vascular plants as well as practice in the collection and identification of flowering plants. One weekend field trip required. Offered in alternate years.
Prerequisite(s): BSC 360.

BSC 435. Immunology. 4 sem. hrs.
Thorough exploration of various aspects of modern immunology at the molecular and cellular levels.
Prerequisite(s): BSC 310.

BSC 436. Immunology Laboratory. 3 sem. hrs.
Practical experience in modern immunological techniques. Offered in alternate years.
Prerequisite(s): BSC 435
Prerequisite(s) with concurrency: BSC 435.

BSC 439. Bch/Molecular Biology Lab. 3 sem. hrs.
Students participate in the generation of new knowledge, thus the experiments vary. Techniques taught include agarose gel electrophoresis, cycle sequencing, sequence analysis, plasmid purification, restriction endonuclease digestion, gel purification of DNA, ligation, transformation, primer design, PCR, gene knockouts, protein fusions, and enzyme assays.
Prerequisite(s): BSC 450.

BSC 441. Developmental Biology. 3 sem. hrs.
The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development.
Prerequisite(s): BSC 300 and BSC 315.

BSC 442. Integrated Genomics. 4 sem. hrs.
An advanced discovery-based laboratory course designed to introduce the process of gene discovery and integrate modern genomics techniques and bioinformatic database usage.
Prerequisite(s): BSC 300 and BSC 315
Prerequisite(s) with concurrency: BSC 315.

BSC 444. General Virology. 3 sem. hrs.
A survey of viruses, viral replication, and viral pathogenesis, including bacterial, animal, and plant viruses. The role of viruses in molecular biology is emphasized.
Prerequisite(s): BSC 300 or BSC 310.

BSC 448. Animal Behavior. 3 sem. hrs.
This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology and economics. However there will be a historical undercurrent which will illustrate the roots of this truly interdisciplinary field.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120; and BSC 385.

BSC 449. Endocrinology. 3 sem. hrs.
A detailed examination of the vertebrate endocrine system that uses a comparative approach to explore intricate relationships between the brain, endocrine glands, hormones and target organs.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 450. Fundamentals of Biochemistry. 3 sem. hrs.
A one-semester survey of protein structure, enzymes, bioenergetics, metabolism and its regulation. Designed for advanced undergraduate students.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120 or ; and BSC 117 and CH 232.

BSC 451. Molecular Biology. 3 sem. hrs.
A one-semester survey of molecular biology that emphasizes gene structure, function, and regulation of expression. Offered spring semester.
Prerequisite(s): BSC 311 or BSC 315; and BSC 450; and CH 462 or.

BSC 456. Microbial Ecology. 3 sem. hrs.
Study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions.
Prerequisite(s): BSC 310 or BSC 385.

BSC 460. Human Developmental Biology. 4 sem. hrs.
Lecture and laboratory. Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis, and functional development. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 464. Biology Of Algae. 4 sem. hrs.
Lecture and laboratory. Freshwater and marine algae: their structure, development, taxonomy, and distribution.
Prerequisite(s): BSC 360 or BSC 310.

BSC 465. Prin Of Toxicology. 3 sem. hrs.
The study of adverse effects of chemicals on living organisms and methods for predicting the likelihood of such effects, including descriptive, mechanistic, and regulatory aspects.
Prerequisite(s): BSC 300 and BSC 315.

BSC 469. Histology Of Vertebrates. 4 sem. hrs.
Lecture and laboratory. Identification of tissue types and components, histogenesis and function of tissues.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 471. Plant Physiology. 3 sem. hrs.
A general survey for upper-level undergraduate students covering all aspects of plant physiology including plant transport, translocation of sugars in plants, plant biochemistry, plant metabolism, plant growth and development, photosynthesis, nitrogen fixation, flowering and plant hormones. The course will consist of lectures, in-class experiments, group discussions, presentations and other activities relating to course material.
Prerequisite(s): BSC 300 and BSC 360.

BSC 472. Mycology. 4 sem. hrs.
Lecture and laboratory. Introduction to the fungi and their biology, including aspects of their structure and function, taxonomy, genetics, and ecology. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 475. General Entomology. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, classification, and habits of insects.
Prerequisite(s): BSC 385.

BSC 476. Aquatic Insects. 4 sem. hrs.
Lecture and laboratory. Survey of aquatic insects with emphasis on their identification, life histories, and ecology. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 480. Plant Ecology. 3 sem. hrs.
This course will examine the ecology of plants at different levels: individual, population and community.
Prerequisite(s): BSC 385 and BSC 360.

BSC 482. Conservation Biology. 3 sem. hrs.
A thorough examination of the principles of conservation biology.
Prerequisite(s): BSC 385.

BSC 483. Evolution. 3 sem. hrs.
Thorough investigation of evolution, including population genetics, molecular evolution, adaptation, and speciation. Offered in the spring semester.
Prerequisite(s): BSC 385 and BSC 315.

BSC 484. Aquatic Biology Seminar. 1 sem. hr.
Review and discussion of current topics in aquatic biology.
Prerequisite(s): BSC 320 and BSC 385; and BSC 412 or BSC 490.

BSC 487. Biogeography. 3 sem. hrs.
Examination of the ecological and historical factors influencing the geographic distribution of plants and animals. Offered alternate years.
Prerequisite(s): BSC 385.

BSC 490. Stream Ecology. 4 sem. hrs.
Lecture and laboratory. Thorough study of the structural (physical and biological) and functional attributes (energy flow, nutrient cycling, community structure) characteristic of stream and river ecosystems. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 497. Special Topics. 1-4 sem. hr.
A biological sciences topic not covered in other courses. The credit hours and format are determined as appropriate to the topic, and a course title is added to the schedule of classes. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

Geological Sciences (GEO) Courses

GEO 101. The Dynamic Earth. 4 sem. hrs.
'Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.

GEO 102. The Earth Through Time. 4 sem. hrs.
Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.

GEO 104. Hazardous Earth. 4 sem. hrs.
This natural science course examines geologic and other Earth hazards that impact humans and ways that human activities often increase these hazards. The course consists of lecture and lab, and includes field trips and videos that illustrate various natural hazards.

GEO 105. Sustainable Earth. 4 sem. hrs.
Three lectures and one laboratory. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment. Includes discussion of water pollution, air pollution and waste disposal as primary issues related to resource utilization.

GEO 210. Mineralogy. 4 sem. hrs.
Two lectures and two laboratories. Introduction to crystallography, crystal chemistry, rock-forming minerals, physical properties of minerals, hand sample mineral identification, and optical mineralogy. Offered in the fall semester.
Prerequisite(s): CH 101 and GEO 101.

GEO 306. Hydrogeology. 3 sem. hrs.
Introduction to the principles of groundwater flow, groundwater exploration, water quality, and groundwater contamination; environmental topics in groundwater. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 314. Ign. & Meta. Petrology. 4 sem. hrs.
Three lectures and one laboratory. Megascopic and microscopic study of igneous and metamorphic rocks, with emphasis on identification, classification, genesis, and relationships to tectonism. Offered in the spring semester.
Prerequisite(s): GEO 210.

GEO 355. Invertebrate Paleontology. 3 sem. hrs.
Two lectures and one laboratory. Study of the taxonomy and morphology of major invertebrate fossil groups. Offered in the spring semester.
Prerequisite(s): GEO 101 and GEO 102.

GEO 363. Geomorphology. 3 sem. hrs.
Two lectures and one laboratory. Study of landforms with emphasis on the basic geomorphic processes that contribute to their origin. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 365. Structural Geology. 3 sem. hrs.
Two lectures and one laboratory. An introductory study of the deformation of rocks, including mechanical principles, description and identification of folds and faults, map interpretation, and regional tectonics. Offered in the fall semester.
Prerequisite(s): GEO 101 and PH 101.

GEO 367. Sedimentology/Stratigraphy. 4 sem. hrs.
Three lectures and one laboratory. Study of the principles involved in the description and classification of sedimentary rocks and stratigraphic units, with emphasis on sedimentary processes and depositional environments. Offered in the spring semester.
Prerequisite(s): GEO 102 and GEO 210.

GEO 369. Introduction Geophysics. 3 sem. hrs.
Introduction to the major fields of exploration geophysics such as seismology, isostasy, heat flow, gravity and magnetic prospecting, and electrical methods. The course includes both principles and applications to petroleum, mining, and environmental problems. Offered in the fall semester.
Prerequisite(s): MATH 125 and PH 101 and GEO 101.

GEO 399. Undergraduate Research. 1-6 sem. hr.
A maximum of 4 hours can be applied toward the major in geology. Approval of the department chairperson is required prior to registration. Offered according to demand.

GEO 401. Paleoclimatology. 3 sem. hrs.
Survey of the history of global climate change and the methods used to measure paleoclimate in the geological record. Offered in the Spring semester.
Prerequisite(s): GEO 101 or GEO 102.

GEO 404. Quatenary Climate and Envrmnt. 3 sem. hrs.
Outline of the climatological and environmental history of the past two million years, focusing on causes and impact of glacial and shorter oscillations. Offered according to demand.
Prerequisite(s): GEO 401.

GEO 407. Seismology. 3 sem. hrs.
This course provides an overview of earthquake seismology for both upper-level and graduate geo-science students. Topics include elastic wave propagation, seismic ray theory, travel time interpretations, surface wave dispersion, and seismic tomography.
Prerequisite(s): MATH 126.

GEO 410. Soil & Groundwater Restoration. 3 sem. hrs.
Methods for restoring contaminated soil groundwater by examining the factors and processes influencing the efficacy of remediation systems. Emphasis placed on the scientific principles upon which soil and groundwater remediation is based.
Prerequisite(s): GEO 101 and CH 101 or CH 117 and CH 102 or 118.

GEO 416. Volcanology. 3 sem. hrs.
Study of the physical properties of magmas, eruptive mechanisms, volcanic products, and the relationship between volcanism and tectonism. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 420. Petroleum Geology. 3 sem. hrs.
Introduction to the origin, migration, accumulation, and entrapment of petroleum. Emphasis is on sedimentary, geochemical, and hydrodynamic processes. Offered in the spring semester of even-numbered years.
Prerequisite(s): GEO 365 and GEO 367.

GEO 421. Geology & History of W Turkey. 3 sem. hrs.
This two week long course will emphasize environmental geology history, geoarchaeology, and natural hazards of the Greco-Roman city states in Western Anatolia. It will concentrate on the effects of geology and natural hazards in the decline and eventual fall of these large city states and cultural centers.

GEO 424. Topics In Geology. 1-4 sem. hr.
Special topics in the following areas: economic geology, geochemistry, geophysics, geomorphology, hydrogeology, mineralogy, paleontology, petrology, sedimentology, stratigraphy, structural geology, and tectonics. Offered according to demand.

GEO 430. Ore Deposits. 3 sem. hrs.
Introduction to sedimentary hydrothermal, metasomatic, and magnetic ore deposits, including geologic setting and genesis. Offered on demand.
Prerequisite(s): GEO 210.

GEO 435. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the fall semester.

GEO 436. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the spring semester.

GEO 445. Multich. Seismic Proc. 4 sem. hrs.
Introduction to multichannel seismic data acquisition, processing, and interpretation. Includes the theory of wave propagation, time series analysis, and filtering. Lab is problem-based using real-world data and examples. Offered according to demand.
Prerequisite(s): MATH 125 and PH 102.

GEO 446. Scientific Computing. 3 sem. hrs.
This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages. Offered according to demand.

GEO 470. General Geochemistry. 3 sem. hrs.
Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered in the Spring semester.
Prerequisite(s): GEO 314.

GEO 476. Analytical Geochemistry. 3 sem. hrs.
Theory, techniques, and applications of geochemical methods for the analysis of rocks, soils, and aqueous fluids. Offered according to demand.

GEO 490. Seminar Regional Geology. 1-3 sem. hr.
Seminar on and field trip to important geologic localities. May be repeated for credit. Offered according to demand.

GEO 492. Geologc Field Writg Tech. 2 sem. hrs.
Introduction to the methods of field geology, geology of the southeastern U.S., geological writing, and presentation techniques. Offered according to demand.
Prerequisite(s): GEO 367.

GEO 495. Field Geology. 6 sem. hrs.
Five-week field course involving the application of geologic techniques and principles. Includes geologic mapping, data collection, and report writing. Offered during the first summer term.
Prerequisite(s): GEO 314 and GEO 365 and GEO 367.

GEO 497. Geological Internships. 3 sem. hrs.
A maximum of 4 hours can be applied toward the major in Geology. Field and laboratory projects with government and industry. Offered according to demand.
Prerequisite(s): GEO 101 and GEO 102 or GEO 105.

GEO 499. Research In Geology. 1-4 sem. hr.
Offered according to demand.

Marine Science (MS) Courses

MS 304. Marine Geology. 4 sem. hrs.
Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

MS 306. Marine Biology. 4 sem. hrs.
Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

MS 321. Marine Tech Methods I. 2 sem. hrs.

MS 398. Undergraduate Research. 1-6 sem. hr.

MS 400. Coastal Birds of Alabama. 2 sem. hrs.
This course is an introductory level course to coastal avian fauna. Study of coastal birds with an emphasis on various nesting sites and nesting behavior. This course includes identification, population dynamics and behavior of coastal birds. Lectures emphasize functional ecology specifically nesting biology of numerous species found along Alabama's coastal region. Topics include migration, mechanics of flight, breeding biology, and foraging. This course is a field-based course with an emphasis on breeding biology and behavior and introduction to bird identification.
Prerequisite(s): BSC 114 or BSC 385.

MS 401. Coastal Geomorphology. 2 sem. hrs.
This course is an introduction to coastal sediment processes and applied coastal geomorphology. Waves and other coastal hydrodynamics, sediment transport, and interaction between natural process and man's activities such as dredging, jetties, and beachfills will be studied. The barrier island coast of Alabama will be used extensively in field trip investigations of these processes. This course is designed for undergraduate and graduate students in the physical and biological marine sciences.
Prerequisite(s): BSC 114 or GEO 101.

MS 408. Marine Invertebrate Zoology. 4 sem. hrs.
Comparative study of the major marine invertebrate phyla, protozoa through protochordates. The focus is on their morphology, physiology, ecology, and phylogenetic relationships.

MS 411. Marsh Ecology. 4 sem. hrs.
Study of the floral and faunal elements of various marine marsh communities. The interaction of physical and biological factors is emphasized. Field trips acquaint students with regional examples of marsh types.

MS 419. Marine Ecology. 4 sem. hrs.
Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems.

MS 433. Coastal Zone Management. 2 sem. hrs.
Review of ecological features, physical management policies for coastal communities, and a description of relevant federal and state programs.

MS 448. Intro Oceanography. 4 sem. hrs.
A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and their relation to biological systems.

MS 452. Marine Vertebrate Zoology. 4 sem. hrs.
Systematics, zoogeography, and ecology of marine vertebrates.

MS 453. Marine Botany. 4 sem. hrs.
Reproduction, taxonomy, systematics, distribution, and ecology of the major marine plant groups.

MS 497. Special Topics. 1-4 sem. hr.
A marine science topic not covered in other courses. The credit hours and format are determined as appropriate to the topic. Offered according to demand and instructor availability.

Department of Mathematics

The Department of Mathematics offers a major in mathematics that culminates in a bachelor of science (BS) degree. The department also offers minors in mathematics and mathematical statistics, as well as mathematics education in the College of Education.

Mathematics Major

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in mathematics must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in mathematics requires the successful completion of 36-37 semester hours, including the core mathematics courses, a specific track and ancillary courses.

Core Mathematics Courses

The following courses must be completed by all mathematics majors:

		Hours
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 237	Introduction to Linear Algebra	3
MATH 238	Appld Diff Equations I	3
MATH 301	Discrete Mathematics	3
Total Hours		21

Pure Mathematics Track

		Hours
Core mathematics courses		21
MATH 470	Prin Modern Algebra I	3
MATH 485	Intro Complex Calculus	3
MATH 486	Introduction to Real Analysis I	3

Select two of the following:		6
MATH 371	Advanced Linear Algebra	
MATH 465	Intro General Topology	
MATH 471	Prin Modern Algebra II	
MATH 487	Intro to Real Analysis II	
Total Hours		36

Applied Mathematics – Scientific Computation Track

		Hours
Core mathematics courses		21
MATH 300	Intro Numerical Analysis	3
MATH 343	Appl Diff Equations II	3
MATH 410	Numerical Linear Algebra	3
Select two of the following:		6
MATH 355	Theory Of Probability	
MATH 420	Linear Optimization Theory	
MATH 421	Non-Linear Optimization Theory	
MATH 432	Graph Theory & Applictns	
MATH 441	Boundary Value Problems	
MATH 485	Intro Complex Calculus	
MATH 486 or	Introduction to Real Analysis I	
MATH 499	Undergraduate Research Experience	
Total Hours		36

Applied Mathematics – Classical Track

		Hours
Core mathematics courses		21
MATH 300	Intro Numerical Analysis	3
Department approved MATH Course		3
MATH 343	Appl Diff Equations II	3
MATH 441	Boundary Value Problems	3
MATH 485	Intro Complex Calculus	3
Select one of the following:		3
MATH 410	Numerical Linear Algebra	
MATH 442	Integral Transf & Asympt	
MATH 486	Introduction to Real Analysis I	
Total Hours		39

Applied Mathematics – Optimization Track

		Hours
Core mathematics courses		21
MATH 300	Intro Numerical Analysis	3
MATH 355	Theory Of Probability	3
MATH 410	Numerical Linear Algebra	3
Select two of the following:		6
MATH 419	Introduction to Optimization	
MATH 420	Linear Optimization Theory	
MATH 421	Non-Linear Optimization Theory	
Total Hours		36

Mathematical Statistics Track

		Hours
Core mathematics courses		21
MATH 300	Intro Numerical Analysis	3
MATH 355	Theory Of Probability	3
MATH 451	Math Stats W/Applictn I	3
MATH 452	Math Stats W/Applictn II	3
Select one of the following:		3
MATH 422	Mathematics For Finance I	
MATH 457	Stochastic Processes I	
MATH 486	Introduction to Real Analysis I	
ST 450	Stat Methods In Res I	
ST 451	Stat Methods In Res II	
Total Hours		36

Mathematics Education Track*

		Hours
Core mathematics courses		21
MATH 355	Theory Of Probability	3
MATH 403	Adv Math Connections & Devlpmn	3
MATH 404	Topics Math Secondary Teachers	1
MATH 405	Geometry For Teachers	3
MATH 470	Prin Modern Algebra I	3
MATH 486	Introduction to Real Analysis I	3
Total Hours		37

*This track should only be followed by students planning to enter the teaching profession.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in mathematics for all tracks requires the successful completion of the following courses outside the major:

CS 150	Programming I	2
CS 250 or	Programming II	2-3
ST 260	Statistical Data Analysis	

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Required Minor

The mathematics major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

Mathematics majors can complete a second major in computer science, electrical engineering, economics or finance, among others. On campus employment as a math tutor in the Mathematics Technology Learning Center is available to qualified undergraduate mathematics majors. Research experiences are possible for advanced undergraduate students. The University of Alabama also has a chapter of Pi Mu Epsilon, a national mathematics honor society. The Department of Mathematics participates in the University Scholars Program that allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to the junior or senior year. For more information about the University Scholars Program, visit graduate.ua.edu or consult the University of Alabama Graduate Catalog.

Mathematics Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in mathematical statistics requires the successful completion of the following 21 semester hours:

		Hours
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4

MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 237 or	Introduction to Linear Algebra	3
MATH 238	Appld Diff Equations I	
MATH electives 300 level and above		6
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Mathematical Statistics Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in mathematics requires the successful completion of the following 21 semester hours:

		Hours
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 237	Introduction to Linear Algebra	3
MATH 355	Theory Of Probability	3
MATH 451	Math Stats W/Applictn I	3
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Mathematics Education Minor

College of Education and Department of Mathematics

math.ua.edu
mathematics@as.ua.edu
education.ua.edu

A minor in mathematics education is available to students pursuing the mathematics major (mathematics education track). The mathematics education major does not lead to a teaching certification. Successful completion of the minor provides foundation coursework for admission to the alternative certification program in the College of Education that leads to master's level teaching certification in secondary education.

Enrollment in the mathematics education minor is limited and requires students to take courses in a specified sequence. In addition, students must complete requirements for the Teacher Education Program (TEP) during the second semester of the junior year. These requirements include a cumulative GPA of 2.75, at least a 2.5 GPA in the teaching field, and a passing score on the Basic Skills Assessments of the Alabama Educator Certification Testing Program (AECTP). Information about the Basic Skills Assessments can be found online at actapps.act.org/wkala/wkala.

Admission into the Minor

To be eligible for the mathematics education minor, a student must major in mathematics (mathematics education track). Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in mathematics education requires the successful completion of the following 20 semester hours:

		Hours
EDU 200	Orient to Teacher Education	1
SPE 300	Survey Spe Accomd Stratg	3
BEP 305	Educational Psychology	3
BEF 362	School, Culture, and Society	3
CSE 390	Instructn Accomd Sec Sch	3
CSE 401	Tech for Teaching Sec. Math	3
CSE 406	Curriculm Secondary Math *	3
CSE 493	Diversity Block Seminar	1
Total Hours		20

* CSE 406 Curriculm Secondary Math requires admission to the Teacher Education Program (TEP).

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Chair and Professor

Wu, Zhijian

Professors

Allen, Paul J.

Corson, Jon M.

Dixon, Martyn R.

Evans, Martin

Hadji, Layachi

Halpern, David C. M. J.

Hsia, Wei Shen

Liem, Vo Thanh

Mai, Tsun-zee

Moore, Robert L.

Neggers, Joseph

Olin, Robert F.

Sun, Min

Trent, Tavan T.

Wang, James L.

Wang, Pu P.

Associate Professors

Belbas, Starvos

Gleason, Jim

Lee, Tan-Yu

Sidje, Roder

Trace, Bruce S.

Zhao, Shan

Assistant Professors

Geng, Weihua

Knese, Greg

Kwon, Hyun

Lewis, Andrew

Moen, Kabe

Roberts, Lawrence

Zhu, Wei

Courses

MATH 005. Introductory Algebra. 3 sem. hrs.
Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

MATH 100. Intermediate Algebra. 3 sem. hrs.
Intermediate-level course including work on functions, graphs, linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. The solution of word problems is stressed. NOT APPLICABLE to UA Core Curriculum mathematics requirement. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 190 or higher or ACT2 18 or SAT2 440 or MATH 005.

MATH 110. Finite Mathematics. 3 sem. hrs.
Sets and counting, permutations and combinations, basic probability, conditional probability, matrices and their application to Markov chains, and a brief introduction to statistics. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 250 or higher or ACT2 18 or SAT2 440 or MATH 100.

MATH 112. Precalculus Algebra. 3 sem. hrs.
A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions. Graphs of these functions are stressed. The course also includes work on equations, inequalities, systems of equations, the binomial theorem, and the complex and rational roots of polynomials. Applications are stressed. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 310 or higher or ACT2 24 or SAT2 560 or MATH 100.

MATH 113. Precalculus Trigonometry. 3 sem. hrs.
Continuation of MATH 112. The course includes study of trigonometric functions, inverse trigonometric functions, trigonometric identities and trigonometric equations. Complex numbers, De Moivre's Theorem, polar coordinates, vectors and other topics in algebra are also addressed, including conic sections, sequences and series. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): MATH 112.

MATH 115. Precalc Algebra & Trig. 3 sem. hrs.
Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates. Grades are reported as A, B, C, or NC (No credit).
Prerequisite(s): PLMA 380 or higher or ACT2 29 or SAT2 650.

MATH 121. Calculus & Applications. 3 sem. hrs.
A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration.

MATH 125. Calculus I. 4 sem. hrs.
This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus. There is also a brief review of selected precalculus topics at the beginning of the course. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): MATH 113 and MATH 112; or MATH 115.

MATH 126. Calculus II. 4 sem. hrs.
This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L'Hopital's Rule, improper integrals, parametric equations, polar coordinates, conic sections and infinite series.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

MATH 145. Honors Calculus I. 4 sem. hrs.
Honors sections of MATH 125.

MATH 146. Honors Calculus II. 4 sem. hrs.
Honors sections of MATH 126.
Prerequisite(s): MATH 125 or MATH 145.

MATH 208. Number And Operations. 3 sem. hrs.
Arithmetic of whole numbers and integers, fractions, proportion and ratio, and place value. Class activities initiate investigations underlying mathematical structure in arithmetic processes and include hands-on manipulatives for modeling solutions. Emphasis is on the explanation of the mathematical thought process. Students are required to verbalize explanations and thought processes and to write reflections on assigned readings on the teaching and learning of mathematics.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112.

MATH 209. Geometry & Measurement. 3 sem. hrs.
Properties of two- and three-dimensional shapes, rigid motion transformations, similarity, spatial reasoning, and the process and techniques of measurement. Class activities initiate investigations of underlying mathematical structure in the exploration of shape and space. Emphasis is on the explanation of the mathematical thought process. Technology specifically designed to facilitate geometric explorations is integrated throughout the course.
Prerequisite(s): MATH 208.

MATH 210. Data Analysis Probabil Stats. 3 sem. hrs.
Data analysis, statistics, and probability, including collecting, displaying/representing, exploring, and interpreting data, probability models, and applications. Focus is on statistics for problem solving and decision making, rather than calculation. Class activities deepen the understanding of fundamental issues in learning to work with data Technology specifically designed for data-driven investigations and statistical analysis is integrated throughout the course.
Prerequisite(s): MATH 208 or MATH 209.

MATH 227. Calculus III. 4 sem. hrs.
This is the third of three courses in the basic calculus sequence. Topics include: vector functions and motion in space; functions of two or more variables and their partial derivatives; and applications of partial derivatives (including Lagrange multipliers), quadric surfaces, multiple integration (including Jacobian), line integrals, Green's Theorem, vector analysis, surface integrals and Stokes' Theorem.
Prerequisite(s): MATH 146 or MATH 126 or MATH 132.

MATH 237. Introduction to Linear Algebra. 3 sem. hrs.
Fundamentals of matrices and vectors in Euclidean space. Topics include solving linear systems of equations, matrix algebra, inverses, determinants, eigenvalues and vectors. Also covers the basic notions of vector space, subspace,linear independence, basis, dimension, linear transformation, range, and null-space. Use of mathematics software is an integral part of the course.
Prerequisite(s): MATH 126 or MATH 146.

MATH 238. Appld Diff Equations I. 3 sem. hrs.
Introduction to analytic and numerical methods for solving differential equations. Topics include numerical methods and qualitative behavior of first order equations, analytic techniques for separable and linear equations, applications to population models and motion problems; techniques for solving higher order linear differential equations with constant coefficients (including undetermined coefficients, reduction of order, and variation of parameters), applications to physical models; the Laplace transform (including intial value problems with discontinuous forcing functions). Use of mathematics software is an integral part of the course.
Prerequisite(s): MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 227 or MATH 247.

MATH 247. Honors Calculus III. 4 sem. hrs.
Honors sections of MATH 227.
Prerequisite(s): MATH 126 or MATH 132 or MATH 146.

MATH 300. Intro Numerical Analysis. 3 sem. hrs.
Credit will not be granted for both MATH 300 and MATH 411. A beginning course in numerical analysis. Topics include number representation in various bases, error analysis, location of roots of equations, numerical integration, interpolation and numerical differentiation, systems of linear equations, approximations by spline functions, and approximation methods for first-order ordinary differential equations and for systems of such equations.
Prerequisite(s): MATH 227 or MATH 247, and CS 150 or ECE 285 or CBH 101.

MATH 301. Discrete Mathematics. 3 sem. hrs.
An introductory course that primarily covers logic, recursion, induction, modeling, algorithmic thinking, counting techniques, combinatorics, and graph theory.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

MATH 302. Topics in Discrete Mathematics. 1 sem. hr.
A supplemental course in discrete mathematics covering select topics of interest in computer science. Topics include graphs and trees, finite state automata and regular expressions, efficiency of algorithms.
Prerequisite(s): MATH 301.

MATH 307. Intro Theory Numbers. 3 sem. hrs.
Divisibility theory in the integers; the theory of congruencies; Diophantine equations; Fermat's theorem and generalizations; and other topics. Usually offered in the spring semester.
Prerequisite(s): MATH 227 or MATH 247.

MATH 343. Appl Diff Equations II. 3 sem. hrs.
Continuation of MATH 238. Topics include series solutions of differential equations, the method of Frobenius, Fourier series, method of separation of variables for partial differential equations, elementary boundary value problems for the Laplace, heat and wave equations, an introduction to Sturm-Liouville boundary value problems, and stability of autonomous systems. Usually offered in the spring semester.
Prerequisite(s): MATH 238.

MATH 355. Theory Of Probability. 3 sem. hrs.
The foundations of the theory of probability, laws governing random phenomena and their practical applications in other fields. Topics include: probability spaces; properties of probability set functions; conditional probability; and an introduction to combinatorics, discrete random variables, expectation of discrete random variables, Chebyshev's Inequality, continuous variables and their distribution functions, and special densities.
Prerequisite(s): MATH 227 or MATH 247.

MATH 371. Advanced Linear Algebra. 3 sem. hrs.
Topics include inner product spaces, norms, self adjoint and normal operators, orthogonal and unitary operators, orthogonal projections and the spectral theorem, bilinear and quadratic forms, generalized eigenvectors, and Jordan canonical form.
Prerequisite(s): MATH 237 or MATH 257.

MATH 382. Advanced Calculus. 3 sem. hrs.
Further study of calculus with emphasis on theory. Topics include limits and continuity of functions of several variables; partial derivatives; transformations and mappings; vector functions and fields; vector differential operators; the derivative of a function of several variables as a linear transformation; Jacobians; change of variables in multiple integrals; line and surface integrals; and Green's, Stokes', and Divergence Theorems.
Prerequisite(s): MATH 227; and MATH 247 or MATH 257; and MATH 257.

MATH 402. History Of Mathematics. 3 sem. hrs.
Survey of the development of some of the central ideas of modern mathematics, with emphasis on the cultural context. Writing proficiency within this discipline is required for a passing grade in this course.

MATH 403. Adv Math Connections & Devlpmn. 3 sem. hrs.
Explore the interconnections between the algebraic, analytic, and geometric areas of mathematics with a focus on properties of various number systems, importance of functions, and the relationship of algebraic structures to solving analytic equations. This exploration will also include the development and sequential nature of each of these branches of mathematics and how it relates to the various levels within the algebra mathematics curriculum.
Prerequisite(s): MATH 237 and MATH 301
Prerequisite(s) with concurrency: MATH 470 or MATH 486.

MATH 404. Topics Math Secondary Teachers. 1 sem. hr.
This is a seminar style course focusing on various mathematical topics related to the high school curriculum. Topics will vary depending upon instructor.
Prerequisite(s): MATH 301.

MATH 405. Geometry For Teachers. 3 sem. hrs.
This course will give an overview of geometry from a modern point of view. Both axiomatic and analytic approaches to geometry will be used. The construction of geometric proofs will play an important role.
Prerequisite(s): MATH 125.

MATH 410. Numerical Linear Algebra. 3 sem. hrs.
Further study of matrix theory, emphasizing computational aspects. Topics include direct solution of linear systems, analysis of errors in numerical methods for solving linear systems, least-squares problems, orthogonal and unitary transformations, eigenvalues and eigenvectors, and singular value decomposition.
Prerequisite(s): MATH 237 or MATH 257.

MATH 411. Numerical Analysis I. 3 sem. hrs.
Credit will not be granted for both MATH 411 and MATH 300. A rigorous introduction to numerical methods, formal definition of algorithms, and error analysis and their implementation on a digital computer. Topics include interpolation, roots, linear equations, integration and differential equations, and orthogonal function approximation.
Prerequisite(s): MATH 237 or MATH 257; and MATH 238; and CS 150 or GES 126.

MATH 419. Introduction to Optimization. 3 sem. hrs.
A one-semester introduction to both linear and nonlinear programming for undergraduate students and non-math graduate students. Emphasis is on basic concepts and algorithms and the mathematical ideas behind them. Major topics in linear programming include the simplex method, duality, sensitivity, and network problems; major topics in nonlinear programming include optimality conditions, several search algorithms for unconstrained problems, and a brief discussion of constrained problems. In-depth theoretical development and analysis are not included.
Prerequisite(s): MATH 237 or MATH 257.

MATH 420. Linear Optimization Theory. 3 sem. hrs.
In-depth theoretical development and analysis of linear programming. Topics include formulation of linear programs, various simplex methods, duality, sensitivity analysis, transportation and networks and various geometric concepts.
Prerequisite(s): MATH 237 or MATH 257.

MATH 421. Non-Linear Optimization Theory. 3 sem. hrs.
In-depth theoretical development and analysis of non linear programming with emphasis on traditional constrained and unconstrained non linear programming methods and an introduction to modern search algorithms.
Prerequisite(s): MATH 237 or MATH 257.

MATH 422. Mathematics For Finance I. 3 sem. hrs.
Topics include the basic no-arbitrage principle, binomial model, time value of money, money market, risky assets such as stocks, portfolio management, forward and future contracts, and interest rates.
Prerequisite(s): MATH 227 or MATH 247 and MATH 355.

MATH 432. Graph Theory & Applictns. 3 sem. hrs.
Survey of several of the main ideas of general theory with applications to network theory. Topics include oriented and nonoriented linear graphs, spanning trees, branching and connectivity, accessibility, planar graphs, networks and flows, matching, and applications.
Prerequisite(s): MATH 237 or MATH 257.

MATH 441. Boundary Value Problems. 3 sem. hrs.
Methods of solving the classical second-order linear partical differential equations: Laplace's equation, the heat equation, and the wave equation, together with appropriate boundary or initial conditions. Usually offered in the fall semester.
Prerequisite: Math 343, or consent of the department.
Prerequisite(s): MATH 343.

MATH 442. Integral Transf & Asympt. 3 sem. hrs.
Complex variable methods, integral transforms, asymptotic expansions, WKB method, Airy's equation, matched asymptotics, and boundary layers.
Prerequisite(s): MATH 441.

MATH 451. Math Stats W/Applictn I. 3 sem. hrs.
Introduction to mathematical statistics. Topics include bivariate and multivariate probability distributions, functions of random variables, sampling distributions and the central limit theorem, concepts and properties of point estimators, various methods of point estimation, interval estimation, tests of hypotheses and Neyman-Pearson lemma with some applications.
Prerequisite(s): MATH 237 and MATH 355.

MATH 452. Math Stats W/Applictn II. 3 sem. hrs.
Further applications of the Neyman-Pearson Lemma, Likelihood Ratio tests, Chi-square test for goodness of fit, estimation and test of hypotheses for linear statistical models, analysis of variance, analysis of enumerative data, and some topics in nonparametric statistics.
Prerequisite(s): MATH 451.

MATH 457. Stochastic Processes I. 3 sem. hrs.
Introduction to the fundamental concepts and applications of stochastic processes: Markov chains, continuous-time Markov chains, Poisson and renewal processes, and Brownian motion. Applications include queueing theory, communication networks, and finance.

MATH 460. Intro Differential Geom. 3 sem. hrs.
Introduction to basic classical notions in differential geometry: curvature, torsion, geodesic curves, geodesic parallelism, differential manifold, tangent space, vector field, Lie derivative, Lie algebra, Lie group, exponential map, and representation of a Lie group. Usually offered in the spring semester.

MATH 465. Intro General Topology. 3 sem. hrs.
Basic notions in topology that can be used in other disciplines in mathematics. Topics include topological spaces, open sets, basis for a topology, continuous functions, seperation axioms, compactness, connectedness, product spaces, quotient spaces.
Prerequisite(s): MATH 486.

MATH 466. Intro Algebraic Topology. 3 sem. hrs.
Homotopy, fundamental groups, covering spaces, covering maps, and basic homology theory, including the Eilenberg Steenrod axioms.

MATH 470. Prin Modern Algebra I. 3 sem. hrs.
A first course in abstract algebra. Topics include groups, permutation groups, Cayley's theorem, finite abelian groups, isomorphism theorems, rings, polynomial rings, ideals, integral domains, and unique factorization domains.
Prerequisite(s): MATH 237 or MATH 257.

MATH 471. Prin Modern Algebra II. 3 sem. hrs.
Introduction to the basic principles of Galois Theory. Topics include rings, polynomial rings, fields, algebraic extensions, normal extensions, and the fundamental theorem of Galois Theory.

MATH 474. Cryptography. 3 sem. hrs.
Introduction to rapidly growing area of cryptography, an application of algebra, especially number theory. Usually offered in the Fall semester.
Prerequisite(s): MATH 307 and MATH 470.

MATH 485. Intro Complex Calculus. 3 sem. hrs.
Some basic notions in complex analysis. Topics include analytic functions, complex integration, infinite series, contour integration, and conformal mappings.

MATH 486. Introduction to Real Analysis I. 3 sem. hrs.
Rigorous development of the calculus of real variables. Topics include topology of the real line, sequences, limits, continuity, and differentiation.
Prerequisite(s): MATH 237 or MATH 257.

MATH 487. Intro to Real Analysis II. 3 sem. hrs.
Riemann integration, introduction to Reimann-Stieltjes integration, series of constants and convergence tests, sequences and series of functions, uniform convergence, power series, Taylor series, and the Weierstrass Approximation Theorem.
Prerequisite(s): MATH 486.

MATH 495. Seminar Directed Reading. 1-3 sem. hr.
Offered as needed.

MATH 499. Undergraduate Research Experience. 1-3 sem. hr.
Independent or collaborative research experience in mathematics.

MATH 5. Introductory Algebra. 3 sem. hrs.
Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

Department of Modern Languages and Classics

The Department of Modern Languages and Classics offers two majors leading to the bachelor of arts (BA) degree: one in Spanish and one in foreign languages and literature. The major in foreign languages and literature offers five tracks: Classical Civilization, French, German, Latin and Greek. Also offered are minors in Chinese, French, German, Greek, Italian, Japanese, Latin, Russian and Spanish. The Department of Modern Languages and Classics also houses the Critical Languages Center. Students pursuing majors or minors in a language are strongly encouraged to take advantage of study abroad opportunities.

Foreign Languages and Literature Major

200 B.B. Comer Hall

Degree and Track Requirements

Students earning the bachelor of arts (BA) degree with a major in foreign languages and literature must complete all University, college and major requirements. These include the general education requirement, all major and track requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

See course descriptions for information concerning appropriate placement in French, German and Latin. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in foreign languages and literature requires the successful completion of specifically required semester hours in one of the following five tracks:

Classic Civilization Track		Hours
One of the following:		6
LA 201 & LA 202	Intermed Latin Read I and Intermed Latin Read II *	
GR 201 & GR 202	Intermediate Greek I and Intermediate Greek II *	
Select three of the following:		9
CL 222	Greek Roman Mythology	
CL 350	Roman Religion	
CL 384	Ancient Egypt Near East	
CL 385	History Of Greece	
CL 386	History Of Rome	
Select five of the following:		15
ARH 351	Ancient Art	
CL 380	Special Topics	
HY 235	Christ Church To 1500	
HY 236	Christ Church Sc 1500	
HY 384	Ancient Egypt Near East	
PHL 211	Ancient Philosophy	3
UH 210	Honors Fine Arts ("Alexander the Great")	
CL, LA, or GR Electives *		3
Total Hours		36

*Students who choose LA 201 and LA 202 may not use LA 101 or LA 102 as an elective in the track. Students who choose GR 201 and GR 202 may not use GR 101 or GR 102 as an elective in the track.

French Track		Hours
FR 201	Intermediate French *	3
FR 202	Intermediate French *	3
FR 321	Voices In French	3
FR 323	Text, Image, And Word	3
FR 341	Survey Fr Literature I **	3
FR 351	Survey Fr Literature II **	3
FR 421	Pronunciation & Phonetics	3
Select two of the following:		6
FR 331	French Civilization	
FR 361	Intro Romance Linguistic (Same as IT 361 and SP 361)	
FR 431	Contemp French Civiliztn	
FR 461	French Linguistics **	
FR electives 200 level and above		6
Total Hours		33

*One honors section is available for this course. Consult the online schedule of classes or contact the Department of Modern Languages and Classics.

**With approval, three hours of topic appropriate FR 470 Undergrad Sem In French or FR 480 Special Topics may substitute for no more than one course in this category.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The track in French requires the successful completion of the following courses:

One of the following:		4-8
FR 101 & FR 102	Elementary French I and Elementary French II *	
FR 103	French 1st Year Review *	

*Or proficiency or placement.

German Track

		Hours
One of the following:		8
GN 101 & GN 102	Elementary German I and Elementary German II	
GN 103	Accelerated Elementary German [1]	
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN 361 or	Interm Convers Comp I	3
GN 362	Interm Convers Comp II	
GN 371	German Culture and Civilization Thru 1832	3
GN 372	Germn Cult Civ 1832-Present	3
GN 403 or	Undergraduate Seminar	3
GN 404	Undergraduate Seminar	
GN electives [2]		3
GN literature [3]		3
Total Hours		32

[1]Students taking GN 103 Accelerated Elementary German are required to take additional GN coursework to satisfy the 32 hour requirement for the German major.

[2]A total of four hours in GN 205 Living German House I and GN 206 Living German House II may be applied to the 32 required hours in the major.

[3]Students must take three hours of German literature chosen from the following:

GN 250	Germanic Mythology
GN 260	Holocaust In Film & Lit
GN 264	German Literature Translatn I
GN 265	German Lit In Translatn II
GN 403	Undergraduate Seminar
GN 404	Undergraduate Seminar
Or other German literature course with departmental approval	

Greek Track

		Hours
GR 201	Intermediate Greek I	3
GR 202	Intermediate Greek II	3
GR 301	Advanced Greek I	3
GR 302	Advanced Greek II	3
GR 490	Adv Greek Literature	3
Select one of the following:		3
CL 380	Special Topics	
CL 385	History Of Greece	
Select four of the following:		12
ARH 351	Ancient Art	
CL 222	Greek Roman Mythology	
CL 350	Roman Religion	
CL 384	Ancient Egypt Near East	
CL 386	History Of Rome	
HY 235	Christ Church To 1500	
PHL 211	Ancient Philosophy	3
UH 210	Honors Fine Arts (Alexander the Great)	
GR, LA, or CL electives 200 level or above		3
Total Hours		36

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The track in Greek requires the successful completion of the following courses:

GR 101 & GR 102	Beginning Greek I and Beginning Greek II *	6

*Or proficiency or placement.

Latin Track

		Hours
LA 201	Intermed Latin Read I	3
LA 202	Intermed Latin Read II	3
LA 301	Advanced Reading in a Roman Author or Genre	3
LA 302	Advanced Reading in a Roman Author or Genre	3
LA 490	Readings In Latin Literature	3
Select one of the following:		3
CL 380	Special Topics	
CL 386	History Of Rome	
Select four of the following:		12
ARH 351	Ancient Art	
CL 222	Greek Roman Mythology	
CL 350	Roman Religion	
CL 384	Ancient Egypt Near East	
CL 385	History Of Greece	
HY 235	Christ Church To 1500	
PHL 211	Ancient Philosophy	3
UH 210	Honors Fine Arts (Alexander the Great)	
LA or GR electives 200 level and above		3
Total Hours		36

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The track in Latin requires the successful completion of the following courses:

LA 101 & LA 102	Elementary Latin I and Elementary Latin II *	6

*Or proficiency or placement.

Upper-level Residency

For all tracks, a minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

If students test out of any of the courses required for the major, this does not reduce the total number of credit hours required for the major. Students must meet with an adviser in the major department for academic planning and to be cleared for registration each semester.

Prerequisites

In addition to the stated prerequisites, all 400-level German courses have as a prerequisite 20 hours of coursework in German, or permission of the instructor.

Special Opportunities

The classics program offers numerous opportunities for students to learn about the ancient world. Students may participate in the Classics Academy Club, become initiated into Eta Sigma Phi, work as peer mentors for CL 222 Greek Roman Mythology and earn credit during the summer study abroad program in Greece. In addition, the German program offers numerous opportunities for students to learn about the German-speaking world. Students may participate in the German Club, be eligible for the Delta Phi Alpha honor society, live in the German House, and earn credit studying abroad for a summer, semester or year.

Credit Options

With the exception of heritage language or bilingual individuals, students placed in intermediate level courses or higher can earn placement credit.

French

Except for heritage language or bilingual individuals, students placed in FR 201 Intermediate French or higher and who earn a grade of C- or higher in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
FR 101	**No prior instruction in French, fewer than two high-school units in French, instruction more than four years ago, or UA placement test.**
FR 102	**UA credit for FR 101 or UA placement test**
FR 103	**Two high-school units of French or FR 101 at another institution.**
FR 201	**Credit for FR 102 or FR 103 or UA Placement test.**
FR 202	**Credit for FR 201 or UA placement test**
FR 300	**FR 202 or UA placement test**

German

Except for heritage language or bilingual individuals, students placed in GN 201 Intermediate German I or higher and who earn a grade of C- or higher in the course can earn additional credit upon written petition:

Placement	Credit received with grade of "Pass"
GN 201	**GN 103 (4 hours)**
GN 202	**GN 103 and GN 201 (7 hours)**
GN 300 or 400 level	**GN 103, GN 201, GN 202 (10 hours)**

Latin

The course level at which students begin their study of Latin is determined by several factors. These factors include the following: the number of high-school units completed, language placement examination scores or faculty evaluation. Students placed in LA 201 Intermed Latin Read I or higher and who earn a grade of B or higher in the course are granted additional credit upon written petition.

Placement	Credit received with grade of "Pass"
LA 101	**No prior instruction in Latin, fewer than two high-school units in Latin, instruction more than four years ago, or UA placement test.**
LA 102	**UA credit for LA 101 or UA placement test**
LA 201	**LA 102 (3 hours)**
LA 202	**LA 102 and LA 201 (6 hours)**
LA 300 or 400 level	**LA 102, LA 201, LA 202 (9 hours)**

Spanish Major

200 B.B. Comer Hall
spanishadvising@bama.ua.edu

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in Spanish must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours

Admission into the Major

Course placement information appears in the Spanish course description section of the catalog. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama. Additionally, students must declare a major with the undergraduate adviser in the department.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in Spanish requires the successful completion of the following 27 semester hours:

		Hours
SP 353	Spanish Conversation	3
SP 356	Adv Grammar And Compos	3
SP 364 or	Spanish Civilization	3
SP 366	Spanish-American Civ	
Select two of the following:		6
SP 371	Survey Of Spanish Lit	
SP 372	Survey Of Spanish Lit	
SP 375	Masterpc Sp-Amer Lit I	
SP 376	Masterpc Sp-Amer Lit II	
SP 390 Special Topics (US Latino)		
SP electives 300 or 400 level *		6
SP 491	Cervantes	3
SP elective 400 level		3
Total Hours		27

* SP 361 Intro Romance Linguistic is taught in English and does not count towards Spanish major or minor.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus. Courses taken in the UA summer program in Spain may be used to satisfy the residency requirement.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in Spanish requires the successful completion of the following courses:

One of the following:		4-8
SP 101 & SP 102	Introductory Spanish I and Introductory Spanish II	
SP 103	Intensive Review Intro Spanish	
SP 201	Intermediate Spanish *	3
SP 202	Intermediate Spanish	3

* Or proficiency or placement.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Native and Heritage speakers. These students are exempted from SP 353 and must complete an additional course at the 300 level, chosen in consultation with the adviser in the Department in order to complete the 27 semester hours.

Special Opportunities

The Spanish program at The University of Alabama offers a quality education and a range of learning opportunities. These include the Alabama in Spain Summer Abroad Program, the Spanish Outreach Program in the Tuscaloosa/Northport area and UA's semester abroad program in Cuba (offered by Arts and Sciences). The Department of Modern Languages and Classics also offers honors courses in Spanish.

Credit Option

Except for native, heritage language or bilingual individuals, students placed in SP 201 Intermediate Spanish or higher and who earn a minimum grade of C- in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
SP 201	**SP 103 (4 hours)**

SP 202	**SP 103 and SP 201 (7 hours)**
SP 300 or 400 level	**SP 103, SP 201, SP 202 (10 hours)**

Spanish Minor

200 B.B. Comer Hall
spanishadvising@bama.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama. Students are strongly advised to meet with the department adviser each semester to plan their course of study.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Spanish requires the successful completion of the following 15 semester hours:

		Hours
SP 353	Spanish Conversation	3
SP 356	Adv Grammar And Compos	3
SP 364 or	Spanish Civilization	3
SP 366	Spanish-American Civ	
SP electives 300 or 400 level *		6
Total Hours		15

* SP 361 Intro Romance Linguistic is taught in English and does not count toward the Spanish major or minor.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus. Courses taken in the UA summer program in Spain may be used to satisfy the residency requirement.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The minor in Spanish requires the successful completion of the following courses:

One of the following:		4-8
SP 101 & SP 102	Introductory Spanish I and Introductory Spanish II	
SP 103	Intensive Review Intro Spanish	
SP 201	Intermediate Spanish *	3
SP 202	Intermediate Spanish	3

* Or proficiency or placement.
Native and Heritage speakers. These students are exempted from SP353 and must complete an additional course at the 300 level, chosen in consultation with the adviser in the department in order to complete the 15 semester hours.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Credit Option

Except for heritage language or bilingual individuals, students placed in or higher and who earn a minimum grade of C- in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
SP 201	**SP 103 (4 hours)**
SP 202	**SP 103 and SP 201 (7 hours)**
SP 300 or 400 level	**SP 103, SP 201, SP 202 (10 hours)**

Chinese Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Chinese requires the successful completion of the following 20 semester hours:

		Hours
CHI 101	Elementary Chinese	4
CHI 102	Elementary Chinese	4
CHI 201	Intermediate Chinese	3
CHI 202	Intermediate Chinese	3
One of the following:		6
CHI 301 & CHI 302	Intermediate Chinese and Intermediate Chinese	
CHI 401 & CHI 402	Classical Chinese Language and Literary Chinese Language	
Total Hours		20

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

French Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in French requires the successful completion of the following 18 semester hours:

		Hours
FR 201	Intermediate French *	3
FR 202	Intermediate French *	3
FR 321 or	Voices In French	3
FR 323	Text, Image, And Word	
FR 421	Pronunciation & Phonetics	3
FR electives 300 or 400 level		6
Total Hours		18

* One honors section is available for this course. Consult the online schedule of classes or contact the Department of Modern Languages and Classics.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The French minor requires the successful completion of the following courses:

One of the following:		4-8
FR 101 & FR 102	Elementary French I and Elementary French II	
FR 103	French 1st Year Review	

* Or proficiency or placement.

Additional Minor Requirements

If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

German Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in German requires the successful completion of the following 22 semester hours:

		Hours
One of the following:		8
GN 101 & GN 102	Elementary German I and Elementary German II	
GN 103	Accelerated Elementary German *	
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN electives 300 or 400 level		6
GN electives **		2
Total Hours		22

* Students taking GN 103 are required to take additional GN elective coursework to satisfy the 22 hour requirement for the German minor.

** A total of 4 hours in Living German House I (GN 205) and Living German House II (GN 206) may be applied to the 22 required hours in the minor.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Greek Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Greek requires the successful completion of the following 21 semester hours:

		Hours
GR 201	Intermediate Greek I	3
GR 202	Intermediate Greek II	3
GR 301	Advanced Greek I	3
GR 302	Advanced Greek II	3
GR, LA, CL electives 200 level or above		9
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The Greek minor requires the successful completion of the following courses:

GR 101 & GR 102	Beginning Greek I and Beginning Greek II *	6

* Or proficiency or placement.

Additional Minor Requirements

If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Italian Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Italian requires the successful completion of the following 20 semester hours:

		Hours
IT 101	Introductory Italian I	4
IT 102	Introductory Italian II	4
IT 201	Intermediate Italian I	3
IT 202	Intermediate Italian	3
IT electives 300 or 400 level		6
Total Hours		20

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus or in UA-sponsored programs of study abroad.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Japanese Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Japanese requires the successful completion of the following 21 semester hours:

		Hours
JA 201	Intermediate Japanese I	3
JA 202	Intermediate Japanese II	3
JA 301	Third Year Japanese I	3
JA 302	Third Year Japanese II	3
JA 410	4 Yr Read/Write Japanese	3
JA 411	4th Year Spoken Japanese	3
Select one of the following:		3
JA 356	Traditional Japanese Lit Trans	
JA 357	Japanese Literature & Film	
JA 390	Topics Japanese Studies	
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The minor in Japanese requires the successful completion of the following courses:

JA 101 & JA 102	Elementary Japanese I and Elementary Japanese II	8

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Latin Minor

200 B.B. Comer Hall

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Latin requires the successful completion of the following 21 semester hours:

		Hours
LA 201	Intermed Latin Read I	3
LA 202	Intermed Latin Read II	3
LA 301	Advanced Reading in a Roman Author or Genre	3
LA 302	Advanced Reading in a Roman Author or Genre	3
LA, GR, CL electives 200 level or above		9
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The Latin minor requires the successful completion of the following courses:

LA 101 & LA 102	Elementary Latin I and Elementary Latin II	6

Additional Minor Requirements

If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Russian Minor

200 B.B. Comer Hall
russian@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Russian requires the successful completion of the following 20 semester hours:

		Hours
RUS 101	Elementary Russian I	4
RUS 102	Elementary Russian II	4
RUS 201	Intermediate Russian I	3
RUS 202	Intermediate Russian II	3
RUS electives 300 or 400 level		6
Total Hours		20

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus or in UA-sponsored programs of study abroad.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Comparative World Literature Minor

Admission into the Minor

The minor in comparative world literature is only open to students who have completed two years of college-level coursework in a foreign language. Students

are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in comparative world literature requires the successful completion of the following 18 semester hours:

	Hours
Any foreign language 201 and 202	6
Literature electives 300 or 400 level *	6
Literature electives *	6
Total Hours	18

* A minimum of 6 hours of literature courses must be associated with the foreign language taken, either in the original text or in translation.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The minor in comparative world literature requires the successful completion of the following outside the minor: two semesters of elementary instruction in one foreign language. **NOTE:** Computer science does not fulfill this requirement.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Critical Languages Program

Through the Critical Languages Program, the College of Arts and Sciences offers a variety of non-traditional languages not available at other institutions. Students can take introductory-level courses for personal interests or to fulfill the foreign language general education requirement. Some of the languages currently offered include Arabic, Croatian, Czech, Dutch, Farsi (Persian), Finnish, Hebrew, Hindi, Indonesian, Korean, Norwegian, Polish, Portuguese, Sanskrit, Swahili, Swedish, Thai, Turkish, Urdu and Vietnamese.

Faculty

Chair and Professor

Fox, Thomas C.

Professors

Armayor, O. Kimball

Martin, Elaine

Picone, Michael D.

Schnepf, Michael A.

Summers, Kirk

Zupancic, Metka

Associate Professors

Cipria, Alicia B.

Drozd, Andrew M.

Edmunds, Bruce

Godorecci, Barbara J.

Godorecci, Maurizio A.

Janiga-Perkins, Constance G.

Lazda-Cazers, Rasma

Lightfoot, Douglas

Mayer-Robin, Carmen

Summers, Tatiana

Worden, William

Assistant Professors

Baquero-Pecino, Álvaro

Corbalán, Ana M.

Drewelow, Isabelle

Harms, Viktoria

Moody, Sarah

O'Rourke, Erin

Robin, Jean Luc

Rodeño, Ignacio F.

Vázquez, Karina

Arabic (ARB) Courses

ARB 101. Elementary Arabic. 4 sem. hrs.
Modern Standard Arabic students will learn the spoken and written language. This course meets five hours per week with an instructor.

ARB 102. Elementary Arabic. 4 sem. hrs.
Course is a continuation of ARB 101 in which the student will learn the spoken and written language meeting five hours a week with an instructor.
Prerequisite(s): ARB 101.

ARB 201. Intermediate Arabic. 3 sem. hrs.
Continuation of Arabic language on the intermediate level. Students who already have basics of Arabic speaking, writing and reading will develop their skills further. The class meets three hours per week.
Prerequisite(s): ARB 102.

ARB 202. Intermediate Arabic. 3 sem. hrs.
Continuation of ARB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without the permission of the CLC director.
Prerequisite(s): ARB 201.

Chinese (CHI) Courses

CHI 101. Elementary Chinese. 4 sem. hrs.
Contemporary National Language (Mandarin): speaking, reading, and writing. The class meets five hours per week.

CHI 102. Elementary Chinese. 4 sem. hrs.
This is a continuation of Chinese language on the elementary level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension.
Prerequisite(s): CHI 101.

CHI 201. Intermediate Chinese. 3 sem. hrs.
This is a continuation of Chinese language on the intermediate level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension. Offered in the fall semester.
Prerequisite(s): CHI 101 and CHI 102.

CHI 202. Intermediate Chinese. 3 sem. hrs.
This is the second semester of intermediate Chinese. Offered in the spring semester.
Prerequisite(s): CHI 201.

CHI 301. Intermediate Chinese. 3 sem. hrs.
Study of contemporary Chinese language and literature. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 302. Intermediate Chinese. 3 sem. hrs.
Study of contemporary Chinese language and literature. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 350. Traditional Chinese Lit Trans. 3 sem. hrs.
Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.

CHI 351. Modern Chinese Lit Trans. 3 sem. hrs.
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

CHI 353. Conversation/Composition. 1-4 sem. hr.
Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.
Prerequisite(s): CHI 202.

CHI 354. Conversation/Composition. 1-4 sem. hr.
Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.
Prerequisite(s): CHI 202.

CHI 401. Classical Chinese Language. 3 sem. hrs.
Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 402. Literary Chinese Language. 3 sem. hrs.
Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.
Prerequisite(s): CHI 202.

Classics (CL) Courses

CL 222. Greek Roman Mythology. 3 sem. hrs.
Introduction to classical mythology itself and the principal Greek and Roman myths. Offered each semester.

CL 235. Christian Church To 1500. 3 sem. hrs.
Same as HY 235.

CL 323. Alexander the Great, Then & Now. 3 sem. hrs.
We will study the journey and conquests of Alexander the Great as a historical and cultural event. His expedition took him from Greece, through the countries of the Middle and Near East, all the way to India. Many Western leaders (including Americans) have tried to repeat Alexander's achievement with limited success. Our exploration will look at the reasons of subsequent failures, among other issues.

CL 350. Roman Religion. 3 sem. hrs.
Survey of the rites and structure of ancient Roman cult with special emphasis on the Roman religious calendar and the clash between paganism and Christianity. Writing proficiency within this discipline is required for a passing grade in this course.

CL 365. Greece & Rome in Film. 3 sem. hrs.
This course integrates literature, history, and film. Many of the films we watch attempt to reconstruct the ancient world to some degree of accuracy, while others are inspired by themes of ancient literature, but without regard to historic authenticity. Students read several primary sources to help them discern inauthentic elements or appreciate good interpretations in film.

CL 380. Special Topics. 3-6 sem. hrs.
Detailed investigations of specific aspects of Greco-Roman civilization such as ancient drama, women's lives, ancient religion, and technological achievements.

CL 384. Ancient Egypt Near East. 3 sem. hrs.
Introduction to Egypt's ancient history (from the pyramids to the Ptolemies), with emphasis on the civilization's contributions to Western heritage.

CL 385. History Of Greece. 3 sem. hrs.
Survey of the history of Greece from earliest times to the death of Alexander the Great, with emphasis on the Golden Age.

CL 386. History Of Rome. 3 sem. hrs.
Introduction to the ancient history of Rome, with emphasis on the Republic from its Etruscan beginnings to the Second Punic War, and on the golden age of Caesar Augustus at the beginning of the Roman Empire.

Critical Language (CRL) Courses

CRL 101. Elementary Critical Language I. 1-6 sem. hr.
This course is for students studying any beginning level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different languages.

CRL 102. Elem. Critical Language II. 1-6 sem. hr.
This course is equivalent to the second semester level of less commonly taught languages at the Critical Language Center or abroad, and repeatable for credit with different languages.

CRL 201. Int. Critical Language I. 1-6 sem. hr.
This course is equivalent to the third semester level of a less commonly taught language at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL 202. Int. Critical Languages II. 1-6 sem. hr.
This course is equivalent to the fourth semester level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL 301. 3rd Year Critical Lang. I. 1-6 sem. hr.
This special course is for students who have already aquired the intermediate level of a less commonly taught language, pursuing the further level at the Critical Languages Center.

CRL 302. 3rd Year Critical Lang. II. 1-6 sem. hr.
This course is a continuation of CRL 301, only available with appropriate staff, tutor, and external examiner availability, and with permission of the Critical Languages Center director.

Croatian (CROA) Courses

CROA 101. Elem Croatian Language. 3 sem. hrs.
Contemporary Croatian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

CROA 102. Elem Croatian Language. 3 sem. hrs.
Contemporary Croatian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

Czech (CZE) Courses

CZE 101. Elem Czech Language. 3 sem. hrs.
Contemporary Czech: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

CZE 102. Elem Czech Language. 3 sem. hrs.
Contemporary Czech: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

CZE 201. Intermediate Czech. 3 sem. hrs.
Continuation of Czech language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): CZE 102.

CZE 202. Intermediate Czech. 3 sem. hrs.
Continuation of Czech 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): CZE 102.

Dutch (DUT) Courses

DUT 101. Elementary Dutch. 3 sem. hrs.
Contemporary Dutch: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

DUT 102. Elementary Dutch. 3 sem. hrs.
Contemporary Dutch: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): DUT 101.

DUT 202. Intermediate Dutch. 3 sem. hrs.
Continuation of DUT 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): DUT 102.

Farsi (FRS) Courses

FRS 101. Elementary Farsi I. 3 sem. hrs.
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

FRS 102. Elementary Farsi II. 3 sem. hrs.
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): FRS 101.

FRS 201. Intermediate Farsi I. 3 sem. hrs.
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without persmion of the CLC director.
Prerequisite(s): FRS 102.

FRS 202. Intermediate Farsi II. 3 sem. hrs.
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without persmion of the CLC director.
Prerequisite(s): FRS 201.

Finnish (FIN) Courses

FIN 101. Elementary Finnish I. 3 sem. hrs.
Contemporary Finnish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

French (FR) Courses

FR 101. Elementary French I. 4 sem. hrs.
For students with no background or previous study of French. This course focuses on developing communicative abilities in French while emphasizing cultural practices and perspectives. Not open to students who have completed 2 or more years of high school French. Offered each semester.

FR 102. Elementary French II. 4 sem. hrs.
Continuation of FR 101. This course focuses on further enhancing communicative abilities, cultural practices and perspectives in French. Offered each semester.

FR 103. French 1st Year Review. 4 sem. hrs.
Five hours of instruction per week. Intensive review and accelerated study of French at the first- and second-semester college level.

FR 201. Intermediate French. 3 sem. hrs.
Course goals include improvement of reading and writing proficiency, listening comprehension, and speaking skills. Offered each semester.
Prerequisite(s): FR 102 OR FR 103.

FR 202. Intermediate French. 3 sem. hrs.
Continuation of FR 201. Preparation for advanced literature, linguistics, and culture courses.
Prerequisite(s): FR 201.

FR 205. Living In French House. 1-2 sem. hr.
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 206, or 321, or 322, or 323, or 324, or 328, or 329.

FR 206. Living In French House. 1-2 sem. hr.
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 205, or 321, or 322, or 323, or 324, or 328, or 329.

FR 321. Voices In French. 3 sem. hrs.
Introduction to literary and cultural analysis through selected works of French cultural expression. Emphasis on expanding vocabulary and improving grammar in order to develop speaking, reading, and writing proficiency beyond the second year. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the fall semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202.

FR 322. Advanced French Grammar. 3 sem. hrs.
Review of French grammar with emphasis on written exercises. Study abroad equivalent: FR 329. Offered each semester.
Prerequisite(s): FR 202.

FR 323. Text, Image, And Word. 3 sem. hrs.
Contemporary French and Francophone society and culture. Continued work in literary and cultural analysis through selected works of recent cultural media (journalism, literature, music, film). Emphasis on written exposition, oral proficiency, critical thinking, grammar review. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the spring semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202.

FR 324. Commercial French. 3 sem. hrs.
French business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): FR 202.

FR 328. French Conversation-Abroad. 3 sem. hrs.
Contemporary French society and culture. Direct on-site cultural exposure. Analysis of recent cultural media (e.g., journalism, literature, song, film) in context. Emphasis is on written exposition, oral proficiency, grammar review, and critical appraisal in relation to an immersion experience in French culture. Offered in France. For purposes of satisfying the requirements of the French major or minor, this course can be used in lieu of either FR 321 or FR 323.

FR 329. Adv Fr Grammar-Abroad. 3 sem. hrs.

FR 331. French Civilization. 3 sem. hrs.
The course is also taught abroad as FR 339. Study of French artistic heritage and development of social and political institutions. Offered alternate spring semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 339. French Civilizatn-Abroad. 3 sem. hrs.

FR 341. Survey Fr Literature I. 3 sem. hrs.
French literature from its origins through the 18th century. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 351. Survey Fr Literature II. 3 sem. hrs.
French literature of the 19th and 20th centuries. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323.

FR 361. Intro Romance Linguistic (Same as IT 361 and SP 361). 3 sem. hrs.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

FR 380. Special Topics. 1-3 sem. hr.
Directed reading, research, or French Immersion Retreat. Also offered within the curriculum for the Alabama-in-France summer program. Topic to be determined in consultation with the instructor or program director.

FR 421. Pronunciation & Phonetics. 3 sem. hrs.
Introduction to phonetic theory and corrective phonetics through auditory discrimination exercises and contrastive analysis; emphasis on mastery of oral skills. Offered each semester.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 431. Contemp French Civiliztn. 3 sem. hrs.
Exploration of the political, technological, and cultural movements of France from 1871 to the present. Offered alternate spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323.

FR 461. French Linguistics. 3 sem. hrs.
Linguistic theory applied in the analysis and description of French phonological, morphological, syntactic, and semantic structures. Offered alternate years.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 470. Undergrad Sem In French. 3 sem. hrs.
Intensive examination of a selected topic, with emphasis on student research and presentations. A representative sample of topics would include: Francophone Africa, The 19-Century French Novel, French-English Translation, and Poetry of the French Renaissance. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323.

FR 480. Special Topics. 3 sem. hrs.
Directed reading or research related to French and Francophone language, literature and culture. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323.

FR 484. Adv Converstn Phonetics. 3 sem. hrs.
Emphasis is on improvement of oral expression in a variety of contexts. Consideration of phonetics as it serves this goal.
Prerequisite(s): FR 321 or FR 322 or FR 323.

German (GN) Courses

GN 101. Elementary German I. 4 sem. hrs.
First semester German language course. Class meets five times a week.

GN 102. Elementary German II. 4 sem. hrs.
Second semester German language course. Class meets five times a week.
Prerequisite(s): GN 101 or advisor placement.

GN 103. Accelerated Elementary German. 4 sem. hrs.
Intensive, accelerated study of first and second semester German language curriculum. Class meets five times a week.

GN 201. Intermediate German I. 3 sem. hrs.
Third semester German language course.
Prerequisite(s): GN 102 or GN 103 or advisor placement.

GN 202. Intermediate German II. 3 sem. hrs.
Fourth semester German language course.
Prerequisite(s): GN 201 or advisor placement.

GN 203. Accelerat Intermediate German. 4 sem. hrs.
Either GN 102, 103
Prerequisite(s): GN 102 or GN 103.

GN 205. Living German House I. 2 sem. hrs.
Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 206. Living German House II. 2 sem. hrs.
Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 250. Germanic Mythology. 3 sem. hrs.
Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

GN 254. Survey of German Cinema. 3 sem. hrs.
An overview of German Cinema from Silent Era in the 20's through New German Cinema, to post-wall works. Topics: history, socio-cultural frame, directors and cinematography.

GN 260. Holocaust In Film & Lit. 3 sem. hrs.
An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

GN 264. German Literature Translatn I. 3 sem. hrs.
A survey in English of German literary masterpieces ranging from the Ring of the Nibelungs and Tristan and Isolde to Goethe's Faust. Themes include love, myth, religious freedom, war and peace, and nationhood.

GN 265. German Lit In Translatn II. 3 sem. hrs.
A survey in English of German literary masterpieces of the 19th and 20th centuries. Themes include communism and capitalism, Hitler and the Holocaust, gender, and the responsibility of scientists. Authors might include Kafka, Hesse, Mann, and Grass.

GN 270. Special Topics. 3 sem. hrs.
Topic varies. No knowledge of German is required.

GN 275. Germany Contemp Europe. 3 sem. hrs.
Study of Germany's place in today's Europe; political, social, and cultural aspects are examined.

GN 361. Interm Convers Comp I. 3 sem. hrs.
Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.
Prerequisite(s): GN 202 or instructor approval.

GN 362. Interm Convers Comp II. 3 sem. hrs.
Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.
Prerequisite(s): GN 361 or instructor approval.

GN 365. Business German. 3 sem. hrs.
Acquisition of business German used in commercial transactions. Emphasis is on business letters and business conversation.
Prerequisite(s): GN 361 or GN 362 or instructor approval.

GN 371. German Culture and Civilization Thru 1832. 3 sem. hrs.
A survey of German cultural history from the Germanic tribes through the Age of Goethe. Emphasis is on developments in philosophy, religious thought, music, art, architecture, and popular culture in the context of political and social history.
Prerequisite(s): GN 361 or GN 362 or instructor approval.

GN 372. Germn Cult Civ 1832-Present. 3 sem. hrs.
A survey of German cultural history from the 1830s to the present.

GN 381. Directed Readings. 1-4 sem. hr.
In addition to the stated prerequisites, all 400-level German courses have as a prerequisite 20 hours of coursework in German, or permission of the instructor.

GN 403. Undergraduate Seminar. 3 sem. hrs.
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372.

GN 404. Undergraduate Seminar. 3 sem. hrs.
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372.

GN 450. Intermed Business German. 3 sem. hrs.
Expands and deepens knowledge of business German and prepares students for such internationally recognized business German examinations as the Zertifikat Deutsch f'r den Beruf and Pr'fung Wirtschaftsdeutsch International.
Prerequisite(s): GN 365.

GN 461. Adv Gn Convers Comp I. 3 sem. hrs.
A continuation of GN 361 or GN 362. Discussion, readings, essay writing, and oral reports on variable topics.
Prerequisite(s): GN 361 OR GN 362.

GN 462. Adv Gn Convers Comp II. 3 sem. hrs.
Discussion, readings, essay writing, and oral reports in German.
Prerequisite(s): GN 361 or GN 362.

GN 481. Directed Readings. 1-4 sem. hr.
Students planning to enroll should confer with the instructor before registration.

GN 482. Directed Readings. 1-4 sem. hr.
Students planning to enroll should confer with the instructor before registration.

Greek (GR) Courses

GR 101. Beginning Greek I. 3 sem. hrs.
Fundamentals of Greek grammar and syntax. Offered in the fall semester.

GR 102. Beginning Greek II. 3 sem. hrs.
Continued study of the fundamentals of Greek grammar and syntax. Offered in the spring semester.

GR 201. Intermediate Greek I. 3 sem. hrs.
Introduction to and practice in reading Greek literature, particularly Homer's Iliad.

GR 202. Intermediate Greek II. 3 sem. hrs.
An introduction to Greek prose with an emphasis on Xenophon's Anabasis.

GR 301. Advanced Greek I. 3 sem. hrs.
Select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 302. Advanced Greek II. 3 sem. hrs.
More select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 490. Adv Greek Literature. 3 sem. hrs.
Select readings in Greek literature. An effort is made to accommodate the student's special interests. The course may be repeated for credit. Offered according to demand.

Hebrew (HEB) Courses

HEB 101. Elem Hebrew Language. 3 sem. hrs.
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HEB 102. Elem Hebrew Language. 3 sem. hrs.
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): HEB 101.

HEB 201. Intermed Hebrew Language. 3 sem. hrs.
Continuation of Hebrew language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): HEB 102.

HEB 202. Intermed Hebrew Language. 3 sem. hrs.
Continuation of HEB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without consent of CLC director. Offered according to demand.
Prerequisite(s): HEB 102.

Hindi (HIN) Courses

HIN 101. Elementary Hindi. 3 sem. hrs.
Contemporary Hindi: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HIN 102. Elementary Hindi. 3 sem. hrs.
Contemporary Hindi: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): HIN 101.

Indonesian (INDO) Courses

INDO 101. Elem Indonesian Language. 3 sem. hrs.
Contemporary Indonesian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

INDO 102. Elem Indonesian Language. 3 sem. hrs.
Contemporary Indonesian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): INDO 101.

INDO 201. Intermediate Indonesian. 3 sem. hrs.
Continuation of Indonesian language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand.
Prerequisite(s): INDO 102.

Italian (IT) Courses

IT 101. Introductory Italian I. 4 sem. hrs.
Five hours of instruction per week. The course is the first semester of college-level language study. Offered each semester.

IT 102. Introductory Italian II. 4 sem. hrs.
Five hours of instruction per week. The course is the second semester of college-level language study. Offered each semester.

IT 201. Intermediate Italian I. 3 sem. hrs.
Basic grammar review, development of writing skills, and introduction to literature.
Prerequisite(s): IT 102.

IT 202. Intermediate Italian. 3 sem. hrs.
Basic grammar review, development of writing skills, and introduction to literature.

IT 353. Italian Conversation. 3 sem. hrs.
Development of conversational skills through role-playing, oral presentations, and vocabulary building.

IT 356. Adv Grammar Composition. 3 sem. hrs.
A combined writing theory and writing skills course focusing upon more advanced notions of Italian grammar and on the development of techniques for written expression.

IT 361. Intro Romance Linguistic. 3 sem. hrs.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

IT 364. Masterpieces of Italian Lit. 3 sem. hrs.
Study of selected major works of Italian literature in translation without restriction as to literary period or genre.

IT 380. Special Topics. 3 sem. hrs.
The subject matter varies, and includes "Film and Literature" and "Fascism in Film and Literature" with lectures in English. *No prerequisite necessary for courses offered in English. May be repeated for credit.

IT 480. Special Topics. 3 sem. hrs.
The subject matter varies. May be repeated for credit. Offered according to demand.

Japanese (JA) Courses

JA 101. Elementary Japanese I. 4 sem. hrs.
Five hours of instruction per week. Acquisition of elementary Japanese language skills in listening, speaking, reading, and writing.

JA 102. Elementary Japanese II. 4 sem. hrs.
Five hours of instruction per week. A continuation of JA 101.
Prerequisite(s): JA 101.

JA 201. Intermediate Japanese I. 3 sem. hrs.
A continuation of JA 102.
Prerequisite(s): JA 102.

JA 202. Intermediate Japanese II. 3 sem. hrs.
A continuation of JA 201.
Prerequisite(s): JA 201.

JA 301. Third Year Japanese I. 3 sem. hrs.
A continuation of JA 202.

JA 302. Third Year Japanese II. 3 sem. hrs.
A continuation of JA 301.

JA 356. Traditional Japanese Lit Trans. 3 sem. hrs.
Introduction to Japanese literature from the earliest times through the Tokugawa period. No knowledge of Japanese is required.

JA 357. Japanese Literature & Film. 3 sem. hrs.
Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

JA 371. Japanese Culture I. 3 sem. hrs.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include modern history, characteristics of Japanese business, social problems, traditional religious and philosophy of the Japanese people.
Prerequisite(s): JA 102.

JA 372. Japanese Culture II. 3 sem. hrs.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include traditional art forms, Buddhism sculptures, movies, traditional music and theater, subculture and marital arts.
Prerequisite(s): JA 102.

JA 390. Topics Japanese Studies. 3 sem. hrs.
Discussion and research of various topics related to Japanese language/culture. Topics may change each semester, such as KANJI, translation, or traditional and modern Japanese culture and society. With permission of the program director, this course may be applied toward the Japanese minor.

JA 410. 4 Yr Read/Write Japanese. 3 sem. hrs.
A continuation of JA 301 and JA 302 with emphasis on development of reading and writing skills.

JA 411. 4th Year Spoken Japanese. 3 sem. hrs.
A continuation of JA 301 and JA 302 with emphasis on development of listening and speaking skills.

JA 481. Directed Readings. 1-4 sem. hr.

JA 482. Directed Readings. 1-4 sem. hr.

Korean (KOR) Courses

KOR 101. Elementary Korean. 3 sem. hrs.
Contemporary Korean speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

KOR 102. Elementary Korean. 3 sem. hrs.
Contemporary Korean speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 101.

KOR 201. Intermediate Korean. 3 sem. hrs.
Continuation of Korean language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 102.

KOR 202. Intermediate Korean. 3 sem. hrs.
Continuation of KOR 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 201.

Latin (LA) Courses

LA 101. Elementary Latin I. 3 sem. hrs.
Beginning fundamentals of Latin grammar and syntax. Offered in the fall semester.

LA 102. Elementary Latin II. 3 sem. hrs.
Continued study of the fundamentals of Latin grammar and syntax. Offered in the spring semester.
Prerequisite(s): LA 101.

LA 201. Intermed Latin Read I. 3 sem. hrs.
Introduction to and practice at reading Latin literature. Offered in the fall semester.
Prerequisite(s): LA 102.

LA 202. Intermed Latin Read II. 3 sem. hrs.
Selected readings from Latin literature. Offered in the spring semester.
Prerequisite(s): LA 201.

LA 301. Advanced Reading in a Roman Author or Genre. 3 sem. hrs.
Readings in Latin literature to the time of Julius Caesar. Offered in the fall semester.

LA 302. Advanced Reading in a Roman Author or Genre. 3 sem. hrs.
Selected readings in later Roman literature. Offered in the spring semester.

LA 490. Readings In Latin Literature. 3 sem. hrs.
The subject matter varies. May be repeated for credit. Offered according to demand.
Prerequisite(s): LA 301 or LA 302.

Modern Greek (MDGR) Courses

MDGR 101. Elementary Modern Greek. 3 sem. hrs.
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

MDGR 102. Elementary Modern Greek. 3 sem. hrs.
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

MDGR 201. Intermed Modern Gr. 3 sem. hrs.
Continuation of modern Greek on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102.

MDGR 202. Intermed Modern Greek. 3 sem. hrs.
Continuation of MDGR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102.

Modern Languages and Classics (MLC) Courses

MLC 155. Freshman Seminar. 3 sem. hrs.

Norwegian (NOR) Courses

NOR 101. Elem Norwegian Language. 3 sem. hrs.
Contemporary Norwegian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

Polish (POL) Courses

POL 101. Elementary Polish. 3 sem. hrs.
Contemporary Polish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

Portuguese (POR) Courses

POR 101. Elementary Portuguese I. 3 sem. hrs.
Contemporary Portuguese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

POR 102. Elementary Portuguese II. 3 sem. hrs.
Contemporary Portuguese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): POR 101.

POR 201. Intermed Portuguese I. 3 sem. hrs.
Continuation of Portuguese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): POR 102.

POR 202. Intermed Portuguese II. 3 sem. hrs.
Continuation of POR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): POR 102.

Russian (RUS) Courses

RUS 101. Elementary Russian I. 4 sem. hrs.
This course introduces students to the basics of Russian: alphabet, pronunciation, elementary vocabulary, and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.

RUS 102. Elementary Russian II. 4 sem. hrs.
This course builds upon the foundation established in RUS 101and continues with the acquisition of elementary vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.
Prerequisite(s): RUS 101.

RUS 201. Intermediate Russian I. 3 sem. hrs.
This course builds upon the foundation established in RUS 101and RUS 102 and continues with the acquisition of intermediate level vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course introduces students to short literary texts.
Prerequisite(s): RUS 102 or RUS 111.

RUS 202. Intermediate Russian II. 3 sem. hrs.
This course builds upon the foundation established in RUS 101, RUS 102, and RUS 201 and completes the acquisition of basic vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course continues the use of short literary texts and introduces students to higher-style literary forms.
Prerequisite(s): RUS 201.

RUS 211. Study Tour Russia. 3 sem. hrs.
A tour of Moscow, St. Petersburg, and other cities of the former Soviet Union. Focus is on Russia's art and architecture and on the diverse peoples of the former U.S.S.R. and their way of life. Students who have studied Russian have an opportunity to use it.

RUS 223. Russian Literature in Translation I. 3 sem. hrs.
Survey of Russian literature including the Golden Age until the 1880s.Authors read include Pushkin, Gogol, Lermontov, Dostoevsky, Turgenev and Tolstoy. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 224. Russian Literature in Translation II. 3 sem. hrs.
Survey of Russian literature from the 1880s until the present. Authors read include Bunin, Babel, Bulgakov, Zamyatin, Pasternak and Solzhenitsyn. No knowledge of Russian is required. Usually offered in the spring semester.

RUS 229. Russian Drama. 3 sem. hrs.
Introduction to the classics of Russian drama. No knowledge of Russian is required.

RUS 251. Russian Culture. 3 sem. hrs.
Topics may include geography, law, science, agriculture, literature, sports, cinema, peasants, icons, the Russian Orthodox Church, Ukrainian Easter egg art and other folk art and crafts, foreign policy, food and cooking, entertainment, etc. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 252. Russian Folklore. 3 sem. hrs.
Survey of the various genres of Russian folklore including the folk epics, historical songs, fairy tales, and proverbs as well as an introduction to various folk beliefs. No knowledge of Russian is required.

RUS 309. Adv Russian Converstn I. 3 sem. hrs.
Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.
Prerequisite(s): RUS 202.

RUS 310. Adv Russian Converstn II. 3 sem. hrs.
Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.

RUS 325. Dostoevsky. 3 sem. hrs.
The life and works of Fyodor Dostoevsky. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

RUS 326. Tolstoy. 3 sem. hrs.
The life and works of Leo Tolstoy. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

RUS 327. Chekhov. 3 sem. hrs.
The life and works of Anton Chekhov. No knowledge of Russian is required.

RUS 328. Nabokov. 3 sem. hrs.
Introduction to the life and major works of Nabokov. Writing proficiency is required. No knowledge of Russion required.

RUS 329. Solzhenitsyn. 3 sem. hrs.
This course will cover the life and major works of Alexander Solzhenitsyn. Writing proficiency within this discipline is required for a passing grade in this course. No knowledge of Russian is required.

RUS 351. Russia to 1894. 3 sem. hrs.
Russia to 1894.

RUS 352. Russia and SU since 1994. 3 sem. hrs.
Russia and the Soviet Union since 1894.

RUS 361. Adv Rus Grammar Comp I. 3 sem. hrs.
The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.
Prerequisite(s): RUS 202.

RUS 362. Adv Rus Grammar Comp II. 3 sem. hrs.
The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.
Prerequisite(s): RUS 361.

RUS 401. Directed Readings. 1-3 sem. hr.

RUS 402. Directed Readings. 1-3 sem. hr.

RUS 425. Readings In Russian Press. 3 sem. hrs.
Topics of current interest, such as the social sciences, the economy, the environment, medicine and health, and the arts. Development of passive vocabulary.
Prerequisite(s): RUS 310 or RUS 362.

RUS 426. Readings in Russian History. 3 sem. hrs.
This course introduces students to advanced texts in Russian thematically focused on Russian history.
Prerequisite(s): RUS 101 and RUS 102 and RUS 201 and RUS 202 and RUS 361 and RUS 362.

RUS 427. Business Russian. 3 sem. hrs.
Acquisition of business Russian used in commercial transactions. Emphasis is on business letters and business conversation.
Prerequisite(s): RUS 310 or RUS 362.

RUS 440. Russian Phonetics. 3 sem. hrs.
Linguistic analysis of the Russian sound system in conjunction with practice in Russian pronunciation.

Sanskrit (SAN) Courses

SAN 101. Elementary Sanskrit. 3 sem. hrs.
Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

SAN 102. Elementary Sanskrit. 3 sem. hrs.
Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook and listen to assigned audio materials (CDs, or computer sound files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

Spanish (SP) Courses

SP 101. Introductory Spanish I. 4 sem. hrs.
Five hours of instruction per week. The course is the first semester of college-level study of Spanish. Offered each year.

SP 102. Introductory Spanish II. 4 sem. hrs.
Continuation of written and oral skills in Spanish. Five hours of instruction per week. The course is the second semester of college-level study of Spanish. Conducted in Spanish. Offered each year.
Prerequisite(s): SP 101.

SP 103. Intensive Review Intro Spanish. 4 sem. hrs.
Five hours of instruction per week. Intensive review and accelerated study of Spanish language at the first- and second-semester college level. Conducted in Spanish. Offered each year.

SP 104. Spanish for Engineering. 6 sem. hrs.
An introductory course for Spanish language with an emphasis on vocabulary for Engineers.

SP 201. Intermediate Spanish. 3 sem. hrs.
Review and development of grammar and syntax; development of speaking, reading, and writing skills.
Prerequisite(s): SP 102 or SP 103.

SP 202. Intermediate Spanish. 3 sem. hrs.
Review and development of grammar and syntax; development of speaking, reading, and writing skills.
Prerequisite(s): SP 201 or placement.

SP 205. Spanish House I. 1.5 sem. hr.
One-Semester residence in Spanish House. 1.5 crs.
Prerequisite(s): Must have faculty director's permission.

SP 206. Spanish House II. 1.5 sem. hr.
One-semester residence in Spanish house for 1.5hrs crs.
Prerequisite(s): pre-req must have faculty director's permission.

SP 352. Spanish Conversation. 3 sem. hrs.

SP 353. Spanish Conversation. 3 sem. hrs.
The course is also offered in Spain as SP 352; it is not open to native and heritage speakers. Offered each semester. This is a required course for majors/minors.
Prerequisite(s): SP 202 or placement.

SP 354. Adv Grammar & Compositn. 3 sem. hrs.

SP 356. Adv Grammar And Compos. 3 sem. hrs.
The course is also offered in Spain as SP 354. Review of Spanish grammar with emphasis on written expression in Spanish. This is a required course for majors/minors. Offered each semester.
Prerequisite(s): SP 202 or placement.

SP 360. Commercial Spanish. 3 sem. hrs.
Spanish business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP 361. Intro Romance Linguistic. 3 sem. hrs.
Credit for this course is not applicable toward the requirements of the Spanish major or minor.

SP 363. Spanish Civilization. 3 sem. hrs.

SP 364. Spanish Civilization. 3 sem. hrs.
The course is also offered in Spain as SP 363. Study of Spanish artistic heritage and social and political institutions. Offered in the fall semester.

SP 366. Spanish-American Civ. 3 sem. hrs.
Study of the development of Spanish-American civilization from pre-Colombian times to the present. Offered in the spring semester.

SP 367. Technical Writing. 3 sem. hrs.
This course will teach students how to understand and write documents in technical areas usually not taught in conventional language courses. Emphasis on written expression. Students will practice and improve knowledge of spanish grammar and syntax.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP 371. Survey Of Spanish Lit. 3 sem. hrs.
Study of major works in Spanish literature from the Middle Ages through the 18th century. SP 371 and SP 372 offered in alternate semesters.

SP 372. Survey Of Spanish Lit. 3 sem. hrs.
Spanish literature from the 19th century to the present. Readings from important authors, lectures, reports, and analysis. SP 372 and SP 371 offered in alternate semesters.

SP 375. Masterpc Sp-Amer Lit I. 3 sem. hrs.
Study of selected great works in the development of Spanish-American literature from the colonial period to modernism. Offered in fall semester.
Prerequisite(s): SP 353, SP 356, and SP 366 (or SP 364); or permission of the instructor.

SP 376. Masterpc Sp-Amer Lit II. 3 sem. hrs.
Study of selected great works of Spanish-American literature from modernism to the present. Offered in the spring semester.
Prerequisite(s): SP 353, SP 356, and SP 366, (or SP 364); or permission of the instructor.

SP 390. Special Topics. 1-6 sem. hr.
Special studies on topics related to Spanish language, literature, and culture. The content of the course varies from semester to semester. A maximum of 6 credit hours may be earned in SP 390.
Prerequisite(s): SP 353 and SP 356; and (SP 364 or SP 366).

SP 426. 20th Cent Spanish Lit II. 3 sem. hrs.
Reading and discussion of complete texts representative of the literary movements of the period; lectures and reports. Offered in alternate years.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino Literature.

SP 483. Intro to Spanish Linguistics. 3 sem. hrs.
In the Introduction to Spanish Linguistics we study the Spanish language using linguistic analysis in order to discover its underlying structure, which may be taken for granted when simply speaking the language. We examine several topics, including the sound system of the language (phonology), how words are formed (morphology), how phrases and sentences are created (syntax), and how words develop different meanings (semantics and pragmatics). In addition, we discuss other areas such as the evolution of Spanish from Latin, and language variation and change (dialectology and sociolinguistics). Taught in Spanish.
Prerequisite(s): SP 353 and SP 356 or permission of instructor.

SP 484. Phonetics And Pronunciation. 3 sem. hrs.
Introduction to Spanish phonetics with emphasis on the development of correct pronunciation and basic phonetic transcription.
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino literature.

SP 485. Open Topics in Linguistics. 3 sem. hrs.
Topics vary. Sample topic History of the Spanish Language.: This course provides students with an examination of the evolution of Spanish from Latin to modern Spanish. Both internal and external factors will be addressed, including sound change, word formation, syntax and vocabulary, as well as influence from other languages. In doing so, students will be able to observe how variation in earlier forms of Spanish has lead to the creation of different dialects found in modern Spanish. Students will also have the opportunity to analyze medieval and classical Spanish texts in order to trace the development of Spanish along different levels of linguistic analysis. The role of orthography at the various stages of evolution will also be addressed. Taught in Spanish.
Prerequisite(s): SP 353 and SP 356 or permission of instructor.

SP 488. Open Topics Sp Penin Lit. 3 sem. hrs.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 489. Open Topics Sp-Amer Lit. 3 sem. hrs.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 490. Open Topics. 1-6 sem. hr.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 491. Cervantes. 3 sem. hrs.
In-depth study of Don Quixote. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

Swahili (SWA) Courses

SWA 101. Elementary Swahili. 3 sem. hrs.
Contemporary Swahili: speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

SWA 102. Elementary Swahili. 3 sem. hrs.
Contemporary Swahili: speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): SWA 101.

SWA 201. Intermediate Swahili I. 3 sem. hrs.
Continuation of Swahili language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102.

SWA 202. Intermediate Swahili II. 3 sem. hrs.
Continuation of SWA 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102.

Swedish (SWED) Courses

SWED 101. Elementary Swedish. 3 sem. hrs.
Contemporary Swedish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

SWED 102. Elementary Swedish. 3 sem. hrs.
Contemporary Swedish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

SWED 201. Intermediate Swedish. 3 sem. hrs.
Continuation of Swedish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): SWED 102.

Thai (THAI) Courses

THAI 101. Elementary Thai. 3 sem. hrs.
Contemporary Thai: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

THAI 102. Elementary Thai. 3 sem. hrs.
Contemporary Thai: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): THAI 101.

THAI 201. Intermediate Thai. 3 sem. hrs.
Continuation of Thai language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): THAI 102.

Turkish (TURK) Courses

TURK 101. Elementary Turkish. 3 sem. hrs.
Contemporary Turkish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

TURK 102. Elementary Turkish. 3 sem. hrs.
Contemporary Turkish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): TURK 101.

TURK 201. Intermediate Turkish. 3 sem. hrs.
Continuation of Turkish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): TURK 102.

TURK 202. Intermediate Turkish. 3 sem. hrs.
Continuation of TURK 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): TURK 102.

Urdu (URDU) Courses

URDU 101. Elementary Urdu. 3 sem. hrs.
Contemporary Urdu: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

Vietnamese (VIET) Courses

VIET 101. Elementary Vietnamese. 3 sem. hrs.
Contemporary Vietnamese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

VIET 102. Elementary Vietnamese. 3 sem. hrs.
Contemporary Vietnamese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

VIET 201. Intermediate Vietnamese. 3 sem. hrs.
Continuation of Vietnamese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): VIET 102.

New College

The major objective of New College is to create an opportunity for a highly individualized education that allows students to draw from the resources of all University classes and faculty. The New College curriculum has two principal elements. The first element is the depth study, which is the student's area of concentration. Students are also expected to develop their own independent studies and out-of-class learning experiences to enhance their understanding of the subject of their depth studies and to add to their learning experiences. The second element is the general education component, which provides students with opportunities to integrate humanities, social sciences and natural sciences beyond their depth study.

The interdisciplinary experience in New College affords excellent preparation for students with ambitions for graduate study or for professional careers in various areas, including law and medicine.

Admission into the Program

Applications are available at as.ua.edu/nc/how_to_apply/index.php. The admission process is separate from and in addition to admission to The University of Alabama. Two factors are taken into consideration when making a decision for admission: the degree of motivation and serious intellectual independence exhibited by the applicant and the potential for the University to meet the applicant's academic goals. For details on the admissions process, please refer to the New College website.

Degree Requirements

Students complete the bachelor of arts (BA) or the bachelor of science (BS) degree depending on the area in which the depth study is done. Students also complete all University, College of Arts and Sciences, and New College requirements. This includes the general education requirement, the following New College requirements and other sufficient credits to total 120 applicable semester hours.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Office of University Registrar explanation of grade point average calculations.

Required Courses

New College requires the successful completion of the following courses and activities:

		Hours
NEW 100	Intro Interdisc Integratv Stdy	2
NEW 495	Capstone Sem & Senior Project	2
NEW electives 400 level and above		6-12
NEW electives 200 level and above		8-12
Individualized depth study		33-39
Total Hours		51-67

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses must be earned on this campus.

Ancillary Courses

Students pursuing a bachelor of science (BS) degree must also complete MATH 125 Calculus I or MATH 145 Honors Calculus I.

Required Minor

Students complete a New College depth study and are not required to complete a minor program of study.

Additional New College Requirements

Students are expected to complete a minimum of 42 semester hours while enrolled in New College. In addition, students are required to undergo a third-year program review. As part of their general education experience, New College requires students to complete six to eight hours of core designated foreign language courses or approved equivalent.

Integrative Seminars

The five seminars introduce students to the major areas of liberal arts study in one of three integrative themes: environment, sustainability and conservation; creativity and culture; and social problems and social change. The seminars required for graduation are arranged in two levels. The level I seminars are designed for entering students (usually freshmen and sophomores) while the level II seminars are designed for upper-level students. All students must complete five seminars with at least one seminar in each theme, including two level I seminars from different themes and two level II seminars in any theme. A minimum grade of C- is required for each integrative seminar.

Out-of-class Learning/Independent Study

New College has a strong commitment to provide students opportunities to pursue their academic interests outside of the classroom through out-of-class learning experiences for credit. In these out-of-class learning/independent study experiences, an agreement (or contract) is made among the student, the project director and New College. The contract is a clear, concise statement that includes the course area, topic, or problem the student intends to study along with the bibliography, plans for evaluating the study, and the anticipated outcomes of the study.

New College LifeTrack

New College and the College of Continuing Studies
305 Martha Parham Hall
learnon.ua.edu
bamabydistance.ua.edu

Admission into the Program

Interested students should apply for admission to The University of Alabama and designate New College LifeTrack as the program type. For more information concerning admissions procedures, write to The University of Alabama, New College LifeTrack, Box 870388, Tuscaloosa, AL 35487-0388; call (205) 348-6000; email aoinfo@ccs.ua.edu; or visit learnon.ua.edu.

Degree Requirements

Students earning a bachelor of arts (BA) degree or bachelor of science (BS) degree must complete a minimum of 120 applicable semester hours that include the following elements:

	Hours
Foundations of Adult Learning Seminar	3
LifeTrack Writing Skills and Strategies	3
Humanities *	12
Communication skills	6
Social sciences *	12
Natural sciences *	8
Mathematics *	3
Depth study	30
Senior project	8
Electives	35
Total Hours	120

* Courses that satisfy the general education requirement will fulfill the humanities, social sciences, natural sciences, and mathematics requirements. Students pursuing a BS degree are required to complete MATH 125 Calculus I or MATH 145 Honors Calculus I or higher.

Additional Major Requirements

The LifeTrack Program (formerly EXD Program) differs in purpose, scope and specificity from degrees designating professional certification. For this reason, no more than 30 semester hours of credit from a professional school may apply toward a degree through the LifeTrack Program.

Upper-level Residency

Following completion of the Foundations of Adult Learning Seminar, LifeTrack program students must earn a minimum of 30 semester hours of University of Alabama credit. Except for the required three-day Foundations of Adult Learning Seminar, students do not have to be present on The University of Alabama campus. Residency is fulfilled by working under the guidance of University of Alabama faculty through distance learning.

Civic Engagement and Leadership Minor

New College and Department of Philosophy with the Department of Military Science
New College
201 Lloyd Hall
as.ua.edu/nc
newcollege@as.ua.edu
Department of Philosophy
336 ten Hoor Hall
as.ua.edu/philosophy
philosophy@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in civic engagement and leadership requires the successful completion of the following 19 semester hours:

		Hours
NEW 237 or	Cooperation & Conflict	4
NEW 238	Honors: Coop. & Conflict	
PHL 292 or	Introduction to Ethics	3
PHL 221	Honors Introduction to Ethics	
Elective courses *		12
OR		
MIL or AFS **		
Total Hours		19

*Students must earn 12 hours of courses chosen from the following:

AAST 352	Social Inequality	3
CSM 405	Public Policy	3
CSM 437	Developing The Leader Within	3
HES 450	Volunteer & Civic Respon	1-3
MGT 300	Org Theory & Behavior	3
MGT 320	Leadership	3
MGT 341	Business Ethics	3
MC 405	Mass Communctn Ethics	3
MC 413	Communication & Diversity	3
NEW 270	Leader Soc Justice Activism	3
NEW 415	Gender, Sexuality &Pop Culture	3
NEW 436	Public Leadership	4
PHL 195	Introduction to Deductive Logic	3
PHL 420	Special Studies in Ethics	3
PSC 102	America & The World	3
PY 372	Social Psychology	3
SW 351	Oppression & Soc Injustice	3
UH 101	Survey: Values & Society	3
WS 200	Intro To Women Studies	3

**Qualified ROTC Candidates may complete secondary courses from the following:

AFS 350	Usaf Leadership Studies	3
AFS 360	Usaf Leadership Studies	3
AFS 470	National Security Affair	3
AFS 480	National Security Affair	3
MIL 110	Leadership/Natl Security	1
MIL 120	Foundatn Leadershp Team Develm	1
MIL 210	Basic Leadership Skills	2
MIL 220	Military Leadership Skills	2
MIL 310	Small Unit Tactical Leadership	3
MIL 320	Advanced Leadership Skills	3
MIL 410	Military Science IV	3
MIL 420	Military Science IV	3

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Student-Designed Minor

New College
201 Lloyd Hall
as.ua.edu/nc
newcollege@as.ua.edu
The student-designed minor originates with a student's interest in issues or questions that cross disciplinary lines.

Admission into the Minor

Proposals for the minor are developed by the student in consultation with faculty. Proposals require a clearly defined rationale, a tentative set of courses (including one activity that clearly integrates the program of study), and identification of a faculty sponsor. Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The student-designed minor requires successful completion of the following 21 semester hours:

	Hours
Electives 300 or 400 level *	12
Electives *	9
Total Hours	21

* Coursework should be selected from at least two disciplines and from a set of courses based on the approved proposal.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Director

Adams, Natalie

Professor

Roach, Catherine M.

Associate Professors

Cherry, Julia

Galbraith, Marysia

Hall, James C.

Steinberg, Michael K.

Trost, Theodore L.

Assistant Professors

Dewar, Andrew

Spears, Ellen

Professors emeriti

Blewitt, Harry L, PhD

Passerini, Edward M, PhD

Rosenberg, Jerome, PhD

Instructors

Brickman, Barbara

Caputo, Jennifer

Miller, John

Purcell, Margaret

Surman, Darren

Courses

NEW 100. Intro Interdisc Integratv Stdy. 1-2 sem. hr.
Designed to help New College students become more informed about the University and about New College so that they may maximize their opportunities in their undergraduate programs through New College. Enrollment is limited to New College students.

NEW 155. Freshman Seminar. 3 sem. hrs.

NEW 200. Prior Learning. 1-99 sem. hr.

NEW 201. Recreation For Life. 1 sem. hr.
In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 202. Recreation For Life. 1 sem. hr.
In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 211. Perspectives in the Humanities. 4 sem. hrs.
Introductory course in the humanities (art, literature, music, etc.) with a focus on problem solving, risk taking and communication. Human behavior and writing skills are stressed.

NEW 212. Creativity. 4 sem. hrs.
This interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion.

NEW 215. Perspec. on Env. Literature. 4 sem. hrs.
Considers perspectives on environmental studies within the humanities by examining key texts of environmental literature.

NEW 222. Academic Potential. 2 sem. hrs.
This course is designed to assist students in developing practical study strategies and attitudinal elements of college success. Topics of primary focus include self-assessment, motivation, personal responsibility, time management, memory, textbook reading, note taking, test preparation, and exam taking. Open to all students.

NEW 223. Mcnair Scholar'S Seminar. 1 sem. hr.
To provide knowledge and skills in a variety of areas to strengthen personal, academic, and research competencies vital to success in graduate programs.

NEW 226. Organic Farming. 4 sem. hrs.
An intensive, hands-on course in organic farming taught at a local working farm. Covers the basics of organic farming while also addressing questions about organic versus industrial agriculture models in relation to current environmental problems and solutions.

NEW 230. Environmental Studies. 4 sem. hrs.
This course engages students in the study of environmental problems and solutions. It includes an examination of fundamental assumptions about the ethical human-nature relation and of how to value nature. The approach is interdisciplinary, drawing on the humanities, social sciences, and natural sciences.

NEW 237. Cooperation & Conflict. 4 sem. hrs.
This seminar explores cooperation and conflict in human societies; all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 238. Honors: Coop. & Conflict. 4 sem. hrs.
This honors seminar explores cooperation and conflict in human societies – all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 243. Interdisciplinary Sciences. 4 sem. hrs.
This seminar demonstrates how the nature of the laboratory experience plays an essential role in the understanding and advancement of science. Several multidisciplinary experiments are performed in geology, chemistry, physics, and biology.

NEW 270. Leader Soc Justice Activism. 3 sem. hrs.

NEW 273. Social Issues & Ethics. 4 sem. hrs.
This seminar is designed to develop an awareness of the methodologies and concerns of the social sciences as they relate to ethical inquiry. The primary focus is on the nature of inquiry and models for the analysis of ethical issues confronting the modern world. Students will explore the complexity of moral dilemmas and effective societal responses to competing moral obligations in the areas of health care, socio-economic disparities, affirmative action, immigration, and racism.

NEW 310. Independent Study. 1-15 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 311. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 312. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 313. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 314. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 315. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 316. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 317. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 318. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 319. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 320. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 321. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 322. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 332. Experimental Music. 3 sem. hrs.
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We'll begin by defining what experimental music is – what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hop, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 333. CIEL Internship . 9-15 sem. hrs.
This course serves as the course students register for as part of the exchange program with the Consoritum for Innovative Environment in Learning. Students pay tuition to UA but actually study as a full-time student at one of the 12 CIEL sister institutions.

NEW 338. New College Review I. 2 sem. hrs.
This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students gain experience in thematic approaches to a publication, concept formation for an audience, socially responsible publishing, and writing and editing persuasive essays. Students are strongly encouraged to take both.

NEW 339. New College Review II. 2 sem. hrs.
This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students edit, design, and distribute the New College Review. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW 341. Social Action and Performance. 3 sem. hrs.
Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted
Prerequisite(s): EN 101 and EN 102.

NEW 342. Social Action and Performance. 3 sem. hrs.
Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted.
Prerequisite(s): (EN 101 and EN 102) or EN 103.

NEW 360. Sound Studies. 3 sem. hrs.
How do we experience, define, use and abuse sound? What elements of a sound determine their meaning to us, and why? What can we learn about the world by focusing on its sounds? An emerging interdisciplinary field of research, sound studies asks these questions and more, in an attempt to uncover the important role of sound in our lives. Why do shopping malls sound like they do? What do cellphone ringtones tell you about a person? How has the changing soundscape of the ocean affected natural processes and wildlife? Why do clocktower bells ring? How is music used to both soothe, entertain, and torture or control people? This interdisciplinary course explores sound in a variety of current and historical global contexts – of which music is only one small part – examining the many ways sound signifies and defines our cultures and histories. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 361. Handmade Sounds: A Hands-on History of Electronic Music. 4 sem. hrs.
Did you know you can make electronic music with credit cards? Old toys? 30-cent circuit boards? This course will teach you to build your own electronic orchestra from scratch while also exploring the history of electronic music, with a special focus on tinkering experimenters that created electronic music using self-made instruments. Through a combination of theory and practice, you will learn about electronic music's pioneers, recreating some of their early experiments to experience this history with your own hands and ears. We will explore the construction of a variety of simple electronic instruments, learn to play them, and perform a concert at the end of the term. No previous musical or technical experience is required, but there will be a significant amount of hands-on work with tools and wires in addition to the usual course load of reading, writing and discussion, so an interest in working with technology is a must. Each day of the course we will discuss the work of historical figures in electronic music followed by a laboratory period of hands-on exploration and creation. You are required to write 10 500-word essays articulating your response to the course materials. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 365. Introduction to Environmental Policy. 3 sem. hrs.
This introductory environmental policy course reviews major developments in environmental regulation in the United States, considered in a global context. Readings examine the evolution of U.S. environmental policy, the form and function of social institutions used to govern human-environment interactions, including markets, state and civil society, and conventions, norms, and morals. U.S. and U.N. legal structures, agencies, and NGOs are addressed, with attention to comparative regulatory frameworks. The "new institutional approach," "resource regimes," and various incremental and transformative institutional reforms are discussed. The impact of economic and cultural factors—including class, race, gender, and location—on resource use and other policy decisions affecting the physical and built environments will be explored. Evolving institutional approaches to energy use, such as sustainability, "wise use," adaptive management, and resilience are examined.
Prerequisite(s): No prerequisites.

NEW 401. Birds and Birding. 4 sem. hrs.
This course will introduce students to the popular hobby of birding or bird watching. As such, basic field identification methods will be reviewed and practiced. We will also discuss larger conservation issues as they relate to birds. As we will learn, the phrase "canary in a coal mine" has very practical implication for the modern terrestrial world. We will also discuss the cultural connection between people and birds, and what that has meant for both the destruction and conservation of birds during the past couple of centuries.

NEW 407. 407 W: Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

NEW 412. Songwriting Workshop. 4 sem. hrs.
Songcraft:songwriting workshop focuses on how songs are made. After a study of various genres (blues, troubadours, popular) students will produce their own songs. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 413. Mythologies. 4 sem. hrs.
This course in comparative mythology introduces students to mythological systems from a variety of cultures, including preclassical, Greek, American Indian, Oriental, African, and contemporary American. Recurring motifs and current theories on the mythologizing process are analyzed.

NEW 415. Gender, Sexuality &Pop Culture. 3 sem. hrs.
What constitutes "femininity" and "masculinity" in 21st century America? How have gender roles changed? Is gender performance? What are the cultural expectations around sexuality, and how is it influenced and policed in society? Includes professor's current case research in this field. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 416. American Environmental Thought. 3 sem. hrs.
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization.

NEW 418. Mash-Up: Intermedia Intersections in the Arts. 4 sem. hrs.
This interdisciplinary course discusses intermedia intersections in 20th and 21st century art and music through lectures, discussions and interactions with visiting artists. We will examine the cultural and historical roots of intermedia art, the outpouring of experimentation in the 20th century avant-garde, and the postmodern pastiche of the digital realm in the 21st century. Spanning work created for galleries, to art and music from urban streets and rural villages, we will explore examples from the visual arts, dance, music, film and architecture to learn how and why artists work with and combine different media. In addition to engaging with a variety of artistic works, we will discuss the cultural, philosophical, theoretical, and compositional issues that meet at intermedia junctions. Writing proficiency is required for a passing grade in this course.

NEW 434. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

NEW 435. Documenting Justice II. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.
Prerequisite(s): NEW 434.

NEW 436. Public Leadership. 4 sem. hrs.
This seminar helps students develop the understanding and skills necessary for the practice of public leadership. The course emphasizes framing public issues for discussion and leading the decision making necessary to set the direction of public policy. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 437. Civic Awareness. 4 sem. hrs.
Current events are examined through print and electronic media in order to assist students in evaluating various sources of information concerning public issues and in developing a public philosophy for responsibilities as a citizen.

NEW 439. Urban Spaces: The Nature of Cities. 3 sem. hrs.
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present.

NEW 441. Climate Change Seminar. 4 sem. hrs.
This seminar introduces students to the science of global climate change and examines public perception and coverage of the topic in various news media outlets, films, and books. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 442. Environmental Ethics and Problems. 3 sem. hrs.
This upper level writing intensive seminar explores the ethical dimensions of ecological relationships, with particular attention to conceptions of nature, justice, and environmental health. We will consider classical ethical concepts, such as utilitarianism and natural law theories, and contemporary environmental approaches, including biocentrism, deep ecology, environmental justice, eco-feminism, and sustainability. This course will be highly interactive, inviting critical thinking about changing ideas about the human place in the natural world. Examining various case studies, we explore the ethical debates surrounding such topics as populations, genetically altered crops, global climate change, biodiversity, and emerging crises in global environmental public health. Readings also address corporate responsibility, science ethics, and public policy. We will consider the ethics of sustainability from the campus to the transnational level. This course meets a college core writing requirement; a demonstration of writing proficiency is required for a passing grade in this course. The course has New College designations for Environment, Sustainability, and Conservation (ESC) and Social Problems and Social Change (SPSC).

NEW 443. Science & Technology. 4 sem. hrs.
The course teaches scientific concepts (time and laws of thermodynamics, change, measurement, reality, etc.) as they relate to the various sciences (anthropology, mathematics, etc.). The relationship of science and technology to the environment of the Earth's surface is stressed.

NEW 446. Gender and Environment. 3 sem. hrs.
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform.

NEW 450. Conservation Field Studies in Belize. 4 sem. hrs.
Study Belize's diverse rainforests, coral reefs, and visit Mayan ruins for a glimpse into a past civilization. Belize is unique in that it still contains relatively undisturbed rainforests and the longest barrier reef in the Western Hemisphere. However, while Belize has emerged as an international leader regarding conservation efforts, threats from climate change, poverty, and development still exist. The purpose of this course is 1) examine current conservation efforts to safeguard this biodiversity; 2) familiarize students with the most important aspects of tropical lowland terrestrial and marine ecosystems; 3) understand the role of local culture in sustainable conservation; 4) gain an understanding of the fundamental importance of biodiversity; and 5) expose students to new and unique cultures and environments. The course is designed for students who are interested in conservation issues, biogeography, marine sciences, ornithology and birding, archaeology, and outdoor adventures! The trip will be divided between a rainforest and a marine field station located next to the barrier reef. So we will have easy access the most diverse environments on the planet.

NEW 472. Social Change. 4 sem. hrs.
This seminar is concerned with the process and analysis of social change. In this seminar, students study the Holocaust, attempting to understand it as an intense and unparalleled human experience. The causes, events, outcomes, and implications are researched through books, films, interviews, tapes, and discussions. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 473. Globalization & Folk Crft Prod. 4 sem. hrs.
This course examines the relationship between the global and the local, using world folk craft (for example, pottery) as a point of focus. The functions of creativity in industrialized and nonindustrialized societies are explored through a combination of reading, research, discussion, and studio experiences. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 474. Survival. 4 sem. hrs.
In this seminar, students study the nature of human and societal survival under extreme conditions. Topics range from issues of a global nature to violent crime, prejudice, and disease. Causes, effects, and possible solutions are all considered. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 490. Special Topics. 3-4 sem. hrs.
The subject matter varies.

NEW 491. Special Topics - Practice. 3-4 sem. hrs.
Subject matter varies. Hands on interdiscplinary learning opportunities.

NEW 495. Capstone Sem & Senior Project. 2 sem. hrs.
14 hours of New College coursework and successful junior year review. New College students only, concluding integrative project.

Department of Philosophy

The study of philosophy fosters original thought, logical precision, an open-minded attitude toward new and unusual ideas, and a commitment to responsible criticism.

The Department of Philosophy offers a major that culminates in the BA degree, and it also offers a minor. Majors and minors have the option of pursuing a Jurisprudence Specialization or Mind-Brain Specialization.

Philosophy Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in philosophy must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in philosophy requires the successful completion of the following 30 semester hours:

		Hours
PHL 195 or	Introduction to Deductive Logic	3
PHL 106	Honors Introduction to Deductive Logic	
PHL 211	Ancient Philosophy	3
PHL 212	Early Modern Philosophy	3
PHL electives 300 or 400 level *		12
PHL electives *		9
Total Hours		30

* A minimum of three hours from each of the following areas must be completed for a total of six hours.

Area 1: Value

PHL 140	Philosophy and the Law	3
PHL 221	Honors Introduction to Ethics	3
PHL 223	Medical Ethics	3
PHL 230	Political Philosophy	3
PHL 231	Social Justice in Practice	1
PHL 234	Social Philosophy	3
PHL 241	Philosophical Issues in Criminal Law	3
PHL 242	Philosophical Issues in Civil Law	3
PHL 243	Philosophical Issues in Constitutional Law	3
PHL 256	Philosophy of Sport	3
PHL 291	Aesthetics	3
PHL 292	Introduction to Ethics	3
PHL 332	Theories of Justice	3
PHL 420	Special Studies in Ethics	3
PHL 440	Seminar on Law	3
PHL 448	Philosophy of Law	3
PHL 455	Philosophy through Documentary	3

Area 2: Language, Epistemology, Mind and Metaphysics

PHL 260	Mind and Nature	3
PHL 264	Introduction to Metaphysics	3
PHL 281	Introduction to Philosophy of Religion	3
PHL 286	Introduction to Philosophy of Science	3
PHL 360	Philosophy of Mind	3
PHL 362	Mind, Language, and Reality	3
PHL 364	Philosophy of Cognitive Science	3

PHL 366	Metaphysics	3
PHL 370	Epistemology	3
PHL 381	Philosophy of Religion	3
PHL 387	Philosophy and Evolution	3
PHL 428	Metaethics	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

The philosophy department honors program is designed for students who wish to pursue a philosophical topic further than the seminar format permits. It also provides recognition for both having done a greater proportion of classes at the advanced level and for sustained outstanding achievement in all courses. Students graduating with honors in philosophy must complete 36 hours in philosophy with 18 hours at the 300- or 400-level and achieve a minimum GPA of 3.5 in all philosophy courses and at least a cumulative GPA of 3.3. A philosophy honors student must also write a senior essay on a philosophical topic and defend it during an oral examination. A student who is enrolled in the University Honors Program can count his/her senior essay in philosophy as completing the honors thesis in that program.

Mind and Brain Specialization

Students majoring in philosophy who are interested in philosophical questions regarding the nature and functioning of the mind, of consciousness and of the brain can choose a sequence of courses in the mind and brain concentration. These students should choose the philosophy electives from the following:

PHL 100 or	Intro To Philosophy	3
PHL 191	Honors Introduction to Philosophy	
PHL 260	Mind and Nature	3
PHL Mind & Brain electives *		12

*The PHL Mind & Brain electives include the following: PHL 360 Philosophy of Mind; PHL 362 Mind, Language, and Reality; PHL 364 Philosophy of Cognitive Science; PHL 366 Metaphysics; PHL 370 Epistemology; and PHL 387 Philosophy and Evolution.

Jurisprudence Specialization

Students majoring in philosophy, who are considering careers in law or politics and who need to enhance preparation for the LSAT, can choose a sequence of courses in the pre-law concentration. These students should choose the philosophy electives from the following:

PHL 140	Philosophy and the Law	3
PHL 195	Introduction to Deductive Logic	3
PHL 230	Political Philosophy	3
PHL 241	Philosophical Issues in Criminal Law	3
PHL 242	Philosophical Issues in Civil Law	3
PHL 243	Philosophical Issues in Constitutional Law	3
PHL 440	Seminar on Law	3
PHL 448	Philosophy of Law	3

Philosophy Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in philosophy requires the successful completion of the following 18 semester hours:

	Hours
PHL electives 300 or 400 level	6
PHL electives	12
Total Hours	18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Professor and Chair

Hestevold, H. Scott

Professors

Alter, Torin

Richards, Richard A.

Associate Professors

Rachels, Stuart

Wrenn, Chase

Assistant Professors

Bordner, S. Seth

Ehrenberg, Kenneth

Nath, Rekha

Professors Emeriti

Max O. Hocutt

Norvin W. Richards

Courses

PHL 100. Intro To Philosophy. 3 sem. hrs.
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge. Offered in the fall and spring semesters.

PHL 104. Critical Thinking. 3 sem. hrs.
Introduction to the concepts and methods used to identify, construct, and assess arguments as they appear in editorials, articles, ordinary speech, etc.

PHL 106. Honors Introduction to Deductive Logic. 3 sem. hrs.
This course examines some of the formal techniques developed by philosophers and mathematicians to distinguish a good argument from a bad one. It is a self-paced course using both computer-aided learning techniques and one-on-one guidance from the instructor and the teaching assistants. The Honors version of Introduction to Deductive Logic expects mastery of more concepts, tools, and techniques of formal deductive logic than the standard version.
Prerequisite(s): MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR PLMA 190 OR ACT 28 OR SAT 690.

PHL 112. Phil. and the Law: Civil Law. 3 sem. hrs.
Explores issues in property law and in tort law, such as the notion of intellectual property and what should count as negligence. Open only to Freshmen.

PHL 140. Philosophy and the Law. 3 sem. hrs.
Philosophy and the Law explores philosophical questions arising in three separate areas: criminal law, constitutional law, and civil law. We will consider theories about what kinds of behavior should be criminal and what (if an anything) morality should have to do with the criminal law. We will also consider what restrictions the constitution ought to place on the state's efforts to enforce the criminal law by searching someone's residence or keeping him under surveillance, and whether those restrictions should differ when the crime is an act of terrorism. Under civil law, we will discuss the concepts of negligence and fraud.

PHL 191. Honors Introduction to Philosophy. 3 sem. hrs.
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge.

PHL 195. Introduction to Deductive Logic. 3 sem. hrs.
This is a course in deductive logic. We will focus on some formal tools for evaluating arguments. To make an argument is to offer reasons to believe some claim. More formally, an argument is a pair of things: a set of sentences, the premises; and a sentence, the conclusion. An argument is valid if it meets the following condition: it is necessary that if all its premises are true, its conclusion is true. In this class, you will learn about how to use two symbolic languages to write arguments, how to construct proofs of conclusions, and how to tell when arguments are not valid.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125.

PHL 201. Ancient Phl. 3 sem. hrs.
History of philosophy from Thales to Aristotle. Offered in the fall semester.

PHL 211. Ancient Philosophy. 3 sem. hrs.
This course will focus on the major themes of ancient Greek philosophy, from the earliest pre-Socratic philosophers, through Plato and Aristotle, to the later Epicureans, Stoics, and Skeptics. We will proceed chronologically and pay special attention to the systematic connections between metaphysics, epistemology, and ethics in each school of thought, as well as the development of later views in light of criticisms of earlier ones. The aim of this course is to provide students a reasonably comprehensive background in the main areas of Western analytic philosophy through an examination of some of the earliest systematic philosophies.

PHL 212. Early Modern Philosophy. 3 sem. hrs.
This course will look at the main figures and intellectual developments of the early Modern period of philosophy. We will proceed chronologically, starting with Descartes's,seminal Meditations on First Philosophy and tracing two very different branches of influence from there to what are often called the Rationalist and Empiricist schools. Other figures,of note will be Locke, Leibniz, Berkeley, Hume, and Kant.

PHL 215. American Philosophy. 3 sem. hrs.
Relatively few courses are offered on American philosophy, in spite of the fact, that the United States has become a worldwide center of philosophy, and is the home of Pragmatism, one of the three major philosophical approaches. This course will be an introduction to American philosophy from the theologian Jonathan Edwards and the political philosophers who had a hand in the founding of America, to classic pragmatists such as Peirce, James and Dewey, and leading 20th century thinkers, such as Quine, Kuhn, Rorty, Putnam and others.

PHL 220. Political Philosophy. 1 or 3 sem. hr.
What are the proper aims of government, and the proper scope of its power? The views of Aristotle, Locke, Mill, and Marx will be explored, as well as the implications for current issues such as civil rights, income redistribution and welfare programs, and the protection of the environment.

PHL 221. Honors Introduction to Ethics. 3 sem. hrs.
This course is designed to give the students a broad introduction to the field of philosophical ethics. The primary aim is to acquaint students with the basic subject matter of ethics as it is studied within philosophy, a few central authorities and positions, and a feel for how philosophers engage with contemporary ethical issues in light of some of the historical influences on the discipline. We will read a variety of texts ranging from historical works on ethics generally to contemporary works focusing on specific moral issues. The hope is that students will develop an understanding and appreciation of how different ethical theories apply to particular cases, and how they might begin to engage in genuine ethical debates. Admission to UA Honors is required.

PHL 223. Medical Ethics. 3 sem. hrs.
This class provides an introduction to the philosophical study of applied ethics by way of a discussion of,topics related to the practice of medical and biological science. Topics of discussion will include abortion, stem cell research, cloning, the allocation of scarce or limited resources, animal experimentation, and patient, autonomy, among others. Along the way, other important topics in moral philosophy will be discussed.

PHL 230. Political Philosophy. 3 sem. hrs.
This course serves as an introduction to central debates in political philosophy. The major questions we explore are the following: How can the coercive authority the government exercises over its citizens be justified? What does justice require in our society today? What role do democracy, freedom, rights, and equality play in our understanding of a just society? Through the study of both historical and contemporary texts, we investigate these topics. We also consider how these issues bear upon debates in the contemporary American context concerning the following: restrictions on free speech, participation in the democratic process, the war on drugs, homelessness, education, and socioeconomic inequality.

PHL 231. Social Justice in Practice. 1 sem. hr.
What does justice require in our society today? With a focus on contemporary social and political issues, we seek to answer this question by looking at different dimensions of justice. We consider how the ideals of democracy, freedom, rights, and equality ought to inform our understanding of a just society. In particular, we focus on how these ideals translate into practice with respect to philosophical debates about immigration, poverty, political participation, and socioeconomic inequality.,In addition to learning about these issues in the class-room, students will develop a deeper understanding of social justice through engagement with a community project. The service-learning component of the course involves regular participation in a community program working with disadvantaged and/or marginalized populations.
Prerequisite(s) with concurrency: PHL 230.

PHL 234. Social Philosophy. 3 sem. hrs.
How should we live together? In this course, we seek to answer this question through moral assessment of the institutional rules and cultural norms that shape our interaction with others and the world around us. We specifically consider issues in the following two categories: I. Markets & consumption. In the modern-day economy, we must grapple with important issues concerning the responsibilities of individual consumers and corporations, what goods may be legitimately bought and sold in a free market, and how economic transactions between nations should be structured to count as fair. II. Violence. One of the features thought to make the state distinctive is that it has a monopoly over the legitimate use of force. Given this power, we will examine the legitimate use of violence by the government. Is the death penalty justified? Is the use of torture permissible under any circumstances? How should it deal with terrorists as opposed to traditional combatants in war?

PHL 236. Intro Philosophy Of Science. 3 sem. hrs.
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 241. Philosophical Issues in Criminal Law. 3 sem. hrs.
Philosophical Issues in Criminal Law explores two general questions: what kinds of behavior should be criminal, and how should we determine what happens to someone who is convicted of a criminal offense. These are pursued with the help of three theorists, John Stuart Mill, Patrick Devlin and David Lyons.,More specific topics include how the criminal law should treat assisting someone who is committing suicide, how "consent" is to be defined where sexual offenses are concerned, and whether judges should hear "victim impact statements."

PHL 242. Philosophical Issues in Civil Law. 3 sem. hrs.
A philosophical exploration of selected topics in tort law. The aim is for you to work toward reasoned positions of your own about the law concerning these issues.

PHL 243. Philosophical Issues in Constitutional Law. 3 sem. hrs.
The government is expected to enforce the criminal law, and to protect us from terrorism. However, the Constitution restricts what the government may do in carrying out these responsibilities. We will be concerned with what those restrictions ought to be, with regard to such matters as searching someone's apartment, questioning someone in public, tapping a phone, conducting physical surveillance of a public place, and eliciting a confession to a crime. We will also think about how, if at all, the restrictions on these should be different when the government is fighting terrorism than when it is fighting crime. We will use the language in the Constitution and in leading legal decisions to help us think about these questions.

PHL 256. Philosophy of Sport. 3 sem. hrs.
This course will examine some of the major themes in the burgeoning field of philosophy of sport, paying special attention to a number of important ethical issues. We will look at the nature of sports (and games more generally), sportsmanship and fairness, the role of officials, gender equity, racism, and issues surrounding the use of performance-enhancing drugs. This course is reading intensive. Prior exposure to philosophy is welcome but not required.

PHL 260. Mind and Nature. 3 sem. hrs.
This course is framed around two questions. First, what is the place of the mind in nature? Second, what is the place of nature in the mind? The first question is a form of mind/problem, which concerns the relationship between mental phenomena such as consciousness and the physical world. The second question is a part of the epistemology, the philosophy of knowledge, and concerns the nature and scope of human knowledge.

PHL 264. Introduction to Metaphysics. 3 sem. hrs.
Topics may include proofs for the existence of God, the nature of reality, free will and determinism, personal identity, and the nature of time.

PHL 281. Introduction to Philosophy of Religion. 3 sem. hrs.
This course is an introduction of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality.

PHL 286. Introduction to Philosophy of Science. 3 sem. hrs.
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 290. Special Topics in Philosophy. 1-3 sem. hr.
This course offers introductory-level study of a special philosophical topic that is not a part of the Department's regular course offerings.

PHL 291. Aesthetics. 3 sem. hrs.
In this course, we will be introduced to some of the most fundamental concerns about art: What is distinctive, if anything, about the experience of artworks? Why do we identify anything as a work of art? How do we, or should we interpret an artwork? On what grounds can we criticize an artwork?

PHL 292. Introduction to Ethics. 3 sem. hrs.
Introduction to competing views of how one ought to live, designed to promote the development of a reasoned view of one's own. May include such topics as ethical relativism, the nature of justice and of rights, and the relationship of law and morality.

PHL 305. Symbolic Logic. 3 sem. hrs.
This course aims to improve students' understanding of the basic concepts of formal logic, particularly the truth-functional and predicate calculi. Students learn convenient methods of formal reasoning, and use them to study some of the basic notions of metalogic. B- or better in PHL 195 or C or better in PHL 106, or Instructor's permission is required.
Prerequisite(s): B- or better in PHL 195 or C or better in PHL 106.

PHL 309. Teaching Practicum. 3 sem. hrs.
This course number is for students who are receiving course credit for working as TAs for philosophy classes. Ordinarily, students working as TAs for classes are responsible for taking roll, proctoring and grading tests, and, most importantly, providing tutorial assistance to the students. Specific duties might vary depending on the needs of the class.

PHL 312. Contemporary Philosophy. 3 sem. hrs.
Philosophy in the 20th century. Topics may include linguistic analysis, logical atomism, logical positivism, ordinary language philosophy, existentialism, and phenomenology.

PHL 332. Theories of Justice. 3 sem. hrs.
Advanced study of prominent theories of prominent historical and contemporary theories of justice (for example, those of Plato, Aristotle, Rawls, or Nozick) and the implication of those theories for political problems such as the distribution of health care, affirmative action, or public goods.

PHL 333. Global Justice. 3 sem. hrs.
In an increasingly globalized world, questions of global justice have risen to prominence in contemporary political philosophy. In this course we examine the following issues. Do the demands of justice transcend state borders? Do we have reason to think that different demands of justice apply at the global level than at the state level? How do increased levels of global interdependence bear upon what we owe to foreigners versus to our fellow citizens? Does the global order harm the world's poor? Are there any universal human rights? If so, how are they justified and who is responsible for upholding them? Drawing on competing contemporary philosophical accounts of justice, we consider different ways of addressing concrete practical issues such as global poverty and inequality, humanitarian intervention, and immigration. You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above. If you do not meet this requirement, you must obtain special permission from the instructor. This 3-credit hour course carries a W designation. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite(s): two PHL classes or instructor's permission.
Prerequisite(s): Two PHL classes or instructor's permission.

PHL 336. History of Philosophy: David Hume. 3 sem. hrs.
This course is an extended investigation into the works of one of the great philosophers in the history of the West, David Hume.

PHL 360. Philosophy of Mind. 3 sem. hrs.
What is the relationship between the mental and the physical? That is the central question in the philosophy of mind, and we will approach it from different angles. We will focus largely on consciousness and its place in nature. Most readings will be from the contemporary literature but some will be historical. This course carries a W designation, and so writing proficiency within the discipline of philosophy is required for a passing grade in this course. Two philosophy courses or instructor's permission. PHL 260 Mind and Nature is recommended but not required.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.

PHL 362. Mind, Language, and Reality. 3 sem. hrs.
This course concerns the nature of meaning and its connection to metaphysics and epistemology. We will study classic works by Gottlob Frege, Bertrand Russell, Saul Kripke, and others. We will also study more recent work in philosophical semantics and its application to arguments in the philosophy of mind. Writing proficiency within this discipline is required for a passing grade in this course. Must have taken Introduction to Deductive Logic (PHL 195 or 106) and one other philosophy course, or have instructor's permission.
Prerequisite(s): PHL 195 OR PHL 106 and one other PHL course.

PHL 364. Philosophy of Cognitive Science. 3 sem. hrs.
This course addresses some core questions in the philosophy of cognitive science. Topics covered are likely to include: the computational theory of mind, the role of mental representations in cognition, the extended mind hypothesis, and mechanisms of mental state attribution. Writing proficiency is required for a passing grade in this course. Need to have taken at least two previous philosophy courses.

PHL 366. Metaphysics. 3 sem. hrs.
Advanced study of such traditional metaphysical problems as personal identity, the mind-body problem, action theory, free will, universals, the nature of space and time, creation, causation, and purpose. Must have taken at least two philosophy courses prior to this course.

PHL 370. Epistemology. 3 sem. hrs.
This course surveys issues in the philosophical study of knowledge. Typical questions addressed include: What is the nature of knowledge? What are the limits of what we can know? When is a belief justified? What can science tell us about the nature of knowledge or rational thought? Must have taken at least two philosophy courses prior to this course. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.

PHL 381. Philosophy of Religion. 3 sem. hrs.
Advanced study of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality. At least two previous philosophy courses required.

PHL 387. Philosophy and Evolution. 3 sem. hrs.
The "Darwinian Revolution" – the acceptance and development of evolutionary theory - is one of the most significant intellectual events in recent human history. It is significant partly because it has changed the way we understand the world, and the processes that operate within it. But it is also significant for the philosophical issues it raises about scientific method, conceptions of human nature, biodiversity, knowledge, ethics and the arts. This course will examine these philosophical issues raised by the Darwinian revolution. Writing proficiency within this discipline is required for a passing grade in this course.

PHL 390. Special Topics in Philosophy. 1-3 sem. hr.
This course offers advanced study of a special philosophical topic or movement that is not a part of the Department's regular course offerings.

PHL 391. History of Philosophy. 3 sem. hrs.
Advanced study of a particular philosopher or philosophical movement or problem in the history of philosophy. Must have taken at least two previous philosophy courses or permission of instructor.

PHL 392. Special Topics in Philosophy (Writing Intensive). 3 sem. hrs.
With an emphasis on philosophical writing, this seminar offers advanced study of a special philosophical topic that is not a part of the Department's regular course offerings. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite: successful completion of at least two PHL courses.
Prerequisite(s): At least two previous philosophy courses required.

PHL 409. Research in Philosophy. 1-3 sem. hr.
This course is an opportunity to do self-directed study and writing in an approved topic.

PHL 420. Special Studies in Ethics. 3 sem. hrs.
Advanced study of current topics in ethics, which could include study of a particular moral theory or moral problem.

PHL 428. Metaethics. 3 sem. hrs.
In this seminar we will explore issues in contemporary metaethics. Metaethics is concerned with the nature of moral properties, what moral claims mean, and how moral knowledge can be justified. In our everyday lives, we make a number of moral judgments—for instance, that we should not lie to a friend or that it is wrong to steal. Can these moral judgments be factually true, or are they just a matter of opinion? How do we come to know what is right or wrong? These are some of the key questions that will be explored in this course.

PHL 440. Seminar on Law. 3 sem. hrs.
The Fifth Amendment says that "No person…shall be compelled in any criminal case to be a witness against himself." What that means depends on what it is to be "a witness against" yourself, and on what it means to compelled to be one rather than being induced in some other way to do so. ,We will pursue what those terms ought to mean, if there is to be a rule of this kind. We will also consider the reasons for having such a rule, whether (in the end) they are good enough to mean we should have one, and whether the rule should apply when the state is fighting terrorism or only when it is fighting ordinary crime.
Prerequisite(s): PHL 292 OR PHL 221 OR PHL 243.

PHL 448. Philosophy of Law. 3 sem. hrs.
This is a seminar on the nature of law and legal systems. Classic positions to be explored include the natural law theory, legal positivism, legal realism, and the theory advanced by Ronald Dworkin. Specific topics to be explored include the idea that there is an obligation to obey the law, what it is for a judge to follow precedent, and whether legal systems should include juries. The course concludes with a negotiation exercise. Please note that writing proficiency within this discipline is required for a passing grade in the course. You must write coherent, logical, and carefully edited prose, and you must argue clearly and well for the positions you take.
Prerequisite(s): PHL 241 or PHL 242 or PHL 243 or PHL 225 or PHL 226 or PHL 227 or PHL 200 or PHL 202.

PHL 455. Philosophy through Documentary. 3 sem. hrs.
This course aims to deepen philosophical understanding primarily through watching and discussing documentary films, supplemented with philosophical readings. The topics covered will vary with the films chosen by the instructor.

PHL 490. Special Topics in Philosophy. 1-3 sem. hr.
This course offers advanced study of a philosophical topic or movement that is not a part of the Department's regular course offerings. At least two previous philosophy courses or permission from instructor required.

Department of Physics and Astronomy

The Department of Physics and Astronomy offers major and minor programs in physics and a minor in astronomy. The Department of Physics and Astronomy also has a second major curriculum for engineering majors.

Physics Major

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in physics must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in physics requires successful completion of 30–41 semester hours in one of four tracks: graduate school, astrophysics, biophysics or physics education.

Graduate School Track

Primarily designed for students considering graduate work in physics, the graduate school track requires the successful completion of the following 36 semester hours:

		Hours
Select one of the following:		4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 101	General Physics I *	
Select one of the following:		4
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
PH 102	General Physics II *	
PH 253 & PH 255	Intro Modern Physics and Modern Physics Lab	4
PH 302	Intermediate Mechanics	3
PH 331	Elect & Magnetism I	3
PH 332	Elect & Magnetism II	3
PH 441	Quant Struct Matter I	3
PH 442	Quant Struct Matter II	3
PH 471	Thermal Physics	3
PH 491	Advanced Laboratory	3
PH or AY elective 300 or 400 level		3
Total Hours		36

* General physics with calculus (PH 105 General Physics W/Calc I and PH 106 Generl Physics W/Calc II, or honors PH 125 and PH 126 Honors Gen Ph W/ Calculus) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the major courses before taking calculus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the graduate school track requires the successful completion of the following courses outside the major:

CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 238	Appld Diff Equations I	3

Astrophysics Track

Primarily designed for students interested in astronomy or space science, the astrophysics track requires the successful completion of the following 41 semester hours:

		Hours
AY 203	Observational Astronomy	2
AY 204	Solar System Astronomy	3
AY 206	Astron Beyond Solar Syst	3
AY elective 300- or 400-level		6
Select one of the following:		4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 101	General Physics I *	
Select one of the following:		4
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
PH 102	General Physics II *	
PH 253 & PH 255	Intro Modern Physics and Modern Physics Lab	4
PH 302	Intermediate Mechanics	3
PH 331	Elect & Magnetism I	3
PH 332	Elect & Magnetism II	3
PH 441	Quant Struct Matter I	3
PH 442	Quant Struct Matter II	3
Total Hours		41

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the astrophysics track requires the successful completion of the following courses outside the major:

CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 238	Appld Diff Equations I	3

Physics Education Track

Primarily designed for students who want to teach in grades K–12, the physics education track requires the successful completion of the following 33 semester hours:

		Hours
Select one of the following:		4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 101	General Physics I *	
Select one of the following:		4
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
PH 102	General Physics II *	
PH 253 & PH 255	Intro Modern Physics and Modern Physics Lab	4
PH 301 or	Mechanics I	3
PH 302	Intermediate Mechanics	
PH 331	Elect & Magnetism I	3
PH 354	Intermediate Modern Physics	3
PH 405	Physics For Science Teachers	3
PH 491	Advanced Laboratory	3
PH elective 300 or 400 level		6
Total Hours		33

* General physics with calculus (PH 105 General Physics W/Calc I and PH 106 Generl Physics W/Calc II, or honors PH 125 and PH 126 Honors Gen Ph W/ Calculus) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the major courses before taking calculus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the physics education track requires the successful completion of the following courses outside the major:

CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 238	Appld Diff Equations I	3

Biophysics Track

Primarily designed for students planning a career in a health profession, the biophysics track requires successful completion of the following 33 semester hours:

		Hours
Select one of the following:		4
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
PH 101	General Physics I *	
Select one of the following:		4
PH 106	Generl Physics W/Calc II *	
PH 126	Honors Gen Ph W/Calculus	
PH 102	General Physics II *	
PH 253 & PH 255	Intro Modern Physics and Modern Physics Lab	4
PH 301 or	Mechanics I	3
PH 302	Intermediate Mechanics	
PH 331	Elect & Magnetism I	3
PH 354	Intermediate Modern Physics	3
PH 411	Biophysics	3
PH 491	Advanced Laboratory	3
PH elective 300 or 400 level		6
Total Hours		33

* General physics with calculus (PH 105 General Physics W/Calc I and PH 106 Generl Physics W/Calc II, or honors PH 125 and PH 126 Honors Gen Ph W/ Calculus) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the major courses before taking calculus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the biophysics track requires the successful completion of the following courses outside the major:

One of the following:		4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
BSC 114 & BSC 118	Principles Of Biology I and Honors General Biology I	
One of the following:		4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	
BSC 116 & BSC 120	Principles Biology II and Honors Gen Biology II	
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232 & CH 237	Elem Organic Chem II and Elem Organic Chem Lab	5
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 238	Appld Diff Equations I	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for all tracks requires the successful completion of 23–39 semester hours of ancillary courses.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics W/Calc I or PH 125 Honors Gen Ph W/Calculus, **AND** PH 102 General Physics II, PH 106 Generl Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.

Special Opportunities

The department sponsors a local chapter of the Society of Physics Students. The department also has an honors program. Students are invited to apply for admission to the honors program in physics on the basis of performance in introductory courses. Physics majors participating in the physics honors program must maintain a minimum 3.3 grade point average in physics courses and a 3.0 cumulative GPA. Honors students must also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member in physics or astronomy and participate in the PH 490 Honors Seminar In Physics. Students can inquire at the Department of Physics and Astronomy office for further information.

Physics Major for College of Engineering Students

The Department of Physics and Astronomy also has a second major curriculum for engineering majors. This combination of fundamental and applied physics can be highly advantageous when the graduate enters the job market. For more information, contact the Department of Physics and Astronomy.

Physics Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in physics requires successful completion of the following 18 semester hours:

		Hours
Select one of the following:		4
PH 101	General Physics I	
PH 105	General Physics W/Calc I	
PH 125	Honors Gen Ph W/Calculus	
Select one of the following:		4
PH 102	General Physics II	
PH 106	Generl Physics W/Calc II	
PH 126	Honors Gen Ph W/Calculus	
PH electives 300 and 400 level		6
PH electives		4
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus in the Department of Physics and Astronomy.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics W/Calc I or PH 125 Honors Gen Ph W/Calculus, **AND** PH 102 General Physics II, PH 106 Generl Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.

Astronomy Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in astronomy requires the successful completion of a minimum of 14 semester hours.

		Hours
AY 203	Observational Astronomy	2
AY 204	Solar System Astronomy	3
AY 206	Astron Beyond Solar Syst	3
AY electives 300 or 400 level and/or one of		6
PH 301	Mechanics I	
PH 302	Intermediate Mechanics	
Total Hours		14

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The minor in astronomy requires the successful completion of the following courses outside the minor:

Select one of the following:		4
PH 105	General Physics W/Calc I *	
PH 125	Honors Gen Ph W/Calculus	
PH 101	General Physics I *	
Select one of the following:		4
PH 106	Generl Physics W/Calc II *	
PH 126	Honors Gen Ph W/Calculus	
PH 102	General Physics II *	
PH 253 & PH 255	Intro Modern Physics and Modern Physics Lab	4

* General physics with calculus (PH 105 General Physics W/Calc I and PH 106 Generl Physics W/Calc II, or honors PH 125 Honors Gen Ph W/Calculus and PH 126 Honors Gen Ph W/Calculus) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the minor courses before taking calculus.

Additional Minor Requirements

Students majoring in physics may not apply the same physics courses toward both the physics major and the astronomy minor. They will still need 14 hours in the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics W/Calc I, or PH 125 Honors Gen Ph W/Calculus, **AND** PH 102 General Physics II, PH 106 Generl Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.

Faculty

Chair and Professor

White, Raymond E. III

Professors

Piepke, Andreas G.

Stancu, Ion

Busenitz, Jerome K.

Buta, Ronald J.

Butler, William H.

Harms, Benjamin C.

Harrell, J.W.

Keel, William C.

Mankey, Gary J.

Schad, Rainer

Sarker, Sanjoy

Stern, Allen B.

Associate Professors

Mryasov, Oleg

LeClair, Patrick

Mewes, Tim

Assistant Professors

Mewes, Claudia

Henderson, Conor

Bailin, Jeremy

Irwin, Jimmy

Rumerio, Paolo

Okada, Nobuchika

Townsley, Dean M.

Williams, Dawn R.

Astronomy (AY) Courses

AY 101. Intro To Astronomy. 3 sem. hrs.
History of astronomy, the solar system, stars, galaxies, and the universe; recent discoveries about pulsars, black holes, and quasars will be discussed. NOTE: If the student plans to apply AY 101 toward satisfaction of the N requirement of the University Core Curriculum, AY 102 must also be taken.

AY 102. Intro Astronomy Lab. 1 sem. hr.
Observation of the sun, moon, and daytime astronomical activity. Indoor exercises include stellar spectra, H-R diagram, celestial sphere, and astronomical photographic analysis. NOTE: If the student plans to apply AY 102 toward satisfaction of the N requirement of the University Core Curriculum, AY 101 must also be taken.
Prerequisite(s) with concurrency: AY 101.

AY 155. Life in the Universe. 3 sem. hrs.
“Life in the Universe” is a survey of the new and rapidly-developing interdisciplinary science of Astrobiology for the non-science major. This science brings the tools of astronomy and biology, as well as geology and chemistry, to attempt to answer questions like: How did life start on the Earth? Did life start elsewhere in our Galaxy? If there is life on other planets, how would we recognize it? Students taking this course will be introduced to the science of Astrobiology, the process of science, scientific thinking, and the fundamentals of astronomical and physical principals used throughout this course. Then students will explore our current state of knowledge and the nature of life on the earth, the geology of the earth as it makes our planet habitable to life, the origin of life on the earth, and the process of evolution. We will then apply this knowledge to the question of whether life currently exists, or could have existed in the past, on other bodies in our solar system including the planets Venus and Mars, the large moons of the planets Jupiter, Saturn and Neptune. We will then probe the effect of the history of our solar system on the habitability of various planets and moons. The final section of the course focuses on the possibilities of life on planets orbiting other stars in our galaxy (and beyond) by summarizing what is known and expected from surveys of planets orbiting other stars, the Search for Extra Terrestrial Intelligence, and the prospects for future interstellar travel.

AY 203. Observational Astronomy. 2 sem. hrs.
Students learn to observe and photograph planets, stars, and galaxies using portable telescopes on campus, the 16-inch telescope of the campus observatory, telescopes located in the darker skies at Moundville, and observatory telescopes in Arizona and Chile by internet control. Both indoor exercises and observing projects are undertaken. Students should normally have completed AY101 or a more advanced astronomy course; people concurrently enrolled in AY101 or AY204 can be admitted with the permission of the instructor NOTE: If the student plans to apply AY 203 toward satisfaction of the N requirement of the University Core Curriculum, AY 204 or AY 206 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 204. Solar System Astronomy. 3 sem. hrs.
This course provides (1) a discussion of orbital mechanics and of the interior structure, surface features, atmosphere, and origin of the sun, planets, and solar system; (2) an understanding of the detection techniques and current census of extrasolar planets; and (3) a discourse on the possibility of life on other planets. NOTE: If the student plans to apply AY 204 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 206. Astron Beyond Solar Syst. 3 sem. hrs.
This course provides (1) an introduction to the physical processes in stars and the evolution of stars that leads to the observed properties of stars; (2) a study of the final endpoints of stellar evolution including the nature and production of white dwarf stars, neutron stars, and black holes; (3) an introduction to the properties of galaxies, galactic dynamics, and star formation in galaxies, and (4) the cosmological model that accounts for the presently observed chemical composition of galaxies and stars, and for the presently observed dynamical structures of the Universe. NOTE: If the student plans to apply AY 206 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 421. Theoretical Astrophysics. 3 sem. hrs.
Introduction to astrophysical processes in stellar atmospheres, stellar structure, stellar evolution, galactic structure, the interstellar medium, active galaxies, and quasars.
Prerequisite(s): PH 253.

AY 433. Astronomical Technique. 3 sem. hrs.
Students will learn to perform astronomical observations with eye, telescope, and modern ,detectors, using techniques of photography, photometry, and spectroscopy. Students will gain familiarity with current software tools for data analysis, model fitting, and error analysis. Students will carry out and report on a complete research project, from concept and data collection to analysis and conclusions. Writing proficiency within this discipline is required for a passing grade in this course.

AY 491. Independent Study I. 1-3 sem. hr.

AY 492. Independent Study II. 1-3 sem. hr.
(refer to AY 491 Independent Study I).

Physics (PH) Courses

PH 101. General Physics I. 4 sem. hrs.
Lecture and laboratory. An introductory course including classical mechanics and thermodynamics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

PH 102. General Physics II. 4 sem. hrs.
Lecture and laboratory. An introductory course including electricity and magnetism, optics, and modern physics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): PH 101 or PH 105 or PH 125.

PH 105. General Physics W/Calc I. 4 sem. hrs.
Lecture and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 125 or MATH 145.

PH 106. Generl Physics W/Calc II. 4 sem. hrs.
Lecture and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): MATH 126 or MATH 146; and PH 101 or PH 105 or PH 125.

PH 111. Intro Physics Seminar. 1 sem. hr.
Lecture series on current topics in Physics. Open to all undergraduates. A broad intro to exciting developments in modern physics at an intro level. Faculty will present recent developments including student suggestions.

PH 115. Des Ph Non-Science Maj. 4 sem. hrs.
Credit earned in this course may not be counted toward fulfillment of the requirements for the major or minor in physics. Credit will not be granted for both PH 101 and PH 115. Three lecture hours and one laboratory period. Demonstration lectures on the chief topics of classical and modern physics. Designed for non-science majors who want an introductory course with no math prerequisites.

PH 125. Honors Gen Ph W/Calculus. 4 sem. hrs.
Lecture, discussion, and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 125 or MATH 145.

PH 126. Honors Gen Ph W/Calculus. 4 sem. hrs.
Lecture, discussion, and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): MATH 126 or MATH 146; and PH 105 or PH 125.

PH 253. Intro Modern Physics. 3 sem. hrs.
Study of topics in modern physics, including special relativity, quantum physics, atomic and nuclear structure, and solid state physics.
Prerequisite(s): MATH 126 or MATH 146; and PH 102 or PH 106 or PH 126.

PH 255. Modern Physics Lab. 1 sem. hr.
Experimental work in the topics that form the subject matter of PH 253.
Prerequisite(s) with concurrency: PH 253.

PH 301. Mechanics I. 3 sem. hrs.
Vector analysis and treatment of Newtonian mechanics at the intermediate level.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 302. Intermediate Mechanics. 3 sem. hrs.
Treatment of Newtonian mechanics at the intermediate level, including central forces, lagrangians, normal modes, and waves. Designed for students planning graduate study in physics or astronomy.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 331. Elect & Magnetism I. 3 sem. hrs.
Electrostatics, Ampere's and Faraday's laws, vector potential, displacement current, and Maxwell's equations.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 332. Elect & Magnetism II. 3 sem. hrs.
Continuation of electricity and magnetism beginning with Maxwell’s equations.
Prerequisite(s): PH 331.

PH 354. Intermediate Modern Physics. 3 sem. hrs.
Continuation of PH 253. Applications of quantum mechanics, including lasers, semiconductors, particle physics, nanoscience, and other current topics.
Prerequisite(s): PH 253.

PH 405. Physics For Science Teachers. 3 sem. hrs.
Selected topics in contemporary physics for high-school and post-secondary science teachers.

PH 411. Biophysics. 3 sem. hrs.
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, bionanotechnology. Emphasis on systems that are best understood in physical and molecular detail.

PH 434. Digital Electronics. 3 sem. hrs.
Two laboratory periods. Theory and practical application of digital integrated circuits, including gates, flip-flops, counters, latches, and displays. Computer data acquisition and control using LabView and A/D and D/A fundamentals.
Prerequisite(s): PH 334.

PH 441. Quant Struct Matter I. 3 sem. hrs.
No graduate credit will be awarded for PH 441. Introduction to quantum mechanics, including solutions to the Schrodinger equation.
Prerequisite(s): PH 253 and PH 331 and PH 301 or PH 302.

PH 442. Quant Struct Matter II. 3 sem. hrs.
No graduate credit will be awarded for PH 442. Continuation of quantum mechanics with applications in atomic, molecular, solid state, and nuclear physics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 441.

PH 461. Nuclear Particle Physics. 3 sem. hrs.
Stable nuclei, isotopes, nuclidic masses, alpha decay, phase space, gamma ray transitions, Yukawa forces, isotopic spin, scattering, resonance behavior, the quark model, heavy flavors, Higgs bosons, and the electroweak theory.
Prerequisite(s): PH 441.

PH 471. Thermal Physics. 3 sem. hrs.
Introduction to thermal phenomena on a macroscopic and a statistical basis, and principles and laws governing them.
Prerequisite(s): MATH 227 or MATH 247 and PH 253.

PH 481. Solid State Physics. 3 sem. hrs.
Phenomenological treatment of mechanical, thermal, electrical, and magnetic properties of matter and fluorescence, phosphorescence, photo-conductivity, and work function; the free-electron model and the band approximation; structures of simple crystals.
Prerequisite(s): PH 441.

PH 482. Topics Physics & Astronomy. 1-3 sem. hr.
Topics in physics and astronomy not covered by existing courses. Repeat credit is allowed for different topics.

PH 490. Honors Seminar In Physics. 1 sem. hr.
A seminar course on current topics in physics and astronomy.

PH 491. Advanced Laboratory. 3 sem. hrs.
Two laboratory periods and 1 hour of seminar. Experimental work in modern physics at an advanced level. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 255.

PH 493. Intro To Research. 1-3 sem. hr.
Credit is by arrangement, but no graduate credit will be awarded for PH 493. Student performs research under supervision of a faculty member.

PH 495. Independent Study I. 1-3 sem. hr.

PH 496. Independent Study II. 1-3 sem. hr.

Department of Political Science

The Department of Political Science offers two majors, one in political science and another in international studies, both of which culminate in the BA degree. Minors in both fields are also offered. Also, oversight of the public policy minor resides in the Department of Political Science.

Political Science Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in political science must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in political science requires the successful completion of the following 30 semester hours:

		Hours
PSC 101	Intro American Politics	3
Select two of the following:		6
PSC 201	Scope Political Science	
PSC 202	Politcl Science Methods	
PSC 203	Comparative Politics	
PSC 204	International Relations	
PSC 205	Political Theory	
PSC 206	Public Administration	
PSC field requirement *		9
PSC electives		12
Total Hours		30

* Fields: Students must earn a minimum of 3 hours in three of the fields listed below for a total of 9 hours.

Field 1: American Government

PSC 102	America & The World	3
PSC 103	Intro Public Policy	3
PSC 211	State & Local Govt	3
PSC 311	Pol Party & Elections	3
PSC 312	Amer Legislative Syst	3
PSC 313	The American Executive	3
PSC 314	Amer Judicial System	3
PSC 316	Southern Politics	3
PSC 318	Constitn Law Limits Gov Power	3
PSC 319	Con Law Civ Rts and Libs	3
PSC 364	African Amer & Polit Sys	3
PSC 411	Public Opinion	3
PSC 413	Amer Foreign Policy	3

Field 2: Comparative Politics

PSC 203	Comparative Politics	3
PSC 332	Lat Am Political Syst	3
PSC 333	Soviet Post Sov Politics	3
PSC 334	Government Politics West Europ	3
PSC 335	Soc Movements & Cont Politics	3
PSC 433	Communism Europe 1945-89	3
PSC 436	Non-Communst East Europe	3
PSC 437	Post Communism	3
PSC 438	Govt and Politics of S. Asia	3
PSC 443	Comparative Pub Policy	3

Field 3: Political Theory

PSC 205	Political Theory	3
PSC 353	Modern Political Thought	3
PSC 362	Organization Theory	3
PSC 452	American Political Thought	3

Field 4: Public Administration

PSC 206	Public Administration	3
PSC 211	State & Local Govt	3
PSC 361	Fiscal Policy & Budget	3
PSC 362	Organization Theory	3
PSC 462	Public Personnel Admin	3

Field 5: International Relations

PSC 204	International Relations	3
PSC 342	For Pol Sov Un Suc State	3
PSC 343	US Relations with Latin Amer	3
PSC 413	Amer Foreign Policy	3
PSC 434	Internatl Polit Econom	3
PSC 435	War And Peace	3
PSC 441	Terrorism	3
PSC 442	Internatl Conflict	3
PSC 444	International Organizations	3
PSC 446	Political Economy of Security	3
PSC 448	Human Rights & Institutions	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The major in political science does not require ancillary courses. However, it is recommended that students considering graduate school study a modern foreign language.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Specific sections of topics courses (PSC 320 Special Studies In Psc, PSC 321 Special Topics In Psc and PSC 422 Seminar Political Science) may be appropriate to fulfill the field requirements. Students should contact the department's undergraduate director concerning this use of special topics courses. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for enrollment in 300-level political science courses is sophomore standing or permission of the instructor, and the prerequisite for 400-level political science courses is junior standing or higher or permission of the instructor.

Special Opportunities

The department sponsors the Gamma Omicron chapter of Pi Sigma Alpha, the National Political Science Honor Society. The department also offers internship opportunities in state government and politics in Montgomery, Ala., and in national government and politics in Washington, D.C.

International Studies Major (BA)

318 ten Hoor Hall

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in international studies must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in international studies requires the successful completion of the following 36 semester hours:

		Hours
ANT 102	Intro Cultural Anthropology	3
EC 111	Principles of Macroeconomics	3

GY 105	World Regional Geography	3
HY 102 or	Western Civ Since 1648	3
HY 106	Honors West Civ Sc 1648	
PSC 204	International Relations	3
Field requirement 300 or 400 level [1]		6
Field requirement [1]		6
Concentration requirement 300 or 400 level [2]		3
Concentration requirement [2]		6
Total Hours		36

[1] Fields: Students must earn a minimum of 12 hours chosen from one of the following fields. Other courses can sometimes be approved by International Studies advisers during advising periods on a course-by-course basis. A maximum of 6 hours can be in a single department. A minimum of 6 hours must be at the 300- or 400-level. PSC 321 Special Topics In Psc and PSC 422 Seminar Political Science can be used to satisfy field requirements provided the topic relates to the specific field and the program director approves.

Field 1: International Relations

ANT 210	Language And Culture	3
ANT 275	Race, Ethnicity Human, and Variation	3
ANT 311	Population, Health & Human Origin	3
ANT 402	Gender Ethnicity & Health	3
ANT 418	Dev Non-West Cultures	3
ANT 436	Social Structure	3
ANT 440	Culture	3
CIP 200	Introduction To Global Studies	3
GY 155	Freshman Seminar	3
GY 377	Cultural Geography	3
GY 453	Environment & Society	3
HY 326	Us-World Power Sc 1898	3
HY 481	War/Dipl. in Med & Mod. Eur	3
HY 482	War & Religion in the West	3
IHP 105	Culture & Human Experience	3
IHP 155	Culture and the Human Experience	3
PSC 203	Comparative Politics	3
PSC 413	Amer Foreign Policy	3
PSC 433	Communism Europe 1945-89	3
PSC 434	Internatl Polit Econom	3
PSC 441	Terrorism	3
PSC 442	Internatl Conflict	3
PSC 443	Comparative Pub Policy	3
PSC 444	International Organizations	3
PSC 446	Political Economy of Security	3
PSC 448	Human Rights & Institutions	3

Field 2: International Business

EC 430	International Trade	3
EC 431	International Finance	3
EC 450	History of Economic Concepts	3
EC 453	Comparative Economic Systems	3
FI 431	International Finance	3
IBA 350	Intro World Business	3
IBA 351	Multinatl Business Communctn	3
IBA 455	Global Marketing	3
IBA 460	Export/Import Management	3
MKT 460	Export/Import Management	3

Field 3: Peace and Conflict Studies

HY 341	Hy Us - Vietnam War	3
HY 357	World War I	3
HY 358	World War II	3
HY 413	Mexican War Thru Civil War	3
HY 480	Survey Of Military History	3
HY 481	War/Dipl. in Med & Mod. Eur	3
HY 482	War & Religion in the West	3
EC 444	Political Economy of Terrorism	3
PSC 435	War And Peace	3
PSC 441	Terrorism	3
PSC 442	Internatl Conflict	3
PSC 446	Political Economy of Security	3

[2] Concentrations: Students must earn a minimum of 9 hours chosen from one of the following areas (or methods specialization for peace and conflict studies). Other courses can sometimes be approved by International Studies advisers during advising periods on a course-by-course basis. A maximum of 6 hours can be in a single department. A minimum of 3 hours must be at the 300 or 400 level. PSC 321 Special Topics In Psc and PSC 422 Seminar Political Science can be used to satisfy concentration requirements provided the topic relates to the specific field and the program director approves.

Concentration 1: Asia

ANT 417	Peoples Of South Asia	3
HY 243	History of Asia to 1400	3
HY 244	History of Asia Since 1400	3
HY 306	Hy Of Oriental Thought	3
HY 402	Modern Japan Since 1550	3
HY 403	Chinese Civiliz To 1600	3
HY 404	Modern China Since 1600	3
REL 220	Survey Of Asian Religion	3
Language minor: Chinese or Japanese.		

Concentration 2: Latin America

ANT 408	Ancient Mexican Civilization	3
ANT 409	Ancient Maya Civilization	3
ANT 413	Peoples Of Latin Amer	3
EC 442	Economic Development of Latin America	3
HY 237	Colonial Latin America	3
HY 238	Modern Lat Am Sc 1808	3
HY 474	Relation Us Latin Amer	3
HY 475	Caribbean Basin 1492 - Present	3
PSC 332	Lat Am Political Syst	3
Language minor: Spanish.		

Concentration 3: Middle East and Africa

ANT 414	Peoples Of Africa	3
CL 384	Ancient Egypt Near East	3
GY 444	Field Studies In Africa	6
HY 384	Ancient Egypt Near East	3
REL 224	Judaism	3
Language minor: French or student-designed minor in Arabic language and culture		

Concentration 4: Russia and Eastern Europe

HY 361	Russia To 1894	3
HY 362	Russia-Soviet Union Since 1894	3
PSC 333	Soviet Post Sov Politics	3
PSC 342	For Pol Sov Un Suc State	3
PSC 433	Communism Europe 1945-89	3
PSC 436	Non-Communst East Europe	3
RUS 211	Study Tour Russia	3
RUS 252	Russian Folklore	3
Language minor: Russian.		

Concentration 5: Western Europe

ANT 412	Peoples Of Europe	3

CL 385	History Of Greece	3
CL 386	History Of Rome	3
GN 260	Holocaust In Film & Lit	3
HY 247	England To 1688	3
HY 321	Religion In Modern Europe	3
HY 349	History of France 1760-present	3
HY 357	World War I	3
HY 358	World War II	3
HY 365	European Consumer Society	3
HY 385	History Of Greece	3
HY 386	History Of Rome	3
HY 393	British Emp & Commonwealth	3
HY 442	The Middle Ages	3
HY 443	Renaissance	3
HY 444	Reform & Counter-Reformation	3
HY 446	Age Of Reason 1715-89	3
HY 447	French Revln & Napoleon	3
HY 451	Early Modern Germany	3
HY 490	England Under Tudors	3
HY 491	England Under Stuarts	3
HY 493	Britain In 18th Century	3
HY 494	Britain In The Victorian Age	3
PSC 334	Government Politics West Europ	3

Language minor: French, German, Italian, or Spanish.

Concentration 6: Methods Specialization (peace and conflict studies only)

EC 471	Econometrics	3
HY 430	UG Research Seminar	3
PSC 202	Politcl Science Methods	3
ST 260	Statistical Data Analysis	3
ST 450	Stat Methods In Res I	3
ST 451	Stat Methods In Res II	3

Language minor: Any foreign language minor.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses. However, courses in the field and area requirements may have prerequisites.

Required Minor

Students must minor in a foreign language that is spoken in the area of the world chosen from the area requirement. A minor in any language will meet this requirement for the peace and conflict studies field.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

Students are encouraged to study abroad while fulfilling the requirements of the international studies program. For more information, contact the Capstone International Center.

Political Science Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in political science requires the successful completion of the following 18 semester hours:

		Hours
PSC 101	Intro American Politics	3
Select one of the following:		3
PSC 201	Scope Political Science	
PSC 202	Politcl Science Methods	
PSC 203	Comparative Politics	
PSC 204	International Relations	
PSC 205	Political Theory	
PSC 206	Public Administration	
PSC field requirement *		6
PSC electives		6
Total Hours		18

* Fields: Students must earn a minimum of 3 hours in three of the fields listed below for a total of 9 hours.

Field 1: American Government

PSC 102	America & The World	3
PSC 103	Intro Public Policy	3
PSC 211	State & Local Govt	3
PSC 311	Pol Party & Elections	3
PSC 312	Amer Legislative Syst	3
PSC 313	The American Executive	3
PSC 314	Amer Judicial System	3
PSC 316	Southern Politics	3
PSC 318	Constitn Law Limits Gov Power	3
PSC 319	Con Law Civ Rts and Libs	3
PSC 364	African Amer & Polit Sys	3
PSC 411	Public Opinion	3
PSC 413	Amer Foreign Policy	3

Field 2: Comparative Politics

PSC 203	Comparative Politics	3
PSC 332	Lat Am Political Syst	3
PSC 333	Soviet Post Sov Politics	3
PSC 334	Government Politics West Europ	3
PSC 335	Soc Movements & Cont Politics	3
PSC 433	Communism Europe 1945-89	3
PSC 436	Non-Communst East Europe	3
PSC 437	Post Communism	3
PSC 438	Govt and Politics of S. Asia	3
PSC 443	Comparative Pub Policy	3

Field 3: Political Theory

PSC 205	Political Theory	3
PSC 353	Modern Political Thought	3
PSC 362	Organization Theory	3
PSC 452	American Political Thought	3

Field 4: Public Administration

PSC 206	Public Administration	3
PSC 211	State & Local Govt	3
PSC 361	Fiscal Policy & Budget	3

PSC 362	Organization Theory	3
PSC 462	Public Personnel Admin	3

Field 5: International Relations

PSC 204	International Relations	3
PSC 342	For Pol Sov Un Suc State	3
PSC 343	US Relations with Latin Amer	3
PSC 413	Amer Foreign Policy	3
PSC 434	Internatl Polit Econom	3
PSC 435	War And Peace	3
PSC 441	Terrorism	3
PSC 442	Internatl Conflict	3
PSC 444	International Organizations	3
PSC 446	Political Economy of Security	3

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Specific sections of topics courses (PSC 320 Special Studies In Psc, PSC 321 Special Topics In Psc and PSC 422 Seminar Political Science) may be appropriate to fulfill the field requirements. Students should contact the department's undergraduate director concerning this use of special topics courses. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for enrollment in 300-level political science courses is sophomore standing or permission of the instructor, and the prerequisite for 400-level political science courses is junior standing or higher or permission of the instructor.

International Studies Minor

318 ten Hoor Hall
internationalstudies@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in international studies requires the successful completion of the following 18 semester hours:

		Hours
Select two of the following:		6
ANT 102	Intro Cultural Anthropology	
EC 111	Principles of Macroeconomics	
GY 105	World Regional Geography	
HY 102 or	Western Civ Since 1648	
HY 106	Honors West Civ Sc 1648	
PSC 204	International Relations	
Field requirement 300 or 400 level *		6
Field requirement *		6
Total Hours		18

* Fields: Students must earn a minimum of 12 hours chosen from one of the following fields. Other courses can sometimes be approved by International Studies advisers on a course-by-course basis.

Field 1: International Relations

ANT 210	Language And Culture	3
ANT 275	Race, Ethnicity Human, and Variation	3
ANT 311	Population, Health & Human Origin	3
ANT 402	Gender Ethnicity & Health	3
ANT 418	Dev Non-West Cultures	3
ANT 436	Social Structure	3
ANT 440	Culture	3
CIP 200	Introduction To Global Studies	3
GY 155	Freshman Seminar	3
GY 377	Cultural Geography	3
GY 453	Environment & Society	3
HY 326	Us-World Power Sc 1898	3
HY 481	War/Dipl. in Med & Mod. Eur	3
HY 482	War & Religion in the West	3
IHP 105	Culture & Human Experience	3
IHP 155	Culture and the Human Experience	3
PSC 203	Comparative Politics	3
PSC 413	Amer Foreign Policy	3
PSC 433	Communism Europe 1945-89	3
PSC 434	Internatl Polit Econom	3
PSC 441	Terrorism	3
PSC 442	Internatl Conflict	3
PSC 443	Comparative Pub Policy	3
PSC 444	International Organizations	3
PSC 446	Political Economy of Security	3

Field 2: International Business

EC 430	International Trade	3
EC 431	International Finance	3
EC 450	History of Economic Concepts	3
EC 453	Comparative Economic Systems	3
FI 431	International Finance	3
IBA 350	Intro World Business	3
IBA 351	Multinatl Business Communctn	3
IBA 455	Global Marketing	3
IBA 460	Export/Import Management	3
MKT 460	Export/Import Management	3

Field 3: Peace and Conflict Studies

HY 341	Hy Us - Vietnam War	3
HY 357	World War I	3
HY 358	World War II	3
HY 413	Mexican War Thru Civil War	3
HY 480	Survey Of Military History	3
HY 481	War/Dipl. in Med & Mod. Eur	3
HY 482	War & Religion in the West	3
EC 444	Political Economy of Terrorism	3
PSC 435	War And Peace	3
PSC 441	Terrorism	3
PSC 442	Internatl Conflict	3
PSC 446	Political Economy of Security	3

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. If necessary, students may consult with the minor department academic adviser for questions concerning minor requirements.

Public Policy Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in public policy requires the successful completion of the following 18 semester hours:

Public Policy Studies

		Hours
Select 1 course from the following:		3
PSC 103	Intro Public Policy	
PSC 321	Special Topics In Psc (*) Special topics in an approved public policy area	

Political Context of Public Policy

		Hours
Select 1 course from the following:		3
PSC 101	Intro American Politics	
PSC 211	State & Local Govt	
PSC 312	Amer Legislative Syst	
PSC 361	Fiscal Policy & Budget	
PSC 443	Comparative Pub Policy	

Economic Analysis

		Hours
Select 1 from the following:		3
EC 110	Principles of Microeconomics	
EC 210	Microeconomic Policy Analysis	
EC 211	Macroeconomic Policy Analysis	
EC 308	Intermediate Microeconomics	

Research Methods or Data Analysis

		Hours
Select 1 from the following courses:		3
CJ 380	Research Methods	
MKT 473	Marketing Research	
PSC 202	Politcl Science Methods	
SW 420	Research Social Work Practice	
BER 345	Educational Statistics	
CHS 425	Biostatistics	
CJ 381	Statistics	
EC 471	Econometrics	
GES 255	Engineering Statistics I	
ST 260	Statistical Data Analysis	
GY 430	Intro Geographic Info Systems	

Public Policy Courses

		Hours
Select 2 or 3 from the following courses:		6-9
Economic Policy		
EC 211	Macroeconomic Policy Analysis	
EC 410	Law And Economics	
EC 413	Economic Forecast & Analysis	
EC 430	International Trade	
EC 444	Political Economy of Terrorism	
EC 480	Econ Of Environment	
EC 423	Public Finance	
EC 453	Comparative Economic Systems	
EC 482	Seminar On Econ Issues	
EC 483	Health Care Economics	
Environmental Policy		
GEO 105	Sustainable Earth	
GY 105	World Regional Geography	
GY 409	Forest History and Restoration	
GY 452	Environ Decision Making	
GY 453	Environment & Society	
GY 460	Environmental Management	
GY 461	Social Impact Assessment	
MS 433	Coastal Zone Management	
SOC 444	Environmental Sociology	
SW 419	Intl. Social Development	
Foreign Policy		
PSC 102	America & The World	
PSC 321	Special Topics In Psc (* Transnational Politics or International Institutions)	
PSC 342	For Pol Sov Un Suc State	
PSC 343	US Relations with Latin Amer	
PSC 413	Amer Foreign Policy	
PSC 434	Internatl Polit Econom	
PSC 444	International Organizations	
PSC 422	Seminar Political Science	
HY 326	Us-World Power Sc 1898	
HY 474	Relation Us Latin Amer	
Health Care Policy		
ANT 311	Population, Health & Human Origin	
ANT 402	Gender Ethnicity & Health	
ANT 411	Culture Health & Healing	
CHS 330	Intro Clinical Medicine	
CHS 400	Rural Envir/Occup Health	
CHS 420	Basic Epidemiology	
CHS 427	Health Policy & Planning	
CJ 404	Health and Crime	
FI 444	Life & Health Insurance	
HCM 370	Intro Health Systems	
HCM 473	Survey Issues Health Care Mgt	
LGS 472	Legal Aspect Hlth Care	
PHL 332	Theories of Justice	
National Security Policy		
PSC 435	War And Peace	
PSC 441	Terrorism	
PSC 442	Internatl Conflict	
PSC 446	Political Economy of Security	
AMS 445	The "Good War"	
HY 480	Survey Of Military History	
HY 482	War & Religion in the West	
Social Welfare Policy & Services		
SW 200	History Social Welfare in US	
SW 401	Soc Wel Policy & Service	
SW 206	Growing Old In America	
SW 208	Juv Delinq:Causes/Control/Serv	
SW 210	Family & Child Welfare	
SW 351	Oppression & Soc Injustice	
SW 442	Sw Pract W/Communities	
Trade Policy		
EC 416	Monetary Theory & Policy	
FI 416	Monetary Theory & Policy	
MC 444	Lobbying	
LGS 402	Government & Business	
Urban Policy		
GY 200	Principles Of Planning	
GY 365	Industrial Develop & Location	
GY 440	Commun Facil Planning	

GY 441	Land Use Regulations
GY 458	Urban Planning And Analysis
GY 465	Region Planning Analysis
GY 466	Region Urban Transport Systems
GY 488	Planning & Government

Independent Study (Optional)

	Hours
Independent project under the direction of a faculty member, as approved by the minor advisor.	3-6

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

The public policy studies minor requires a minimum of 18 hours. Students must take 3 hours from each of the following four areas for a total of 12 hours: 1) Introduction to Public Policy, 2) The Political Context of Public Policy, 3) Economic Analysis and 4) Research Methods or Data Analysis. The remaining 6 hours may be completed by taking courses in public policy or independent study sections as outlined above.

Prerequisites

Public policy studies is an interdisciplinary minor, which pulls courses from various academic departments on campus. The prerequisite rules outlined in the course descriptions of courses apply to all those included in the minor curriculum.

Faculty

Chair and Professor

Fording, Richard C.

Professors

Baldwin, J. Norman

Borrelli, Stephen A.

Cassel, Carol A.

Chotiner, Barbara Ann

DeRouen, Karl, Jr.

Gibler, Douglas M.

Associate Professors

McKnight, Utz Lars

Miller, Ted H.

Royed, Terry J.

Smith, Joseph L.

Assistant Professors

Choi, Naomi

Cutrone, Ellen A.

Lahiri, Simanti

Levine, Daniel J.

Park, Hong Min

Patton, Dana J.

Ritter, Emily Hencken

Williamson, Anne R.

Professors Emeriti

Alsikafi, Majeed

Cotter, Patrick R.

Kline, Harvey F.

Oneal, John R.

Pilegge, Joseph C.

Snow, Donald M.

Staub, Stephen A.

Stewart, William H.

Courses

PSC 101. Intro American Politics. 3 sem. hrs.
Survey of the principles, political institutions, and practices of American national, state, and local politics.

PSC 102. America & The World. 3 sem. hrs.
Examination of the political factors external to the United States that affect the American political system. Attention is given to the nature of foreign policy, the processes and substance of American foreign policy, and the ways that actions by foreign governments affect the United States.

PSC 103. Intro Public Policy. 3 sem. hrs.
Survey of problems encountered by American governmental units in fields such as agriculture, welfare, education, health, and business regulation.

PSC 201. Scope Political Science. 3 sem. hrs.
Survey of the political processes and institutions of contemporary societies and an introduction to the concepts and concerns of political research.

PSC 202. Politcl Science Methods. 3 sem. hrs.
Introduction to the conduct of political inquiry and methods of political research.

PSC 203. Comparative Politics. 3 sem. hrs.
Theoretical approaches to the comparative study of national political systems.

PSC 204. International Relations. 3 sem. hrs.
Survey of the evolution of the modern state system and the basic forces in international relations.

PSC 205. Political Theory. 3 sem. hrs.
Survey of fundamental concepts in political theory such as liberty, equality, and authority.

PSC 206. Public Administration. 3 sem. hrs.
Study of the administrative principles and practices in the areas of organization, personnel management, budgeting, government regulation, and democratic controls.

PSC 211. State & Local Govt. 3 sem. hrs.
Study of the institutions and functions of American state and local governments and their relationship to the political process.

PSC 311. Pol Party & Elections. 3 sem. hrs.
Activities of parties and pressure groups in American politics. Attention is given to the social composition, organization, finance, and nominating processes of parties.

PSC 312. Amer Legislative Syst. 3 sem. hrs.
Examination of the constitutional and theoretical foundations of Congress and state legislatures, emphasizing problems of structure, procedure, leadership, and legislative reform.

PSC 313. The American Executive. 3 sem. hrs.
Examination of the role of the president, governors, and local executives in the American political system.

PSC 314. Amer Judicial System. 3 sem. hrs.
Introductory analysis of judicial organization, processes, and behavior, with emphasis on the institutional characteristics of the courts.

PSC 316. Southern Politics. 3 sem. hrs.
Examination of the party system of the Southern states in terms of its origin, nature, distribution of power, and impact on national politics.

PSC 318. Constitn Law Limits Gov Power. 3 sem. hrs.
Study of the constitutional foundations of federalism and the separation of powers, with emphasis on the role of the Supreme Court.
Prerequisite(s): PSC 101.

PSC 319. Con Law Civ Rts and Libs. 3 sem. hrs.
Study of the Constitution's protections for civil rights and civil liberties, and the Supreme Court's interpretations of them.

PSC 320. Special Studies In Psc. 1-3 sem. hr.
Supervised independent reading and research.

PSC 321. Special Topics In Psc. 3 sem. hrs.
Course content varies from offering to offering. May be repeated for a maximum of 12 hours, with permission of the department.

PSC 330. Democratization. 3 sem. hrs.
Examination of democratization processes and outcomes in different areas of the world, as well as success and failure in institutionalizing fully democratic systems.
Prerequisite(s): Sophomore standing or permission of the instructor.

PSC 332. Lat Am Political Syst. 3 sem. hrs.
Analysis of the contemporary distribution of political power in Latin America. Special attention is given to nation-state building, praetorianism, and revolution.

PSC 333. Soviet Post Sov Politics. 3 sem. hrs.
Study of institutions and processes in the USSR and the post-Soviet republics, with attention to concepts of authoritarianism, systemic change, and democratization.

PSC 334. Government Politics West Europ. 3 sem. hrs.
Analysis of the democracies of Western Europe. Attention is given to participation, societal cleavages, elections, parties, government institutions, policy making, and the European Union.

PSC 335. Soc Movements & Cont Politics. 3 sem. hrs.
Examination of social movements. Particular attention will be paid to the impact of movements on political processes.

PSC 342. For Pol Sov Un Suc State. 3 sem. hrs.
Examination of the influence of the Soviet Union in the evolution of the international system as well as the interests and strategies of Russia and other successor states.

PSC 343. US Relations with Latin Amer. 3 sem. hrs.
U.S. relations with Latin America since the end of the Cold War-democracy, drug trade, and immigration.

PSC 353. Modern Political Thought. 3 sem. hrs.
Key political theorists from the sixteenth to the nineteenth centuries. Assigned texts may vary, but typically include works by Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx, and Nietzsche. Topics include conceptions of a just society, the state, the value of political participation, liberty, and equality.

PSC 361. Fiscal Policy & Budget. 3 sem. hrs.
Study of governmental revenue and expenditure policies with emphasis on the budget as a method of administrative and fiscal control.

PSC 362. Organization Theory. 3 sem. hrs.
An examination of traditional and contemporary organizational theory and its application to public administration.

PSC 364. African Amer & Polit Sys. 3 sem. hrs.
A historical and contemporary assessment of the political, social and economic development of African-Americans in the American political system.

PSC 399. Internship In Psc. 3-6 sem. hrs.

PSC 411. Public Opinion. 3 sem. hrs.
The formation, distribution, structure, properties, and techniques of measuring public opinions in the United States.

PSC 413. Amer Foreign Policy. 3 sem. hrs.
Examination of the forces and processes affecting United States foreign relations. Attention is also given to the content and problems of contemporary American foreign policy.

PSC 422. Seminar Political Science. 3 sem. hrs.
May be repeated for a maximum of 6 hours. Selected problems in various areas in political science. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 433. Communism Europe 1945-89. 3 sem. hrs.
Examination of the interaction of Marxist theory and practice in various national settings. Attention is given to the differential evolution of parties and regimes and to reasons for the dissolution of communist systems.

PSC 434. Internatl Polit Econom. 3 sem. hrs.
The course deals with the international trade and finance regimes, foreign economic policy, transnational corporations in the world economy, North/South and East/West relations, and the implications of economic interdependence.

PSC 435. War And Peace. 3 sem. hrs.
Study of the causes of war at the individual, societal and international levels of analysis with particular emphasis on international relations research using the scientific method.
Prerequisite(s): PSC 204 or PSC 413.

PSC 436. Non-Communst East Europe. 3 sem. hrs.
An examination of the political issues, processes, and institutions, primarily in the formerly communist states of East-Central Europe.

PSC 437. Post Communism. 3 sem. hrs.
Examination of processes of democratization and reversion to authoritarianism in East Central Europe and Eurasia. Political, social, and economic alterations of communist arrangements are discussed. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 438. Govt and Politics of S. Asia. 3 sem. hrs.
Examination of South Asian states. Attention is given to the legacies of colonialism, political institutions, democratization, economic development, political conflict and regional security.
Prerequisite(s): PSC 203.

PSC 441. Terrorism. 3 sem. hrs.
Explores the definition and dynamics of domestic and international terrorism, terrorist ideas and terrorist organization, and the political problems of suppressing terrorism.

PSC 442. Internatl Conflict. 3 sem. hrs.
Examination of the various kinds of violent conflicts in which nation-states become involved.

PSC 443. Comparative Pub Policy. 3 sem. hrs.
Analysis of domestic policy in advanced industrialized democracies, looking at both policy process and policy substance. Attention will be given to the questions of how and why policies differ across countries, and how one might evaluate policy performance cross-nationally. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 444. International Organizations. 3 sem. hrs.
An examination of the essential structures and processes in international organizations, both governmental and nongovernmental, and their roles in the area of global security, economy, and social welfare. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 446. Political Economy of Security. 3 sem. hrs.
The course will cover a variety of topics that link security and political economy. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PSC 204.

PSC 448. Human Rights & Institutions. 3 sem. hrs.
This class examines how domestic and international institutions create incentives or constraints leading to human rights violations or protections from a social science perspective.

PSC 452. American Political Thought. 3 sem. hrs.
Investigates primary sources and secondary literature covering the origin and direction of the U.S. political ideology. Topics typically include liberalism, civic republicanism, and debates between contemporary scholars concerning American exceptionalism.
Prerequisite(s): PSC 205.

PSC 455. Political Traditions and Dilemmas. 3 sem. hrs.
This course is a sustained examination of the history of political thought in the western tradition coupled with philosophical investigation into contemporary issues.

PSC 462. Public Personnel Admin. 3 sem. hrs.
Study of the American public personnel system at the local, state, and national level. Emphasis is on such areas as the political activity of government employees, the application of the principle of equal opportunity and affirmative action, and the role of collective bargaining in government.

PSC 464. The Politics of Health Policy. 3 sem. hrs.
We examine health policy at all levels of government, with particular focus on the interdependence of the national, state, and local governments to provide health services. The political environment of health policymaking and implementation is explored. Health policies such as Medicaid, Medicare, and the Affordable Care Act will be examined, as well as other policies that impact health. We examine the policymaking process in general, applying health policy to the concepts and theories. We compare the US health care system with systems in other industrialized democracies.
Prerequisite(s): Approval of academic advisor and at least junior status.

Department of Psychology

The Department of Psychology offers an undergraduate major culminating in both a bachelor of arts (BA) degree and bachelor of science (BS) degree. The department also offers a minor in psychology.

Psychology Major (BA)

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in psychology must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in psychology requires the successful completion of the following 32 semester hours:

		Hours
PY 101	Intro To Psychology	3
PY 211	Elem Statistical Methods	3
PY 355	General Experimental Psychology	3
PY 356	Research Laboratory	2
PY area requirement *		9
PY 471	History Systems In Py	3
Choose one seminar sequence:		6
PY 491	Seminar In Psychology (two semesters)	
PY 379 & PY 491	Junior Honors Seminar and Seminar In Psychology	
PY elective 300 or 400 level		3
Total Hours		32

* Area requirements: Students must complete courses from three of the following content areas for a total of nine hours. At least one course must be at the 400 level.

Developmental

PY 352	Developmental Psych	3
PY 365	Psychology Of Aging	3
PY 461	Child Psychology	3

Learning/Cognition

PY 361	Psychology Of Learning	3
PY 470	Intro Cognitive Psychlgy	3

Social/Personality

PY 358	Abnormal Psychology	3
PY 368	Intro To Personality	3
PY 372	Social Psychology	3

Biologically Based

PY 313	Sensation and Perception	3
PY 413	Physiological Psych	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in psychology requires the successful completion of the following courses outside the major:

Choose 8 hours from the following:		8
BSC 108	Intro Biology Non Maj I	
BSC 109	Intro Biology Non Maj II	
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	
BSC 118	Honors General Biology I	
BSC 120	Honors Gen Biology II	
CH 101	General Chemistry	
CH 102	General Chemistry	
CH 104	Introductory Chemistry	
CH 105	Introductory Org Chem	
CH 117	Honors General Chemistry	
CH 118	Honors General Chemistry	
PH 101	General Physics I	
PH 102	General Physics II	
PH 105	General Physics W/Calc I	
PH 106	Generl Physics W/Calc II	
PH 125	Honors Gen Ph W/Calculus	
PH 126	Honors Gen Ph W/Calculus	

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Majors must receive a minimum grade of C- in . In addition, a minimum of 12 hours must be earned in 400-level courses, excluding hours earned in PY 451 Undergraduate Research, PY 481 Readings In Psychology and PY 495 Teaching Internship. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

PY 101 Intro To Psychology or PY 105 Honors Intro Psychology is a prerequisite for all higher-numbered psychology courses. Unless otherwise stated, all 400-level PY courses have as a prerequisite 12 hours in the psychology department, including PY 355 General Experimental Psychology and PY 356 Research Laboratory.

Special Opportunities

The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities preparatory for graduate training in psychology. The two-year program is research-oriented and involves interactions with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent on the submission of an independently conducted research project equivalent in quality to a master's thesis. Psychology majors who are in the second semester of the sophomore year with nine hours of coursework in psychology (including PY 101 Intro To Psychology, PY 211 Elem Statistical Methods and a 300-level course) to be completed by the end of the semester may apply for admission to the psychology department honors program. A completed application and interview by the Departmental Honors Committee are required before acceptance. To be accepted, a student must have at least a 3.3 grade point average in psychology coursework and a 3.0 cumulative GPA; however, meeting these minimum requirements does not guarantee admission.

Psychology Major (BS)

Degree Requirements

Students earning the bachelor of science (BS) degree with a major in psychology must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in psychology requires the successful completion of the following 32 semester hours:

		Hours
PY 101	Intro To Psychology	3
PY 211	Elem Statistical Methods	3

PY 355	General Experimental Psychology	3
PY 356	Research Laboratory	2
PY area requirement *		9
PY 471	History Systems In Py	3
Choose one seminar sequence:		6
PY 491	Seminar In Psychology (two semesters)	
PY 379 & PY 491	Junior Honors Seminar and Seminar In Psychology	
PY elective 300 or 400 level		3
Total Hours		32

* Area requirement: Students must complete courses from three of the following content areas for a total of nine hours. At least one course should be at the 400 level.

Developmental

PY 352	Developmental Psych	3
PY 365	Psychology Of Aging	3
PY 461	Child Psychology	3

Learning/Cognition

PY 361	Psychology Of Learning	3
PY 470	Intro Cognitive Psychlgy	3

Social/Personality

PY 358	Abnormal Psychology	3
PY 368	Intro To Personality	3
PY 372	Social Psychology	3

Biologically Based

PY 313	Sensation and Perception	3
PY 413	Physiological Psych	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in psychology requires successful completion of the following courses outside the major:

BSC, CH or PH *		8
MATH 125 or MATH 145	Calculus I Honors Calculus I	4

*Must be chosen from the following:

BSC 108	Intro Biology Non Maj I	4
BSC 109	Intro Biology Non Maj II	4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	4
BSC 118	Honors General Biology I	4
BSC 120	Honors Gen Biology II	4
CH 101	General Chemistry	4
CH 102	General Chemistry	4
CH 104	Introductory Chemistry	4
CH 105	Introductory Org Chem	4
CH 117	Honors General Chemistry	4
CH 118	Honors General Chemistry	4
PH 101	General Physics I	4
PH 102	General Physics II	4
PH 105	General Physics W/Calc I	4
PH 106	Generl Physics W/Calc II	4
PH 125	Honors Gen Ph W/Calculus	4
PH 126	Honors Gen Ph W/Calculus	4

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Majors must receive a minimum grade of C- in PY 211 Elem Statistical Methods. In addition, a minimum of 12 hours must be earned in 400-level courses, excluding hours earned in PY 451 Undergraduate Research, PY 481 Readings In Psychology and PY 495 Teaching Internship . Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

PY 101 Intro To Psychology or PY 105 Honors Intro Psychology is a prerequisite for all higher-numbered psychology courses. Unless otherwise stated, all 400-level PY courses have as a prerequisite 12 hours in the psychology department, including PY 355 General Experimental Psychology and PY 356 Research Laboratory.

Special Opportunities

The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities preparatory for graduate training in psychology. The two-year program is research-oriented and involves interactions with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent on the submission of an independently conducted research project equivalent in quality to a master's thesis. Psychology majors who are in the second semester of the sophomore year with nine hours of coursework in psychology (including PY 101 Intro To Psychology , PY 211 Elem Statistical Methods and a 300-level course) to be completed by the end of the semester may apply for admission to the psychology department honors program. A completed application and interview by the Departmental Honors Committee are required before acceptance. To be accepted, a student must have at least a 3.3 grade point average in psychology coursework and a 3.0 cumulative GPA; however, meeting these minimum requirements does not guarantee admission.

Psychology Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in psychology requires the successful completion of the following 18 semester hours:

		Hours
PY 101	Intro To Psychology	3
PY elective 300 or 400 level		6
PY electives		9
Total Hours		18

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

PY 101 Intro To Psychology or PY 105 Honors Intro Psychology is a prerequisite for all higher-numbered psychology courses. Unless otherwise stated, all 400-level PY courses have as a prerequisite 12 hours in the psychology department, including PY 355 General Experimental Psychology and PY 356 Research Laboratory.

Faculty

Chair and Professor

Thorn, Beverly E.

Professor and Director of Center for Mental Health and Aging

Parmelee, Patricia

Professor and Director of Graduate Studies

Boles, David B.

Saxon Professor

Lochman, John E.

Professors

Allen, Rebecca

Brodsky, Stanley L.

Lichstein, Kenneth L.

Prentice-Dunn, Steven

Salekin, Randall

Scogin, Forrest R., Jr.

Ward, Thomas B.

Associate Professor and Director of Clinical Psychology

Crowther, Martha R.

Associate Professor and Director of Experimental Psychology

Conners, Frances

Associate Professor and Director of Undergraduate Studies

Merrill, Edward C.

Associate Professors

Black, Sheila

Hamilton, James C.

Parker, Jeffrey

Roskos, Beverly

Salekin, Karen

Snow, Lynn A.

Assistant Professor and Director of the Psychological Clinic

Shealy, R. Clayton

Assistant Professors

Dautovich, Natalie

Gable, Philip

Gilpin, Ansley Tullos

Glenn, Andrea

Hart, William

Jarrett, Matthew

Kim, Giyeon

McDonald, Kristina

Ryan, Sarah

Sellbom, Martin

Stanek, Kelly

Tullett, Alexa

Courses

PY 101. Intro To Psychology. 3 sem. hrs.
Basic principles of psychology.

PY 105. Honors Intro Psychology. 3 sem. hrs.
Honors section of PY 101.

PY 155. Creativity. 3 sem. hrs.
This course will introduce students to creativity and creative problem solving from both a theoretical and applied focus.

PY 207. Psychology Of Adjustment. 3 sem. hrs.
Basic principles of mental health and an understanding of the individual models of behavior.
Prerequisite(s): PY 101 or PY 105.

PY 211. Elem Statistical Methods. 3 sem. hrs.
Methods are presented that enable students to make inferences about a population from a knowledge of small samples. Offered each semester and in the summer session.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 and PY 101 or PY 105.

PY 228. Applied Psychology. 3 sem. hrs.
Examination of current uses of Psychology.
Prerequisite(s): PY 101 or PY 105.

PY 313. Sensation and Perception. 3 sem. hrs.
Physiological and psychophysical aspects of the senses.
Prerequisite(s): PY 101.

PY 321. Professional Issues Proseminar in Psychology. 1 sem. hr.
Course orients psychology majors to career opportunities for psychology majors terminating with a BA or BS, as well as those students moving on to post-graduate work.
Prerequisite(s): PY 101 or PY 105.

PY 352. Developmental Psych. 3 sem. hrs.
Physical, intellectual, emotional, and social development throughout the life span.
Prerequisite(s): PY 101 or PY 105.

PY 355. General Experimental Psychology. 3 sem. hrs.
Scientific methods applied to the problems of psychology.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 356.

PY 356. Research Laboratory. 2 sem. hrs.
Application of experimental and statistical techniques in a laboratory setting.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 355.

PY 358. Abnormal Psychology. 3 sem. hrs.
Etiology, symptomatology, and treatment of the major mental behavioral disorders.
Prerequisite(s): PY 101 or PY 105.

PY 361. Psychology Of Learning. 3 sem. hrs.
Theoretical and applied implications of principal findings in learning, memory, and cognition.
Prerequisite(s): PY 101 or PY 105.

PY 365. Psychology Of Aging. 3 sem. hrs.
The intellectual, social, cognitive, and physical development in adulthood with special emphasis on late adulthood.
Prerequisite(s): PY 101 or PY 105.

PY 368. Intro To Personality. 3 sem. hrs.
A study of theories that represent the psychoanalytic, neopsychoanalytic, trait, life span, humanistic, cognitive, behavioral and social-learning approaches to understanding human behavior. Clinical and experimental data are used to evaluate representative personality theories.
Prerequisite(s): PY 101 or PY 105.

PY 371. Psychology Of Gender. 3 sem. hrs.
Review of the contribution of psychological theories and research to the understanding of sex differences in general and to women's roles in particular.
Prerequisite(s): PY 101 or PY 105.

PY 372. Social Psychology. 3 sem. hrs.
Major aspects of social psychology, including aggression, altruism, attitude change, interpersonal relations, prejudice, leadership, and group dynamics.
Prerequisite(s): PY 101 or PY 105.

PY 375. Special Topics In Psychology. 3 sem. hrs.
Courses devoted to topics not currently covered in the Psychology curriculum will be offered under this title.
Prerequisite(s): PY 101 or PY 105.

PY 377. Psych Law And Justice. 3 sem. hrs.
Psychological interpretations of criminality, treatment of offenders, and the roles of psychologists and psychological issues in the justice system.
Prerequisite(s): PY 101 or PY 105.

PY 378. Junior Honors Seminar. 3 sem. hrs.
The course is the first semester of a four-semester honors sequence. Exposure to research methods and opportunites for research within the Department of Psychology.
Prerequisite(s): PY 355
Prerequisite(s) with concurrency: PY 355.

PY 379. Junior Honors Seminar. 3 sem. hrs.
The course is the second semester of a four-semester honors sequence. Preparation of a research proposal and approval of thesis committee is required.
Prerequisite(s): PY 378.

PY 413. Physiological Psych. 3 sem. hrs.
Bodily structures (nervous, muscular, and glandular) underlying behavior.
Prerequisite(s): PY 355.

PY 451. Undergraduate Research. 1-3 sem. hr.
Individual research projects. A maximum of 6 credit hours may be earned in PY 451.
Prerequisite(s): PY 355.

PY 461. Child Psychology. 3 sem. hrs.
Observational and research procedures with infants and young children, with emphasis on operant learning and socialization processes. Suggested for undergraduate seniors.
Prerequisite(s): PY 355.

PY 470. Intro Cognitive Psychlgy. 3 sem. hrs.
Contemporary approaches to cognitive psychology, including topics such as attention and memory.
Prerequisite(s): PY 355.

PY 471. History Systems In Py. 3 sem. hrs.
Systematic points of view in psychology, with a consideration of their historical origins and significance for modern thought.
Prerequisite(s): PY 355.

PY 478. Senior Honors Seminar. 3 sem. hrs.
The course is the third semester of a four-semester honors sequence. Implementation of an approved research proposal.
Prerequisite(s): PY 379.

PY 479. Senior Honors Seminar. 3 sem. hrs.
The course is the final semester of a four-semester honors sequence. Preparation and defense of senior honors thesis.
Prerequisite(s): PY 478.

PY 481. Readings In Psychology. 1-3 sem. hr.
Selected supervised readings. May be repeated for a maximum of 6 hours.
Prerequisite(s): PY 105 or PY 101 or PY 355 or PY 356.

PY 491. Seminar In Psychology. 3 sem. hrs.
Thorough examination of a selected contemporary psychological area. Different topics are offered each semester; descriptions are available at registration. Writing proficiency within this discipline is required for a passing grade in this course. Offered each semester and in the summer session. May be repeated for a maximum of 6 hours.
Prerequisite(s): PY 355 and PY 356.

PY 495. Teaching Internship. 3 sem. hrs.
Supervised experience and training in teaching, course administration, etc., as additional preparation for students planning to pursue graduate study in psychology.

Department of Religious Studies

The Department of Religious Studies engages in the descriptive, comparative, interpretive and explanatory study of religion as a cross-cultural human phenomenon. The Department offers an undergraduate major in religious studies and minors in religious studies and Judaic studies. The Department currently directs the minor in Asian Studies.

Religious Studies Major

212 Manly Hall
religiousstudies@as.ua.edu

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in religious studies must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total 120 credit hours.

Admission into the Major

Students are encouraged to declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama. Prospective double-majors should contact the religious studies office for additional assistance.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in religious studies requires the successful completion of the following 30 semester hours:

Required Courses		Hours
REL 100 or	Intro To Religious Studies	3
REL 105	Honors Intro Relig Stdy	
REL 102	Intro to Religions of the World	3
REL 490	Senior Capstone Seminar *	3
REL track requirement **		12
REL electives		9
Total Hours		30

*REL 490 Senior Capstone Seminar is offered only in the spring semester. Students are expected to enroll during the senior year, but may enroll as early as the junior year.
**Students must earn 12 hours in one of the following three tracks: Religion in Communication, Religion in Conflict or Religion in Context.

Track I: Religion in Communication		Hours
Courses in the Religion in Communication track focus on the ways people communicate about religion in arenas of popular culture as well as in academe.		
REL 110	Intro To The Hebrew Bible	3
REL 112	Intro To New Testament	3
REL 124	Religion & Film in America	3
REL 224	Judaism	3
REL 228	Hy Of Christian Thought	3
REL 231	Religious Existentialism	3
REL 237	Self Society & Religions	3
REL 240	Apocalypse In Contemporary Fil	3
REL 311	English Bible As Literature	3
REL 340	Nietzsche and Religion	3
REL 341	Theories of Myth	3
REL 420	Gospel Of Mark	3
REL 430	Religion and Literature	3

Track II: Religion in Conflict		Hours
Courses in the Religion in Conflict track emphasize the various ways in which religion and conflict overlap and intersect.		
REL 220	Survey Of Asian Religion	3
REL 223	Holocaust Historical Perspecti	3
REL 226	African Diaspora Religions	3
REL 234	Women And Religion	3
REL 240	Apocalypse In Contemporary Fil	3
REL 241	Historical Overview of Religions in America	3
REL 245	Historical Overview of Religions in America	3
REL 321	Rel & Ident in South Asia	3
REL 347	Jewish-Christian Relations	3
REL 410	Religion of Genocide	3
REL 415	Religion in the American South	3
REL 419	Myth Ritual And Magic	3

Track III: Religion in Context

		Hours

Courses in the Religion in Context track focus on collections of beliefs and behaviors in relation to the social contexts in which they appear and operate.

REL 110	Intro To The Hebrew Bible	3
REL 112	Intro To New Testament	3
REL 124	Religion & Film in America	3
REL 220	Survey Of Asian Religion	3
REL 226	African Diaspora Religions	3
REL 228	Hy Of Christian Thought	3
REL 234	Women And Religion	3
REL 235	Native American Relig	3
REL 236	Islam	3
REL 237	Self Society & Religions	3
REL 238	Philosophies Of Judaism	3
REL 241	Historical Overview of Religions in America	3
REL 245	Historical Overview of Religions in America	3
REL 311	English Bible As Literature	3
REL 321	Rel & Ident in South Asia	3
REL 341	Theories of Myth	3
REL 415	Religion in the American South	3
REL 419	Myth Ritual And Magic	3
REL 420	Gospel Of Mark	3

Variable Topics Courses

		Hours

Depending on the topic, the following courses may be counted toward any track. In addition, students can earn a maximum of nine hours for any variable topics courses that address different course content.

REL 360	Individual Research	3
REL 361	Individual Research	3
REL 370	Adv Study Religion In Culture	3
REL 371	Adv St American Religion	3
REL 372	Adv Stdy Mid East European Rel	3
REL 373	Adv Stud Asian Religion	3
REL 460	Individual Research	3
REL 461	Individual Research	3
REL 480	Seminar Religion In Cullture	3
REL 483	Seminar Asian Religion	3
REL 490	Senior Capstone Seminar	3

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses; however, students interested in graduate-level work in the study of religion are advised to take either French or German as part of the undergraduate program of study. Prospective graduate students in religious studies should consult with faculty members concerning additional language study appropriate to their particular scholarly interests.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Including REL 490 Senior Capstone Seminar, a minimum of 15 hours must be earned in 300- or 400-level courses; at least six of these upper-level hours (usually two courses) must be earned in courses offered by the religious studies department.

With department approval, the equivalent of up to 12 credit hours can be applied toward the major requirement from relevant coursework done outside the religious studies department.

Students can count a maximum of six hours of online REL courses toward the major or minor.

For more information on degree requirements, visit as.ua.edu/rel/degree.html. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, college, and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level REL courses is junior standing or permission of the instructor.

Special Opportunities

The department annually awards both Silverstein Fellowships (providing the opportunity to work in the department for one or more semesters, assisting in the main office and assisting professors with their work) and Silverstein Scholarships (awarded by the faculty each Honors Day based on a student's GPA). To learn more about these funding opportunities, visit as.ua.edu/rel/stdeskscholarships.html. The department also conducts three ongoing lecture and discussion series, supports an active Religious Studies Student Association and hosts the local chapter of Theta Alpha Kappa, the national honors society for the study of religion.

Religious Studies Minor

212 Manly Hall
religiousstudies@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in religious studies requires the successful completion of the following 21 semester hours:

Required Courses		Hours
REL 100 or	Intro To Religious Studies	3
REL 105	Honors Intro Relig Stdy	
REL 102	Intro to Religions of the World	3
REL track requirement *		9
REL electives		6
Total Hours		21

*Students must earn nine hours in one of the following three tracks: Religion in Communication, Religion in Conflict or Religion in Context.

Track I: Religion in Communication

		Hours
REL 110	Intro To The Hebrew Bible	3
REL 112	Intro To New Testament	3
REL 124	Religion & Film in America	3
REL 224	Judaism	3
REL 228	Hy Of Christian Thought	3
REL 231	Religious Existentialism	3
REL 237	Self Society & Religions	3
REL 240	Apocalypse In Contemporary Fil	3
REL 311	English Bible As Literature	3
REL 340	Nietzsche and Religion	3
REL 341	Theories of Myth	3
REL 419	Myth Ritual And Magic	3
REL 420	Gospel Of Mark	3
REL 430	Religion and Literature	3

Track II: Religion in Conflict

		Hours
REL 220	Survey Of Asian Religion	3
REL 223	Holocaust Historical Perspecti	3
REL 226	African Diaspora Religions	3
REL 234	Women And Religion	3
REL 240	Apocalypse In Contemporary Fil	3
REL 241	Historical Overview of Religions in America	3
REL 245	Historical Overview of Religions in America	3

REL 321	Rel & Ident in South Asia	3
REL 347	Jewish-Christian Relations	3
REL 410	Religion of Genocide	3
REL 415	Religion in the American South	3
REL 419	Myth Ritual And Magic	3

Track III: Religion in Context

		Hours
REL 110	Intro To The Hebrew Bible	3
REL 112	Intro To New Testament	3
REL 124	Religion & Film in America	3
REL 220	Survey Of Asian Religion	3
REL 226	African Diaspora Religions	3
REL 228	Hy Of Christian Thought	3
REL 234	Women And Religion	3
REL 235	Native American Relig	3
REL 236	Islam	3
REL 237	Self Society & Religions	3
REL 238	Philosophies Of Judaism	3
REL 241	Historical Overview of Religions in America	3
REL 245	Historical Overview of Religions in America	3
REL 311	English Bible As Literature	3
REL 321	Rel & Ident in South Asia	3
REL 341	Theories of Myth	3
REL 415	Religion in the American South	3
REL 419	Myth Ritual And Magic	3
REL 420	Gospel Of Mark	3

Variable Topics Courses

Depending on the topic, the following courses may be counted toward any track. In addition, students can earn a maximum of nine hours for any variable topics courses that address different course content.

		Hours
REL 360	Individual Research	3
REL 361	Individual Research	3
REL 370	Adv Study Religion In Culture	3
REL 371	Adv St American Religion	3
REL 372	Adv Stdy Mid East European Rel	3
REL 373	Adv Stud Asian Religion	3
REL 460	Individual Research	3
REL 461	Individual Research	3
REL 480	Seminar Religion In Cullture	3
REL 483	Seminar Asian Religion	3
REL 490	Senior Capstone Seminar	3

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

A minimum of nine hours must be earned in 300- or 400-level courses.

With department approval, the equivalent of up to six credit hours can be applied toward the minor requirement from relevant coursework done outside of the religious studies department.

Students can count a maximum of six hours of online REL courses toward the minor.

For more information on degree requirements, visit as.ua.edu/rel/degree.html. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level REL courses is junior standing or permission of the instructor.

Asian Studies Minor

212 Manly Hall
religiousstudies@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Asian studies requires the successful completion of the following 18 semester hours:

		Hours
Select two of the following:		6
ARH 254	Survey Of Art III	
HY 244	History of Asia Since 1400	
HY 243	History of Asia to 1400	
REL 220	Survey Of Asian Religion	
Asian related electives*		6
Asian related electives 300 and 400 level *		6
Total Hours		18

*Should be chosen from:

ARH 254	Survey Of Art III	3
ARH 455	Topics In Asian Art	3
ARH 456	The Arts Of Buddhism	3
CHI 301	Intermediate Chinese	3
CHI 302	Intermediate Chinese	3
CHI 350	Traditional Chinese Lit Trans	3
CHI 351	Modern Chinese Lit Trans	3
CHI 353	Conversation/Composition	1-4
CHI 354	Conversation/Composition	1-4
CHI 401	Classical Chinese Language	3
CHI 402	Literary Chinese Language	3
HY 243	History of Asia to 1400	3
HY 244	History of Asia Since 1400	3
HY 306	Hy Of Oriental Thought	3
HY 403	Chinese Civiliz To 1600	3
HY 404	Modern China Since 1600	3
JA 301	Third Year Japanese I	3
JA 302	Third Year Japanese II	3
JA 356	Traditional Japanese Lit Trans	3
JA 357	Japanese Literature & Film	3
JA 390	Topics Japanese Studies	3
JA 410	4 Yr Read/Write Japanese	3
JA 411	4th Year Spoken Japanese	3
JA 481	Directed Readings	1-4
JA 482	Directed Readings	1-4
REL 220	Survey Of Asian Religion	3
REL 236	Islam	3
REL 321	Rel & Ident in South Asia	3
REL 373	Adv Stud Asian Religion	3
REL 483	Seminar Asian Religion	3
WL 350	Traditional Chinese Literature in Translation	3
WL 351	Modern Chinese Literature inTranslation	3
WL 357	Modern Japanese Lit Trans	3

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the minor grade point average. The minor in Asian studies requires the following outside the minor: two semesters or equivalent proficiency in one language chosen from Chinese, Hindi, Indonesian, Japanese, Korean, Thai or Tibetan.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Judaic Studies Minor

212 Manly Hall
religiousstudies@as.ua.edu

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Judaic studies requires the successful completion of the following 21 semester hours:

		Hours
REL 100 or	Intro To Religious Studies or	3
REL 102	Intro to Religions of the World	
REL 105	Honors Intro Relig Stdy	
REL 110	Intro To The Hebrew Bible	3
REL 224	Judaism	3
REL 238	Philosophies Of Judaism	3
Select two of the following electives:		6
REL 223	Holocaust Historical Perspecti	
REL 332	Contemp Jewish Thought	
REL 347	Jewish-Christian Relations	
REL 410	Religion of Genocide	
REL 490	Senior Capstone Seminar *	3
Total Hours		21

*REL 490 Senior Capstone Seminar is offered only in the spring semester. Students are expected to enroll during the senior year, but can enroll as early as the junior year.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students majoring in religious studies may not apply the same religious studies courses toward both the religious studies major and the Judaic studies minor. They must earn 21 hours of REL courses for the minor and 30 hours of REL courses for the major.

With department approval, the equivalent of up to six credit hours can be applied toward the minor requirement from relevant coursework done outside the religious studies department.

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level REL courses is junior standing or permission of the instructor.

Faculty

Chair and Professor

Trost, Theodore L.

Professor

McCutcheon, Russell T.

Associate Professors

Jacobs, Steven L.

Murphy, Tim M.

Ramey, Steven W.

Assistant Professor

Simmons, K. Merinda

Courses

REL 100. Intro To Religious Studies. 3 sem. hrs.
Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures. This course is required of all majors and minors.

REL 101. West Approach Prob Evil. 3 sem. hrs.

REL 102. Intro to Religions of the World. 3 sem. hrs.
This comparative study of religions highlights complexity in world religions. Topics, such as texts, practices, and deities, organize the study of different pairs of religions.

REL 105. Honors Intro Relig Stdy. 3 sem. hrs.
Honors version of REL 100.

REL 110. Intro To The Hebrew Bible. 3 sem. hrs.
Introduction to the books of the Hebrew Bible in their historical setting, with emphasis on textual analysis and on literary forms and their function and use in the past and present.

REL 112. Intro To New Testament. 3 sem. hrs.
Introduction to the Hellenistic world of early Christianity, examining the early traditions about Jesus that were organized into the Gospels and the letters of Paul.

REL 124. Religion & Film in America. 3 sem. hrs.
Uses film as the way into understanding the religious scene in America's broad set of ideas, symbols, social movements, and institutions that affect and are affected by the wider American culture.

REL 220. Survey Of Asian Religion. 3 sem. hrs.
Introductory survey of the major religious traditions of Asia, including Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

REL 223. Holocaust Historical Perspecti. 3 sem. hrs.
Examination of this event, and scholarship on it, from various historical and critical perspectives.

REL 224. Judaism. 3 sem. hrs.
A study of some of the leading schools and interpreters of Judaism and a review of modern developments including the Holocaust and the state of Israel.

REL 226. African Diaspora Religions. 3 sem. hrs.
Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African-American religions in North America), focusing on the interplay between religion, culture and politics.

REL 228. Hy Of Christian Thought. 3 sem. hrs.
The major theological orientations that have shaped Christianity in various social and historical contexts.

REL 231. Religious Existentialism. 3 sem. hrs.
Examines answers offered by such writers as Kierkegaard, Dostoevsky, Buber, Weisel and Tillich, to such questions as: What is the meaning of existence? What is the meaning of my existence? What does it mean to exist authentically in religious terms?

REL 234. Women And Religion. 3 sem. hrs.
The role and place of women in several religious traditions, ancient and modern.

REL 235. Native American Relig. 3 sem. hrs.
Surveys the histories, beliefs, and practices of Native American religions as found in various geographical regions throughout the Americas (e.g., the Aztecs, Lakota, Muskogee, Cree, and Hopi).

REL 236. Islam. 3 sem. hrs.
An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.

REL 237. Self Society & Religions. 3 sem. hrs.
A survey of psychological and social theories used to study religion, drawing on different cultural and historical data of relevance to the approaches surveyed.

REL 238. Philosophies Of Judaism. 3 sem. hrs.
Survey of major philosophical formulations of the nature and role of Jews and Judaism, written by select Jewish thinkers.

REL 240. Apocalypse In Contemporary Fil. 3 sem. hrs.
Examines contemporary portrayals of the end times in popular films.

REL 241. Historical Overview of Religions in America. 3 sem. hrs.
This course offers a survey of religious themes and movements in American culture from the period before European colonization to the present. reactivate.

REL 245. Historical Overview of Religions in America. 3 sem. hrs.
This Honors course offers a survey of religious themes and movements in American culture from the period before European colonization to the present.

REL 311. English Bible As Literature. 3 sem. hrs.
Analytical and critical study of a number of books of the Bible; each book is examined and evaluated as an example of a particular literary genre. Writing proficiency within this discipline is required for a passing grade in this course.

REL 321. Rel & Ident in South Asia. 3 sem. hrs.
Investigates the intersections of various social divisions and identities with religious labels and practices by analyzing case studies from South Asia.

REL 332. Contemp Jewish Thought. 3 sem. hrs.
Examination and analysis of modern Jewish reformulations of divinity, revelation, redemption, election, etc., in critical contrast to classical Jewish and Greek traditions.

REL 340. Nietzsche and Religion. 3 sem. hrs.
Examines the major writings on religion of Friedrich Nietzsche (1844-1900), with special attention to the relationship between religion, rhetoric, language, culture, and power.

REL 341. Theories of Myth. 3 sem. hrs.
Examination of the history of differing theories of myth, conceived as a sub-type of narrative.

REL 347. Jewish-Christian Relations. 3 sem. hrs.
Critical examination of the 2,000-year-old relationship focusing on areas of commonality and difference.

REL 360. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 361. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 370. Adv Study Religion In Culture. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 371. Adv St American Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 372. Adv Stdy Mid East European Rel. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of May be repeated for a maximum of 9 hours for differing topics.

REL 373. Adv Stud Asian Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 410. Religion of Genocide. 3 sem. hrs.
Explores the phenomenon known as genocide by examining its relationship to the religion in both its institutional and theological frameworks.

REL 415. Religion in the American South. 3 sem. hrs.
This course will look at the roles and implications of myths and rituals in the American South, using the UA campus as its own case study and talking about how notions of "the past" come to be invented in different ways for different social purposes through memorials and monuments. Along with learning about specific religious groups and practices that find their homes in the region, students will tackle analytical classifications and contestations of "the South" as an identifiable geographical and cultural space. *Because the course carries the Core "W" designation, writing proficiency is required for a passing grade. An important component of the seminar is the mastering the steps in the writing process, which we will be utilizing throughout the semester. These steps include brainstorming, drafting, peer editing, and revising.
Prerequisite(s): This course is limited to 16 participants. Prerequisites include two courses in Religious Studies or permission of the instructor. Religious Studies 415 will be conducted as an advanced undergraduate seminar, so writing proficiency is required and is a necessary component of successful completion of the course.

REL 419. Myth Ritual And Magic. 3 sem. hrs.
Examination of the theories and methods used to study the relations between religious narrative and behavioral systems. Writing proficiency within this discipline is required for a passing grade in this course.

REL 420. Gospel Of Mark. 3 sem. hrs.
Investigates the Gospel of Mark through the disciplines of contemporary biblical, literary, and cultural criticism. Writing proficiency is required for a passing grade in this course.

REL 430. Religion and Literature. 3 sem. hrs.
This course will examine religion and literature in light of what both discourses rely heavily on: namely, canon formation. From a critical starting point that views these two categories as socio-cultural products, we will discuss problems of authorship, readership, and canonicity with a particular eye toward the questions and implications of decisions that are made regarding what "counts" in literary or religious traditions. To that end, we will read novels whose status in a literary and/or cultural canon was questionable and contested for one reason or another. In some cases, the texts prompted obscenity trials; in others, the texts were published posthumously or with some debate over authorship; and in others, the texts blur boundaries of genre. In every case, however, the legitimacy or importance of the narrative is subject to careful and often controversial legislation. We will read several novels but will also trace critical interventions into these issues of authority, voice, and identity, with readings from thinkers such as Roland Barthes, Michel Foucault, Gayatri Spivak, John Guillory, and Toril Moi. Writing proficiency within this discipline is required for a passing grade in this course.

REL 440. Theories of Religion. 3 sem. hrs.
Examines classic and contemporary theories of religion such as functionalism, structuralism, Marxism, and psychoanalysis. Emphasis may vary with each offering.

REL 460. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 461. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 480. Seminar Religion In Cullture. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 483. Seminar Asian Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 490. Senior Capstone Seminar. 3 sem. hrs.
A seminar offered spring semester of each year for seniors pursuing a major or minor in religious studies or minor in Judaic studies. The professor and subject of the seminar rotate through the four areas of the curriculum. Required of all majors and minors in the Department. May be repeated for a maximum of 9 hours for differing topics.

School of Music

Students wishing to study at the School of Music must make a separate application for admission to the School, which is available online at music.ua.edu/undergraduates/auditions.

Only upon formal acceptance by the School of Music can the students enroll in one of the degree programs: the bachelor of music (BM), which is the professional degree, or the bachelor of arts (BA) with a major in music. Students can also earn a BA with an arts administration concentration. The University of Alabama also offers a program in music education. For more information see the College of Education section of this catalog.

Music Major

Degree Requirements

Students earning the bachelor of arts (BA) degree must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

All students must pass an audition and take an exam on music fundamentals in order to declare a general music major (BA). To schedule an audition, students must fill out a separate application to the School of Music, which is available online at music.ua.edu/undergraduates/auditions.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in music (BA) requires the successful completion of the following 49 semester hours:

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 307	Form And Analysis	3
MUS 497	Senior Project	1
MUS electives 300 or 400 level		9
MUA applied 100 level (two semesters) *		2
MUA applied 200 level (two semesters) *		2
MUA ensembles (four semesters) **		4
MUA 010	Music Convocation (five semesters)	0
Total Hours		49

*Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from the following courses:

MUA 170 & MUA 270	Harp (Majors) and Harp (Majors)	4
MUA 171 & MUA 271	Piano (Majors) and Piano (Majors)	4
MUA 172 & MUA 272	Organ (Majors) and Organ (Majors)	4
MUA 174 & MUA 274	Voice (Majors) and Voice (Majors)	4
MUA 175 & MUA 275	Violin (Majors) and Violin (Majors)	4
MUA 176 & MUA 276	Viola (Majors) and Viola (Majors)	4
MUA 177 & MUA 277	Cello (Majors) and Cello (Majors)	4
MUA 178 & MUA 278	String Bass (Majors) and String Bass (Majors)	4
MUA 179 & MUA 279	Flute (Majors) and Flute (Majors)	4
MUA 180 & MUA 280	Oboe (Majors) and Oboe (Majors)	4
MUA 181 & MUA 281	Bassoon (Majors) and Bassoon (Majors)	4
MUA 182 & MUA 282	Clarinet (Majors) and Clarinet (Majors)	4
MUA 183 & MUA 283	Saxophone (Majors) and Saxophone (Majors)	4
MUA 184 & MUA 284	Trumpet (Majors) and Trumpet (Majors)	4
MUA 185 & MUA 285	French Horn (Majors) and French Horn (Majors)	4
MUA 186 & MUA 286	Trombone (Majors) and Trombone (Majors)	4
MUA 187 & MUA 287	Euphonium (Majors) and Euphonium (Majors)	4
MUA 188 & MUA 288	Tuba (Majors) and Tuba (Majors)	4
MUA 189 & MUA 289	Percussion (Majors) and Percussion (Majors)	4
MUA 190 & MUA 290	Guitar (Majors) and Guitar (Majors)	4

**Four semesters of ensemble should be chosen from the following courses:

MUA 150	Symphony Orchestra	1
MUA 250	Symphony Orchestra	1
MUA 350	Symphony Orchestra	1
MUA 450	Symphony Orchestra	1
MUA 152	Wind Ensemble	1
MUA 252	Wind Ensemble	1
MUA 352	Wind Ensemble	1
MUA 452	Wind Ensemble	1
MUA 153	Marching Band	1
MUA 253	Marching Band	1
MUA 353	Marching Band	1
MUA 453	Marching Band	1
MUA 154	Symphonic Band	1
MUA 254	Symphonic Band	1
MUA 354	Symphonic Band	1
MUA 454	Symphonic Band	1
MUA 156	Percussion Ensemble	1
MUA 256	Percussion Ensemble	1
MUA 356	Percussion Ensemble	1
MUA 456	Percussion Ensemble	1
MUA 158	Contemp Music Ensemble	1
MUA 258	Contemporary Ensemble	0-1
MUA 358	Contemp Music Ensemble	1
MUA 458	Contemporary Ensemble	0-1
MUA 159	Jazz Ensembles	1
MUA 259	Jazz Ensemble	1
MUA 359	Jazz Ensembles	1
MUA 459	Jazz Ensemble	1
MUA 160	Opera Workshop	1
MUA 260	Opera Workshop	1
MUA 360	Opera Workshop	1
MUA 460	Opera Workshop	1
MUA 161	Opera Production	1
MUA 261	Opera Production	1
MUA 361	Opera Production	1
MUA 461	Opera Production	1
MUA 162	University Chorus	1
MUA 262	University Chorus	1
MUA 362	University Chorus	1
MUA 462	University Chorus	1
MUA 163	University Singers	1
MUA 263	University Singers	1

MUA 363	University Singers	1
MUA 463	University Singers	1
MUA 166	Piano Ensemble I	1
MUA 266	Piano Ensemble	0-1
MUA 366	Piano Ensemble	0-1
MUA 466	Piano Ensemble	0-1
MUA 167	Jazz Combo	1
MUA 267	Jazz Combo	1
MUA 367	Jazz Combo	1
MUA 467	Jazz Combo	1
MUA 169	Chamber Music	1
MUA 269	Chamber Music	1
MUA 369	Chamber Music	1
MUA 469	Chamber Music	1

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The music major does not require ancillary courses.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

MUS 121 Intro To Listening does not satisfy the fine arts (FA) general education requirement for music majors. At the beginning of the senior year, the student, in consultation with the music adviser, selects a faculty adviser for the senior project, which is usually a substantial paper on a historical or theoretical topic. The topic and format of the project must be approved by the project adviser. The project must be turned in one month before the last day of classes in the final semester. It will be examined by a faculty committee selected by the project adviser. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Music Performance Major

Degree Requirements

Students earning the bachelor of music (BM) degree with a major in performance must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 131 applicable semester hours.

Admission into the Major

All students must pass an audition and take an exam on music fundamentals in order to declare a music performance major. To schedule an audition, students must fill out a separate application to the School of Music, which is available online at music.ua.edu/undergraduates/auditions.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in performance culminates in a bachelor of music (BM) degree and requires the successful completion of one of the following six tracks:

Piano Track		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 240	Piano Pedagogy	2
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 303 or	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	
Select one of the following:		3
MUS 303	16th Cent Counterpoint	
MUS 304	18th Cent Counterpoint	
MUS 403	Advanced Counterpoint	
MUS 418	Structural Analysis II	
MUS 426	Analysis 20th Cent Music	
MUS 307	Form And Analysis	3
MUS 335	Accompanying Class	2
MUS 351	Fund Of Conducting	2
MUS 406	Keyboard Techniques	2
MUS 471	Lit Of The Piano	2
MUS 472	Lit Of The Piano	2
MUS electives 300 or 400 level		4
MUA 010	Music Convocation (five semesters)	0
MUA 171 Piano (two semesters) *		6
MUA 271 Piano (two semesters) *		6
MUA 199	Sophomore Qualifying	0
MUA 371 PIano (two semesters) *		5
MUA 399	Junior Recital	1
MUA 471 Piano (two semesters) *		5
MUA 499	Senior Recital	1
MUA secondary (four semesters) **		4
MUA 166 Piano Ensemble I (two semesters)		2
MUA ensembles (six semesters) ***		6
Total Hours		89

*Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

**Four semesters of secondary applied music credit must be in voice or a single instrument chosen from the following courses:

MUA 232	Organ (Secondary)
MUA 233	Harpsichord (Secondary)
MUA 234	Voice (Secondary)
MUA 235	Violin (Secondary)
MUA 236	Viola (Secondary)
MUA 237	Cello (Secondary)
MUA 238	String Bass (Secondary)
MUA 239	Flute (Secondary)
MUA 240	Oboe (Secondary)
MUA 241	Bassoon (Secondary)
MUA 242	Clarinet (Secondary)
MUA 243	Saxophone (Secondary)
MUA 244	Trumpet (Secondary)
MUA 245	French Horn (Secondary)
MUA 246	Trombone (Secondary)
MUA 247	Euphonium (Secondary)
MUA 248	Tuba (Secondary)
MUA 249	Percussion (Secondary)

***Six semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra

MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 160	Opera Workshop
MUA 260	Opera Workshop
MUA 360	Opera Workshop
MUA 460	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 361	Opera Production
MUA 461	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music
MUA 369	Chamber Music
MUA 469	Chamber Music

Organ Track

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 303 or	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	
Select one of the following:		3
MUS 303	16th Cent Counterpoint	
MUS 304	18th Cent Counterpoint	
MUS 403	Advanced Counterpoint	
MUS 418	Structural Analysis II	
MUS 426	Analysis 20th Cent Music	
MUS 307	Form And Analysis	3
MUS 333	Service Playing	3
MUS 334	Service Playing	3
MUS 351	Fund Of Conducting	2
MUS 478	Organ Literature	2
MUS 492	Choral Conducting	2
MUS electives 300 or 400 level		2
MUA 010	Music Convocation (five semesters)	0
MUA 172 Organ (two semesters) *		6
MUA 272 Organ (two semesters) *		6
MUA 199	Sophomore Qualifying	0
MUA 372 Organ (two semesters) *		5
MUA 399	Junior Recital	1
MUA 472 Organ (two semesters) *		5
MUA 499	Senior Recital	1
MUA ensembles (eight semesters) **		8
MUA 231 Piano (Secondary) (four semesters)		4
Total Hours		87

*Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

**Eight semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 160	Opera Workshop
MUA 260	Opera Workshop

MUA 360	Opera Workshop
MUA 460	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 361	Opera Production
MUA 461	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music
MUA 369	Chamber Music
MUA 469	Chamber Music

Strings Track

		Hours
MUS 303 or	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	
MUA 169	Chamber Music	4
& MUA 269	and Chamber Music	
& MUA 369	and Chamber Music	
& MUA 469	and Chamber Music	
MUA ensembles (eight semesters)**		8
MUA 124 or	Class Piano IV	0-4
MUA 299	Piano Proficiency	
MUA 499	Senior Recital	1
MUA string instrument 400 level (two semesters)**		5
MUA 399	Junior Recital	1
MUA string instrument 300 level (two semesters)**		5
MUA 199	Sophomore Qualifying	0
MUA string instrument 200 level (two semesters)**		6
MUA string instrument 100 level (two semesters)**		6
MUA 010	Music Convocation	0
MUS electives 300 to 400 level		2
MUS 473	String Literature	2
MUS 351	Fund Of Conducting	2
MUS 323	Music History III	3
MUS 307 or	Form And Analysis or or or or	3
MUS 426	Analysis 20th Cent Music	
MUS 418	Structural Analysis II	
MUS 403	Advanced Counterpoint	
MUS 304	18th Cent Counterpoint	
MUS 303	16th Cent Counterpoint	
MUS 252	Music History II	3
MUS 251	Music History I	3
MUS 250	Music In World Cultures	3
MUS 217	Theory IV	4
MUS 215	Theory III	4
MUS 117	Theory II	4
MUS 115	Theory I	4
Total Hours		76-80

*Students must earn 22 hours and eight semesters in a single string instrument, with a minimum of five hours at the 300 and five hours at the 400 level chosen from:

MUA 175	Violin (Majors)
& MUA 275	and Violin (Majors)
& MUA 375	and Violin (Majors)
& MUA 475	and Violin (Majors)
MUA 176	Viola (Majors)
& MUA 276	and Viola (Majors)
& MUA 376	and Viola (Majors)
& MUA 476	and Viola (Majors)
MUA 177	Cello (Majors)
& MUA 277	and Cello (Majors)
& MUA 377	and Cello (Majors)
& MUA 477	and Cello (Majors)
MUA 178	String Bass (Majors)
& MUA 278	and String Bass (Majors)
& MUA 378	and String Bass (Majors)
& MUA 478	and Sting Bass (Majors)

**Eight semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo

Winds and Percussion Track

		Hours
MUS 303 or	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	
MUA large ensembles (eight semesters)**		8
MUA 169	Chamber Music	4
& MUA 269	and Chamber Music	
& MUA 369	and Chamber Music	
& MUA 469	and Chamber Music	
MUA 199	Sophomore Qualifying	0
MUA applied 100 level (two semesters)*		6
MUA applied 200 level (two semesters)*		6
MUA 399	Junior Recital	1
MUA applied 300 level (two semesters)*		5
MUA 499	Senior Recital	1
MUA applied 400 level (two semesters)*		5
MUA 124 or	Class Piano IV	0-4
MUA 299	Piano Proficiency	
MUA 010	Music Convocation (((five semesters)))	0

MUS 351	Fund Of Conducting	2
MUS 307 or	Form And Analysis or or or or	3
MUS 426	Analysis 20th Cent Music	
MUS 418	Structural Analysis II	
MUS 403	Advanced Counterpoint	
MUS 304	18th Cent Counterpoint	
MUS 303	16th Cent Counterpoint	
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
Total Hours		69-73

*Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons. Applied study should be chosen from the following courses:

MUA 179	Flute (Majors)
& MUA 279	and Flute (Majors)
& MUA 379	and Flute (Majors)
& MUA 479	and Flute (Majors)
MUA 180	Oboe (Majors)
& MUA 280	and Oboe (Majors)
& MUA 380	and Oboe (Majors)
& MUA 480	and Oboe (Majors)
MUA 181	Bassoon (Majors)
& MUA 281	and Bassoon (Majors)
& MUA 381	and Bassoon (Majors)
& MUA 481	and Bassoon (Majors)
MUA 182	Clarinet (Majors)
& MUA 282	and Clarinet (Majors)
& MUA 382	and Clarinet (Majors)
& MUA 482	and Clarinet (Majors)
MUA 183	Saxophone (Majors)
& MUA 283	and Saxophone (Majors)
& MUA 383	and Saxophone (Majors)
& MUA 483	and Saxophone (Majors)
MUA 184	Trumpet (Majors)
& MUA 284	and Trumpet (Majors)
& MUA 384	and Trumpet (Majors)
& MUA 484	and Trumpet (Majors)
MUA 185	French Horn (Majors)
& MUA 285	and French Horn (Majors)
& MUA 385	and French Horn (Majors)
& MUA 485	and French Horn (Majors)
MUA 186	Trombone (Majors)
& MUA 286	and Trombone (Majors)
& MUA 386	and Trombone (Majors)
& MUA 486	and Trombone (Majors)
MUA 187	Euphonium (Majors)
& MUA 287	and Euphonium (Majors)
& MUA 387	and Euphonium (Majors)
& MUA 487	and Euphonium (Majors)
MUA 188	Tuba (Majors)
& MUA 288	and Tuba (Majors)
& MUA 388	and Tuba (Majors)
& MUA 488	and Tuba (Majors)
MUA 189	Percussion (Majors)
& MUA 289	and Percussion (Majors)
& MUA 389	and Percussion (Majors)
& MUA 489	and Percussion (Majors)

**Eight semesters of large ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo

Voice Track

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 254	Diction For Singers I	3
MUS 255	Diction For Singers II	3
MUS 303 or	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	
Select one of the following:		3
MUS 303	16th Cent Counterpoint	
MUS 304	18th Cent Counterpoint	
MUS 403	Advanced Counterpoint	
MUS 418	Structural Analysis II	
MUS 426	Analysis 20th Cent Music	
MUS 307	Form And Analysis	3
MUS 351	Fund Of Conducting	2
MUS 444	Vocal Pedagogy	2
MUS 474	Song Literature	3
MUS 475	Song Literature	3

MUS 492	Choral Conducting	2
MUA 010	Music Convocation (five semesters)	0
MUA 174 Voice (two semesters) *		6
MUA 274 Voice (two semesters) *		6
MUA 199	Sophomore Qualifying	0
MUA 374 Voice (two semesters) *		5
MUA 399	Junior Recital	1
MUA 474 Voice (two semesters) *		5
MUA 499	Senior Recital	1
MUA 124 OR MUA 299		0-4
MUA choral ensemble (eight semesters) **		8
Total Hours		87-91

*Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

**Eight semesters of choral ensembles should be chosen from the following courses:

MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus

MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers

Ancillary Courses

The voice performance track requires 16 hours of French, German and Italian with two semesters in at least one language.

FR 101 or	Elementary French I	4
FR 103	French 1st Year Review	
GN 101 or	Elementary German I	4
GN 103	Accelerated Elementary German	
IT 101	Introductory Italian I	4
Select one of the following:		4
FR 102	Elementary French II	
GN 102	Elementary German II	
IT 102	Introductory Italian II	

Jazz Studies Track

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 228	Jazz Piano Jazz Theory I	1
MUS 229	Jazz Piano And Theory II	1
MUS 230	Improvisation I	1
MUS 231	Improvisation II	1
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 303 or	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	
MUS 307	Form And Analysis	3
MUS 310	Arranging	3
MUS 312	Intermediate Arranging	3
MUS 323	Music History III	3
MUS 331	Jazz Symposium *	3
MUS 340	Intro Recording Techniq	3
MUS 351	Fund Of Conducting	2
MUS 401	Film Scoring I	3
MUS 402	Film Scoring II	3
MUS 405	Studio Tech Arrang Orchs	3
MUS 461	History/Literature Jazz	3
MUA 010	Music Convocation (five semesters)	0
MUA applied instrument 100 level (two semesters) **		4
MUA applied instrument 200 level (two semesters) **		4
MUA 199	Sophomore Qualifying	0
MUA applied instrument 300 level (two semesters) **		4
MUA applied instrument 400 level (two semesters) **		3
MUA 499	Senior Recital	1
Students must pass MUA 124 OR MUA 299		0-4
MUA 159	Jazz Ensembles	4
& MUA 259	and Jazz Ensemble	
& MUA 359	and Jazz Ensembles	
& MUA 459	and Jazz Ensemble ((four semesters))	
MUA 167	Jazz Combo	4
& MUA 267	and Jazz Combo	
& MUA 367	and Jazz Combo	
& MUA 467	and Jazz Combo ((four semesters))	
Total Hours		88-92

*MUS 331 Jazz Symposium will be used as an upper-level theory requirement in jazz studies.

**Students must earn 16 hours and eight semesters in a single jazz instrument, with a minimum of eight hours at the 300 level chosen from the following courses:

MUA 171	Piano (Majors)
& MUA 271	and Piano (Majors)
& MUA 371	and Piano (Majors)
& MUA 471	and Piano (Majors)
MUA 178	String Bass (Majors)
& MUA 278	and String Bass (Majors)
& MUA 378	and String Bass (Majors)
& MUA 478	and Sting Bass (Majors)
MUA 179	Flute (Majors)
& MUA 279	and Flute (Majors)
& MUA 379	and Flute (Majors)
& MUA 479	and Flute (Majors)
MUA 182	Clarinet (Majors)
& MUA 282	and Clarinet (Majors)
& MUA 382	and Clarinet (Majors)
& MUA 482	and Clarinet (Majors)
MUA 183	Saxophone (Majors)
& MUA 283	and Saxophone (Majors)
& MUA 383	and Saxophone (Majors)
& MUA 483	and Saxophone (Majors)
MUA 184	Trumpet (Majors)
& MUA 284	and Trumpet (Majors)
& MUA 384	and Trumpet (Majors)
& MUA 484	and Trumpet (Majors)
MUA 186	Trombone (Majors)
& MUA 286	and Trombone (Majors)
& MUA 386	and Trombone (Majors)
& MUA 486	and Trombone (Majors)
MUA 189	Percussion (Majors)
& MUA 289	and Percussion (Majors)
& MUA 389	and Percussion (Majors)
& MUA 489	and Percussion (Majors)
MUA 190	Guitar (Majors)
& MUA 290	and Guitar (Majors)
& MUA 390	and Guitar (Majors)
& MUA 490	and Guitar (Majors)

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA.

Required Minor

The music performance major does not require the completion of a minor.

Additional Major Requirements

MUS 121 Intro To Listening does not satisfy the fine arts (FA) general education requirement for music majors. All music performance majors must earn a minimum of 33 hours of 300- or 400-level courses. To be admitted to the performance major in voice, students must complete the general admission requirements of the School of Music, including an audition program that includes a demonstration of the potential understanding of the classical vocal style (i.e., classical art songs sung in English and/or foreign languages). The foreign language requirement must be met with specific courses determined by placement examinations; students should consult the voice adviser for details.

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Music Composition Major

Degree Requirements

Students earning the bachelor of music (BM) degree with a major in composition must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 138 applicable semester hours.

Admission into the Major

In order to declare a major in Music Composition, students must submit sample compositions and take an exam on music fundamentals. Upon successful review of this material, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in composition requires the successful completion of the following 93 semester hours:

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 219	Composition I	2
MUS 220	Composition II	2
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 303	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	3
MUS 307	Form And Analysis	3
MUS 319	Composition III	3
MUS 320	Composition IV	3
MUS 323	Music History III	3
MUS 325	Orchestration I	3
MUS 351	Fund Of Conducting	2
MUS 403 or	Advanced Counterpoint	3
MUS 426	Analysis 20th Cent Music	
MUS 418	Structural Analysis II	3
MUS 419	Composition V	3
MUS 420	Composition VI	3
MUS 492 or	Choral Conducting	2
MUS 494	Band Conducting	
MUS electives 300 or 400 level		3
MUA 010	Music Convocation ((five semesters))	0
Select four of the following:		8
MUA 121	Class Piano I	
MUA 122	Class Piano II	
MUA 123	Class Piano III	
MUA 124	Class Piano IV	
MUA 271	Piano (Majors)	
MUA applied (eight semesters) *		8
MUA ensembles (eight semesters) **		8
MUA 299	Piano Proficiency	0
Total Hours		93

*Students must earn a minimum of eight hours and eight semesters in a single instrument or voice chosen from the following courses:

MUA 170	Harp (Majors)
& MUA 270	and Harp (Majors)
& MUA 370	and Harp (Majors)
& MUA 470	
MUA 171	Piano (Majors)
& MUA 271	and Piano (Majors)
& MUA 371	and Piano (Majors)
& MUA 471	and Piano (Majors)
MUA 172	Organ (Majors)
& MUA 272	and Organ (Majors)
& MUA 372	and Organ (Majors)
& MUA 472	and Organ (Majors)
MUA 174	Voice (Majors)
& MUA 274	and Voice (Majors)
& MUA 374	and Voice (Majors)
& MUA 474	and Voice (Majors)
MUA 175	Violin (Majors)
& MUA 275	and Violin (Majors)
& MUA 375	and Violin (Majors)
& MUA 475	and Violin (Majors)
MUA 176	Viola (Majors)
& MUA 276	and Viola (Majors)
& MUA 376	and Viola (Majors)
& MUA 476	and Viola (Majors)
MUA 177	Cello (Majors)
& MUA 277	and Cello (Majors)
& MUA 377	and Cello (Majors)
& MUA 477	and Cello (Majors)
MUA 178	String Bass (Majors)
& MUA 278	and String Bass (Majors)
& MUA 378	and String Bass (Majors)
& MUA 478	and Sting Bass (Majors)
MUA 179	Flute (Majors)
& MUA 279	and Flute (Majors)
& MUA 379	and Flute (Majors)
& MUA 479	and Flute (Majors)
MUA 180	Oboe (Majors)
& MUA 280	and Oboe (Majors)
& MUA 380	and Oboe (Majors)
& MUA 480	and Oboe (Majors)
MUA 181	Bassoon (Majors)
& MUA 281	and Bassoon (Majors)
& MUA 381	and Bassoon (Majors)
& MUA 481	and Bassoon (Majors)
MUA 182	Clarinet (Majors)
& MUA 282	and Clarinet (Majors)
& MUA 382	and Clarinet (Majors)
& MUA 482	and Clarinet (Majors)
MUA 183	Saxophone (Majors)
& MUA 283	and Saxophone (Majors)
& MUA 383	and Saxophone (Majors)
& MUA 483	and Saxophone (Majors)
MUA 184	Trumpet (Majors)
& MUA 284	and Trumpet (Majors)
& MUA 384	and Trumpet (Majors)
& MUA 484	and Trumpet (Majors)
MUA 185	French Horn (Majors)
& MUA 285	and French Horn (Majors)
& MUA 385	and French Horn (Majors)
& MUA 485	and French Horn (Majors)

MUA 186	Trombone (Majors)
& MUA 286	and Trombone (Majors)
& MUA 386	and Trombone (Majors)
& MUA 486	and Trombone (Majors)
MUA 187	Euphonium (Majors)
& MUA 287	and Euphonium (Majors)
& MUA 387	and Euphonium (Majors)
& MUA 487	and Euphonium (Majors)
MUA 188	Tuba (Majors)
& MUA 288	and Tuba (Majors)
& MUA 388	and Tuba (Majors)
& MUA 488	and Tuba (Majors)
MUA 189	Percussion (Majors)
& MUA 289	and Percussion (Majors)
& MUA 389	and Percussion (Majors)
& MUA 489	and Percussion (Majors)
MUA 190	Guitar (Majors)
& MUA 290	and Guitar (Majors)
& MUA 390	and Guitar (Majors)
& MUA 490	and Guitar (Majors)

**Eight semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 160	Opera Workshop
MUA 260	Opera Workshop
MUA 360	Opera Workshop
MUA 460	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 361	Opera Production
MUA 461	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music
MUA 369	Chamber Music
MUA 469	Chamber Music

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in music composition requires the successful completion of the following courses outside the major:

One of the following:		4-8
GN 101	Elementary German I	
& GN 102	and Elementary German II	
GN 103	Accelerated Elementary German	

Required Minor

The music composition major does not require the completion of a minor.

Additional Major Requirements

MUS 121 Intro To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Composition majors may audition for status as “principals” in any instrument or voice. Principal status qualifies the student for two hours of credit per semester instead of the usual one hour. Not more than 10 hours or fewer than two hours may be taken in any single instrument or family of instruments. Students who do not qualify as piano principals must enroll for that instrument during every semester. During the senior year, composition majors must present, to the satisfaction of the composition faculty, a recital of their works. Readings of works for large ensemble will count toward the fulfillment of this requirement.

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Music Theory Major

Degree Requirements

Students earning the bachelor of music (BM) degree with a major in theory must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 129 applicable semester hours.

Admission into the Major

In order to declare a major in music theory, students must submit a writing sample and a statement of career goals and must take an exam on music fundamentals. Upon successful review of this material, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in theory requires the successful completion of the following 79 semester hours:

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 219	Composition I	2
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 300	Intro Music Theory Research	2
MUS 303	16th Cent Counterpoint	3
MUS 304	18th Cent Counterpoint	3
MUS 307	Form And Analysis	3
MUS 323	Music History III	3
MUS 325	Orchestration I	3
MUS 351	Fund Of Conducting	2
MUS 403	Advanced Counterpoint	3
MUS 418	Structural Analysis II	3
MUS 426	Analysis 20th Cent Music	3
MUS 492 or	Choral Conducting	2
MUS 494	Band Conducting	
MUS electives 300 or 400 level		3
MUA 010	Music Convocation ((five semesters))	0
Select four of the following:		8
MUA 121	Class Piano I	
MUA 122	Class Piano II	
MUA 123	Class Piano III	
MUA 124	Class Piano IV	
MUA 271	Piano (Majors)	
MUA applied (four semesters) *		4
MUA ensembles (four semesters) **		4
MUA 299	Piano Proficiency	0
Total Hours		76

*Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from:

MUA 170	Harp (Majors)
& MUA 270	and Harp (Majors)
& MUA 370	and Harp (Majors)
& MUA 470	
MUA 171	Piano (Majors)
& MUA 271	and Piano (Majors)
& MUA 371	and Piano (Majors)
& MUA 471	and Piano (Majors)
MUA 172	Organ (Majors)
& MUA 272	and Organ (Majors)
& MUA 372	and Organ (Majors)
& MUA 472	and Organ (Majors)
MUA 174	Voice (Majors)
& MUA 274	and Voice (Majors)
& MUA 374	and Voice (Majors)
& MUA 474	and Voice (Majors)
MUA 175	Violin (Majors)
& MUA 275	and Violin (Majors)
& MUA 375	and Violin (Majors)
& MUA 475	and Violin (Majors)
MUA 176	Viola (Majors)
& MUA 276	and Viola (Majors)
& MUA 376	and Viola (Majors)
& MUA 476	and Viola (Majors)
MUA 177	Cello (Majors)
& MUA 277	and Cello (Majors)
& MUA 377	and Cello (Majors)
& MUA 477	and Cello (Majors)
MUA 178	String Bass (Majors)
& MUA 278	and String Bass (Majors)
& MUA 378	and String Bass (Majors)
& MUA 478	and Sting Bass (Majors)
MUA 179	Flute (Majors)
& MUA 279	and Flute (Majors)
& MUA 379	and Flute (Majors)
& MUA 479	and Flute (Majors)
MUA 180	Oboe (Majors)
& MUA 280	and Oboe (Majors)
& MUA 380	and Oboe (Majors)
& MUA 480	and Oboe (Majors)
MUA 181	Bassoon (Majors)
& MUA 281	and Bassoon (Majors)
& MUA 381	and Bassoon (Majors)
& MUA 481	and Bassoon (Majors)
MUA 182	Clarinet (Majors)
& MUA 282	and Clarinet (Majors)
& MUA 382	and Clarinet (Majors)
& MUA 482	and Clarinet (Majors)
MUA 183	Saxophone (Majors)
& MUA 283	and Saxophone (Majors)
& MUA 383	and Saxophone (Majors)
& MUA 483	and Saxophone (Majors)
MUA 184	Trumpet (Majors)
& MUA 284	and Trumpet (Majors)
& MUA 384	and Trumpet (Majors)
& MUA 484	and Trumpet (Majors)
MUA 185	French Horn (Majors)
& MUA 285	and French Horn (Majors)
& MUA 385	and French Horn (Majors)
& MUA 485	and French Horn (Majors)
MUA 186	Trombone (Majors)
& MUA 286	and Trombone (Majors)
& MUA 386	and Trombone (Majors)
& MUA 486	and Trombone (Majors)
MUA 187	Euphonium (Majors)
& MUA 287	and Euphonium (Majors)
& MUA 387	and Euphonium (Majors)
& MUA 487	and Euphonium (Majors)
MUA 188	Tuba (Majors)
& MUA 288	and Tuba (Majors)
& MUA 388	and Tuba (Majors)
& MUA 488	and Tuba (Majors)
MUA 189	Percussion (Majors)
& MUA 289	and Percussion (Majors)
& MUA 389	and Percussion (Majors)
& MUA 489	and Percussion (Majors)
MUA 190	Guitar (Majors)
& MUA 290	and Guitar (Majors)
& MUA 390	and Guitar (Majors)
& MUA 490	and Guitar (Majors)

**Four semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band

MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 160	Opera Workshop
MUA 260	Opera Workshop
MUA 360	Opera Workshop
MUA 460	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 361	Opera Production
MUA 461	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music
MUA 369	Chamber Music
MUA 469	Chamber Music

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The music major in theory requires 12–14 hours of French, German and/or Italian subject to theory faculty approval.

Required Minor

The music theory major does not require the completion of a minor.

Additional Major Requirements

MUS 121 Intro To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Theory majors may audition for status as ”principals” in any instrument or voice. Principal status qualifies the student for two hours of credit per semester instead of the usual one hour. No more than 10 hours or fewer than two hours may be taken in any single instrument or family of instruments. Students who do not qualify as piano principals must enroll for that instrument during every semester. The Seminar in Music Theory Research is normally taken during the second semester of the student’s sophomore year. During the senior year, theory majors must present, to the satisfaction of the theory faculty, a paper delivered as a lecture based on research done under the supervision of theory faculty.

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Music Therapy Major

Degree Requirements

Students earning the bachelor of music (BM) degree with a major in music therapy must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 144 applicable semester hours.

Admission into the Major

All students must pass an audition and take an exam on music fundamentals in order to declare a music therapy major. To schedule an audition, students must fill out a separate application to the School of Music, which is available online at music.ua.edu/undergraduates/auditions.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in music therapy requires the successful completion of the following 99 hours:

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 180	Intro Music Therapy	2
MUS 182	Obsrv Orient Mu Therapy	2
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 280	Music Therapy Skills Repertoir	2
MUS 281	Music Recreation Techniques	2
MUS 282	Music Therapy Practicum ((two semesters))	2
MUS 382	Music Therapy Practicum ((four semesters))	4
MUS 351	Fund Of Conducting	2
MUS 380	Intro Psychology Music	3
MUS 480	Music in Therapy I	3
MUS 481	Music Therapy II	3
MUS 482	Music In Therapy III	3
MUS 487	Sem Prof Pract Mu Therp	2
MUS 488	Comp Exam Music Therapy	0
MUS 489	Music Therapy Internship	6
MUE 251	Intro To Winds, Str, Per	3
MUA principal 100 level (two semesters) *		4
MUA principal 200 level (two semseters) *		4
MUA 199	Sophomore Qualifying	0
MUA pincipal 300 level (two semesters) *		3
MUA 399	Junior Recital	1
MUA principal 400 level (two semesters) *		4
Additional study **		5
MUA 220	Class Guitar	1
MUA ensembles (eight semesters) ***		8
MUA 010	Music Convocation (five semesters)	0
MUA 299	Piano Proficiency	0
Total Hours		97

*Students must earn a minimum of 15 hours and eight semesters in a single instrument or voice, with a minimum of three hours at the 300 level and four hours at the 400 level. In the semester a student registers for MUA 399 Junior Recital, only

one hour of applied lessons should be scheduled. These courses should be chosen from the following courses:

MUA 170	Harp (Majors)
& MUA 270	and Harp (Majors)
& MUA 370	and Harp (Majors)
& MUA 470	
MUA 171	Piano (Majors)
& MUA 271	and Piano (Majors)
& MUA 371	and Piano (Majors)
& MUA 471	and Piano (Majors)
MUA 172	Organ (Majors)
& MUA 272	and Organ (Majors)
& MUA 372	and Organ (Majors)
& MUA 472	and Organ (Majors)
MUA 174	Voice (Majors)
& MUA 274	and Voice (Majors)
& MUA 374	and Voice (Majors)
& MUA 474	and Voice (Majors)
MUA 175	Violin (Majors)
& MUA 275	and Violin (Majors)
& MUA 375	and Violin (Majors)
& MUA 475	and Violin (Majors)
MUA 176	Viola (Majors)
& MUA 276	and Viola (Majors)
& MUA 376	and Viola (Majors)
& MUA 476	and Viola (Majors)
MUA 177	Cello (Majors)
& MUA 277	and Cello (Majors)
& MUA 377	and Cello (Majors)
& MUA 477	and Cello (Majors)
MUA 178	String Bass (Majors)
& MUA 278	and String Bass (Majors)
& MUA 378	and String Bass (Majors)
& MUA 478	and Sting Bass (Majors)
MUA 179	Flute (Majors)
& MUA 279	and Flute (Majors)
& MUA 379	and Flute (Majors)
& MUA 479	and Flute (Majors)
MUA 180	Oboe (Majors)
& MUA 280	and Oboe (Majors)
& MUA 380	and Oboe (Majors)
& MUA 480	and Oboe (Majors)
MUA 181	Bassoon (Majors)
& MUA 281	and Bassoon (Majors)
& MUA 381	and Bassoon (Majors)
& MUA 481	and Bassoon (Majors)
MUA 182	Clarinet (Majors)
& MUA 282	and Clarinet (Majors)
& MUA 382	and Clarinet (Majors)
& MUA 482	and Clarinet (Majors)
MUA 183	Saxophone (Majors)
& MUA 283	and Saxophone (Majors)
& MUA 383	and Saxophone (Majors)
& MUA 483	and Saxophone (Majors)
MUA 184	Trumpet (Majors)
& MUA 284	and Trumpet (Majors)
& MUA 384	and Trumpet (Majors)
& MUA 484	and Trumpet (Majors)
MUA 185	French Horn (Majors)
& MUA 285	and French Horn (Majors)
& MUA 385	and French Horn (Majors)
& MUA 485	and French Horn (Majors)
MUA 186	Trombone (Majors)
& MUA 286	and Trombone (Majors)
& MUA 386	and Trombone (Majors)
& MUA 486	and Trombone (Majors)
MUA 187	Euphonium (Majors)
& MUA 287	and Euphonium (Majors)
& MUA 387	and Euphonium (Majors)
& MUA 487	and Euphonium (Majors)
MUA 188	Tuba (Majors)
& MUA 288	and Tuba (Majors)
& MUA 388	and Tuba (Majors)
& MUA 488	and Tuba (Majors)
MUA 189	Percussion (Majors)
& MUA 289	and Percussion (Majors)
& MUA 389	and Percussion (Majors)
& MUA 489	and Percussion (Majors)
MUA 190	Guitar (Majors)
& MUA 290	and Guitar (Majors)
& MUA 390	and Guitar (Majors)
& MUA 490	and Guitar (Majors)

**In addition to the principal voice, piano or other instrument, students must earn a minimum of five hours of additional study:

Voice Principal

MUA 121	Class Piano I	
MUA 122	Class Piano II	
MUA 123	Class Piano III	
MUA 124	Class Piano IV	
MUA 271	Piano (Majors)	

Piano Principal

MUE 381	Vocal Methods Lab	
MUS 335	Accompanying Class	
MUS 406	Keyboard Techniques	

Other Instrument Principal

MUE 381	Vocal Methods Lab (and four semesters of:)	1
MUA 121	Class Piano I	
MUA 122	Class Piano II	
MUA 123	Class Piano III	
MUA 124	Class Piano IV	
MUA 271	Piano (Majors)	

***Eight semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble

MUA 160	Opera Workshop
MUA 260	Opera Workshop
MUA 360	Opera Workshop
MUA 460	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 361	Opera Production
MUA 461	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music
MUA 369	Chamber Music
MUA 469	Chamber Music

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed in the major GPA. The major in music therapy requires the successful completion of the following courses outside the major:

PY 101	Intro To Psychology	3
PY 358	Abnormal Psychology	3
BSC 108	Intro Biology Non Maj I	4
BSC 109	Intro Biology Non Maj II	4

Required Minor

The music therapy major does not require the completion of a minor.

Additional Major Requirements

MUS 121 Intro To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Piano and guitar proficiencies must be passed prior to the internship. Admission to any music therapy course at the 300 level or above is contingent upon:

- the successful completion of MUS 217 Theory IV
- principal performance level at the 300 level
- a cumulative grade point average of at least 2.0
- grades of C- or higher in all previous music therapy courses or, for equivalency students, acceptance into the program; all requirements must be completed prior to enrollment in MUS 489 Music Therapy Internship

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Music Major with Arts Administration Concentration

An arts administration concentration within the baccalaureate degree program is available in the area of music. The option is designed to provide the student with a curriculum in music combined with a minor in business. The arts administration concentration prepares the student for management positions with orchestras, local and/or state arts councils, performing arts venues, artist agencies and other related positions in the music industry. The emphasis is on nonprofit organization management.

The basis for the arts administration concentration is a major in music with specified ancillary requirements and a Culverhouse College of Commerce and Business Administration minor in general business, entrepreneurship, management or world business. The remainder of the hours required for the degree includes College of Arts and Sciences requirements and electives.

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in music with an arts administration concentration must complete all University, college and departmental degree requirements. This includes the general education requirements; the following major requirements; all requirements for an approved minor in general business, entrepreneurship, management or world business; and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

All students must pass an audition and take an exam on music fundamentals in order to declare an Arts Administration major (BA). To schedule an audition, students must fill out a separate application to the School of Music, which is available online at music.ua.edu/undergraduates/auditions.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in music with the arts administration concentration requires the successful completion of the following 36 semester hours:

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 340	Intro Recording Techniq	3
MUS 365	Legal Issues in the Arts	3
MUS 496	Music Administration Internship	3-6
MUS electives 300 or 400 level *		4
MUA 010	Music Convocation (five semesters)	0
MUA applied 100 level (two semesters) **		2
MUA applied 200 level (two semesters) **		2
MUA ensembles (four semesters) ***		
Total Hours		37-40

*MUS 315 Mus Managemt Activity and MUS 490 Raising Money Dev Arts are recommended.

**Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from:

MUA 170 & MUA 270	Harp (Majors) and Harp (Majors)
MUA 171 & MUA 271	Piano (Majors) and Piano (Majors)
MUA 172 & MUA 272	Organ (Majors) and Organ (Majors)
MUA 174 & MUA 274	Voice (Majors) and Voice (Majors)
MUA 175 & MUA 275	Violin (Majors) and Violin (Majors)
MUA 176 & MUA 276	Viola (Majors) and Viola (Majors)

MUA 177 & MUA 277	Cello (Majors) and Cello (Majors)
MUA 178 & MUA 278	String Bass (Majors) and String Bass (Majors)
MUA 179 & MUA 279	Flute (Majors) and Flute (Majors)
MUA 180 & MUA 280	Oboe (Majors) and Oboe (Majors)
MUA 181 & MUA 281	Bassoon (Majors) and Bassoon (Majors)
MUA 182 & MUA 282	Clarinet (Majors) and Clarinet (Majors)
MUA 183 & MUA 283	Saxophone (Majors) and Saxophone (Majors)
MUA 184 & MUA 284	Trumpet (Majors) and Trumpet (Majors)
MUA 185 & MUA 285	French Horn (Majors) and French Horn (Majors)
MUA 186 & MUA 286	Trombone (Majors) and Trombone (Majors)
MUA 187 & MUA 287	Euphonium (Majors) and Euphonium (Majors)
MUA 188 & MUA 288	Tuba (Majors) and Tuba (Majors)
MUA 189 & MUA 289	Percussion (Majors) and Percussion (Majors)
MUA 190 & MUA 290	Guitar (Majors) and Guitar (Majors)

***Four semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 350	Symphony Orchestra
MUA 450	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 352	Wind Ensemble
MUA 452	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 353	Marching Band
MUA 453	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 354	Symphonic Band
MUA 454	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 356	Percussion Ensemble
MUA 456	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 358	Contemp Music Ensemble
MUA 458	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 359	Jazz Ensembles
MUA 459	Jazz Ensemble
MUA 160	Opera Workshop
MUA 260	Opera Workshop
MUA 360	Opera Workshop
MUA 460	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 361	Opera Production
MUA 461	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 362	University Chorus
MUA 462	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 363	University Singers
MUA 463	University Singers
MUA 166	Piano Ensemble I
MUA 266	Piano Ensemble
MUA 366	Piano Ensemble
MUA 466	Piano Ensemble
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 367	Jazz Combo
MUA 467	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music
MUA 369	Chamber Music
MUA 469	Chamber Music

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in music with the arts administration concentration requires the successful completion of 12 hours from the following courses outside the major:

ARH 252	Survey Of Art I	3
ARH 253	Survey Of Art II	3
ARH 254	Survey Of Art III	3
MUS 315	Mus Managemt Activity	2
MUS 316	Careers In Music	2
MUS 427	Studies In Special Lit	3
MUS 490	Raising Money Dev Arts	2
MUS 461	History/Literature Jazz	3
NEW 490	Special Topics (Museum Management)	3
TH 114	Intro To The Theatre	3
PHL 291	Aesthetics	3
UH 210	Honors Fine Arts	3
MUS 326	Arts Venues Management	2
MUS 407	Marketing the Arts	2

Required Minor

This major requires the completion of a minor in general business, entrepreneurship, management or world business.

Additional Major Requirements

MUS 121 Intro To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

The School of Music offers opportunities for students of all majors to perform with the bands, orchestras, choirs, and jazz and chamber groups. Annually, the school sponsors more than 200 student performances. In addition to performance opportunities, a variety of lectures, forums and conferences addressing music as an art form are sponsored each year.

Music Minor

Admission into the Minor

All students must pass an audition and take an exam on music fundamentals in order to declare a minor in music. To schedule an audition, students must fill out a separate application to the School of Music, which is available online at music.ua.edu/undergraduates/auditions.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in music requires the successful completion of the following 25 semester hours:

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 121 or	Intro To Listening	3
MUS 250	Music In World Cultures	
MUA 010	Music Convocation (four semesters)	0
MUA applied 100 level (four semesters) *		4
MUA ensembles (four semesters) **		4
Six hours of upper division (300 or 400 level) MUS electives		6
Total Hours		25

*Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from:

MUA 170 & MUA 270	Harp (Majors) and Harp (Majors)
MUA 171 & MUA 271	Piano (Majors) and Piano (Majors)
MUA 172 & MUA 272	Organ (Majors) and Organ (Majors)
MUA 174 & MUA 274	Voice (Majors) and Voice (Majors)
MUA 175 & MUA 275	Violin (Majors) and Violin (Majors)
MUA 176 & MUA 276	Viola (Majors) and Viola (Majors)
MUA 177 & MUA 277	Cello (Majors) and Cello (Majors)
MUA 178 & MUA 278	String Bass (Majors) and String Bass (Majors)
MUA 179 & MUA 279	Flute (Majors) and Flute (Majors)
MUA 180 & MUA 280	Oboe (Majors) and Oboe (Majors)
MUA 181 & MUA 281	Bassoon (Majors) and Bassoon (Majors)
MUA 182 & MUA 282	Clarinet (Majors) and Clarinet (Majors)
MUA 183 & MUA 283	Saxophone (Majors) and Saxophone (Majors)
MUA 184 & MUA 284	Trumpet (Majors) and Trumpet (Majors)
MUA 185 & MUA 285	French Horn (Majors) and French Horn (Majors)
MUA 186 & MUA 286	Trombone (Majors) and Trombone (Majors)
MUA 187 & MUA 287	Euphonium (Majors) and Euphonium (Majors)
MUA 188 & MUA 288	Tuba (Majors) and Tuba (Majors)
MUA 189 & MUA 289	Percussion (Majors) and Percussion (Majors)
MUA 190 & MUA 290	Guitar (Majors) and Guitar (Majors)

**Four semesters of ensembles should be chosen from the following courses:

MUA 150	Symphony Orchestra
MUA 250	Symphony Orchestra
MUA 152	Wind Ensemble
MUA 252	Wind Ensemble
MUA 153	Marching Band
MUA 253	Marching Band
MUA 154	Symphonic Band
MUA 254	Symphonic Band
MUA 156	Percussion Ensemble
MUA 256	Percussion Ensemble
MUA 158	Contemp Music Ensemble
MUA 258	Contemporary Ensemble
MUA 159	Jazz Ensembles
MUA 259	Jazz Ensemble
MUA 160	Opera Workshop
MUA 260	Opera Workshop
MUA 161	Opera Production
MUA 261	Opera Production
MUA 162	University Chorus
MUA 262	University Chorus
MUA 163	University Singers
MUA 263	University Singers
MUA 167	Jazz Combo
MUA 267	Jazz Combo
MUA 169	Chamber Music
MUA 269	Chamber Music

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Professor and Associate Dean

Wolfe, Thomas

Chair

Snead, Charles

Professors

Bridges, Scott.

Cary, Stephen

Engebretson, Noel

First, Craig

Fleming, Susan

Freese, Faythe

Gille, Tanya L.

McCreery, Carlton

Ozzello, Kenneth B.

Penick, Amanda

Prickett, Carol A.

Ratledge, John

Snead, Charles G.

Associate Professor

Cevasco, Andrea

Biermann, Joanna

Cummins, Linda

Hancock, Carl

Johnson, Marvin

Kozak, Christopher

McGuire, Kenneth M.

Noffsinger, Jonathan

Meggison, Shelly

Peles, Stephen V.

Schultz, Diane

Thurman, Demondrae

Assistant Professor

Caputo, Jennifer

Coleman, Randall

Dewar, Andrew

Fader, Donald

Feeney, Timothy

Fulks, Jubal

Houghtaling, Paul

Latimer, W. Marvin

Mann, Jennifer

Molina, Osiris

Pappas, Nikos

Robinson, Thomas

Sweaney, Daniel

Whitaker, Jonathan

Yates, Eric

Instructors

Chance, Kevin

Chenez, Raymond

Gordon, Pamela

Segall, Christopher

Williams, Susan

Lecturers

Alley, Robert

Gregoire, Jenny

Johnson, Michael

Kordes, Gesa

Lanter, Mark

Latimer, Marion

Parrish, Regina

Sullivan, Judith

Witt, Anne

Music Academics (MUS) Courses

MUS 115. Theory I. 4 sem. hrs.
Study of the foundations of musical materials through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the fall semester.

MUS 117. Theory II. 4 sem. hrs.
Study of the melodic and harmonic materials of the 18th and early 19th centuries through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the spring semester.

MUS 121. Intro To Listening. 3 sem. hrs.
Credit earned in this course may not be applied to a major program in the School of Music. The course presupposes no musical training on the student's part. Emphasis is on what to listen for in music.

MUS 150. Song Writing. 3 sem. hrs.
Popular/commercial song ideas will be developed by sharing, listening to, analyzing, and describing existing songs and personal compositions. Experiences will include experimenting with and improvising music and lyrics toward crafting a personal songwriting style.
Prerequisite(s): None.

MUS 155. Discover Your Inspiration. 3 sem. hrs.
Imagine if you could turn on creativity like a car: rev the engine, cruise in the fast lane and park it until you need it again. Creativity really means perspiration x inspiration. You are not born with it, you have to cultivate it. This course will give you the tools to see all the possibilities around you as you begin your studies at the University of Alabama.

MUS 161. Oboe Reedmaking. 1 sem. hr.
Independent laboratory instruction in oboe reedmaking. Up to four semesters of MUS 161 may be counted toward the degree.

MUS 164. Chamber Choir. 1 sem. hr.
Applied ensemble for singers at the freshmen level.

MUS 180. Intro Music Therapy. 2 sem. hrs.
Study of music as a human behavior and of music's use with the handicapped and those suffering from behavioral disorders.
Prerequisite(s): MUS 115
Prerequisite(s) with concurrency: MUS 115.

MUS 182. Obsrv Orient Mu Therapy. 2 sem. hrs.
Study of the functions of the music therapist with emphasis on the use of music in a therapeutic environment.
Prerequisite(s): MUS 180.

MUS 215. Theory III. 4 sem. hrs.
Study of musical materials and forms from the early to mid-19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the fall semester.

MUS 217. Theory IV. 4 sem. hrs.
Study of musical materials and forms from the mid- to late 19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the spring semester.

MUS 219. Composition I. 2 sem. hrs.
Basic techniques of musical composition.

MUS 220. Composition II. 2 sem. hrs.
A continuation of Composition I. Basic techniques of musical composition.

MUS 228. Jazz Piano Jazz Theory I. 1 sem. hr.
Introduction to theoretic principles of jazz and application on the piano, including definition and applications of chords and scales, progressions, chord substitution principles. Offered in the fall semesters of even-numbered years.

MUS 229. Jazz Piano And Theory II. 1 sem. hr.
Continuation of MUS 228. Focus on modes, synthetic scales, altered extensions, and other extended techniques of the jazz idiom. Offered in the spring semesters of odd-numbered years.

MUS 230. Improvisation I. 1 sem. hr.
Theoretical and applied study of the tonal and rhythmic elements used in developing improvisational skills in jazz, rock, and pop media. Offered in the fall semesters of odd-numbered years.

MUS 231. Improvisation II. 1 sem. hr.
Continuation of MUS 230. Designed to develop advanced improvisational skills in the jazz idiom. Offered in the spring semesters of even-numbered years.

MUS 240. Piano Pedagogy. 2 sem. hrs.
Study of teaching principles, methods, and materials; includes microteaching and observation. Offered in alternate spring semesters.

MUS 244. String Pedagogy. 2 sem. hrs.
Materials and methods for teaching string players in the early grades (both studio and class instruction). Offered according to demand.

MUS 250. Music In World Cultures. 3 sem. hrs.
Study of music in non-Western traditions (Africa, India, Japan, Indonesia, etc.).

MUS 251. Music History I. 3 sem. hrs.
History of music from the ancient Greeks through the end of the 17th century, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the fall semester.
Prerequisite(s): MUS 250.

MUS 252. Music History II. 3 sem. hrs.
History of music in the 18th and early 19th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the spring semester.
Prerequisite(s): MUS 251.

MUS 254. Diction For Singers I. 3 sem. hrs.
Introduction to the International Phonetic Alphabet; study and practice of Italian and English diction. Offered in alternate years.

MUS 255. Diction For Singers II. 3 sem. hrs.
Study and practice of German and French diction. Offered in alternate years.

MUS 280. Music Therapy Skills Repertoir. 2 sem. hrs.
The course emphasizes command of the wealth of folk, popular, and recreational music of the main segments of American culture, as well as polished singing and accompanying skills needed for competent performance.
Prerequisite(s): MUS 182 and MUA 220.

MUS 281. Music Recreation Techniques. 2 sem. hrs.
Prerequisite(s): MUS 280.

MUS 282. Music Therapy Practicum. 1 sem. hr.
Prerequisite(s): MUA 220 and MUS 182.

MUS 300. Intro Music Theory Research. 2 sem. hrs.
An introduction to scholarly research for students who plan academic careers as musical theorists.

MUS 303. 16th Cent Counterpoint. 3 sem. hrs.
Practical study, through analysis and composition, of vocal polyphony as developed in the 16th century. Offered in the fall semester.

MUS 304. 18th Cent Counterpoint. 3 sem. hrs.
The 18th-century style of counterpoint as developed by Bach. Offered in the spring semester.

MUS 307. Form And Analysis. 3 sem. hrs.
Complete survey of the forms of composition, beginning with phrase and period and covering large forms such as rondo, sonata, concerto, and fugue. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

MUS 310. Arranging. 3 sem. hrs.
Basic jazz arranging techniques for small ensembles. Offered in the fall semester.

MUS 312. Intermediate Arranging. 3 sem. hrs.
Continuation of MUS 310 (Arranging). Emphasis on writing for the big band and mixed media instrumentation, focusing on extended arranging techniques. Offered in the spring semester.

MUS 315. Mus Managemt Activity. 2 sem. hrs.
Practical consideration of all aspects of concert production and administration for musicians and music business people.

MUS 316. Careers In Music. 2 sem. hrs.
Exploration of careers in concert and commercial music for musicians and others. Offered spring semester.

MUS 319. Composition III. 3 sem. hrs.
Projects in musical composition.

MUS 320. Composition IV. 3 sem. hrs.
Projects in musical composition.

MUS 323. Music History III. 3 sem. hrs.
History of music in the 19th and 20th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): MUS 252.

MUS 324. Practical Skills and Concepts for the 21st Century Musician. 2 sem. hrs.
The Course will provide information designed to challenge (student's) concepts of change, leadership and creativity. Concepts which are 21rst century necessities. Practical steps of implementation in these 3 areas will be offered through mini-internships in the SOM . In particular through activities involving the SOM Concert Hall, Recital Hall, Music Services, The TSO, the modern applied studio, Arts Council and the Alys Stephens Center. Students will learn how to work with others; focus on the underbelly of performance ; value the necessary stream of activity needed for a successful production. Such "productions" may include developing an idea, running a meeting, producing an event or a concert, write/speak about music and the arts.

MUS 325. Orchestration I. 3 sem. hrs.
Basic instrumentation and writing for ensembles and orchestra. Offered in the fall semester of even-numbered years.

MUS 326. Arts Venues Management. 2 sem. hrs.
Through course readings, lectures, guest presentations, and hands-on experience students will learn the roles and operations of arts and music venues. This class is a combination of practical work and classroom lectures. The class will be held at several local venues, the primary one being the Tuscaloosa Amphitheater. Other venues include Tuscaloosa River Market, Mildred Westervelt Warner Transportation Museum, Bama Theatre and UA venues.
Prerequisite(s): Junior status or permission of instructor.

MUS 327. Studies Special Literat. 3 sem. hrs.
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 331. Jazz Symposium. 3 sem. hrs.

MUS 332. Experimental Music. 3 sem. hrs.
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We will begin be defining what experimental music is - what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hip, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.

MUS 333. Service Playing. 3 sem. hrs.

MUS 334. Service Playing. 3 sem. hrs.

MUS 335. Accompanying Class. 2 sem. hrs.
Survey of accompanying techniques and of the standard repertoire in the vocal, string, and wind areas. Experience is gained through assigned projects and/or assigned studio accompanying. Offered in the spring semester of even-numbered years.

MUS 340. Intro Recording Techniq. 3 sem. hrs.
Exploration of the basics of the art of sound recording. Emphasis on the mixing console, microphone placement, effects, recording basic tracks, and mixdown.

MUS 344. String Pedagogy. 2 sem. hrs.

MUS 351. Fund Of Conducting. 2 sem. hrs.
Introduction to the basic techniques of conducting with emphasis on the understanding and control of music materials. Offered in the fall semester.

MUS 364. Chamber Choir. 1 sem. hr.
Applied ensemble for singers at the junior level.

MUS 365. Legal Issues in the Arts. 3 sem. hrs.
This course will explore a broad range of legal topics pertinent to the arts, including: copyright, trademark, contracts, management of employees, union issues, advertising and 501 (c)(3) non-profit status.
Prerequisite(s): MUS 115 and MUS 117.

MUS 380. Intro Psychology Music. 3 sem. hrs.
Basic study of acoustics, the ear and hearing, and the psychosociophysiological processes involved in musical behavior.
Prerequisite(s): MUS 281 and MUA 199.

MUS 382. Music Therapy Practicum. 1 sem. hr.
Supervised music therapy experience in local facilities.

MUS 401. Film Scoring I. 3 sem. hrs.
A study of the art of scoring music for films. Emphasis will be placed on the short jingle and the technical aspects of film scoring. Offered in the fall semester.

MUS 402. Film Scoring II. 3 sem. hrs.
Continuation of MUS 401. Emphasis will be placed on writing the extended film score by analysis of psychological impact, orchestrational techniques, etc. Offered in the spring semester.

MUS 403. Advanced Counterpoint. 3 sem. hrs.
The writing of fugue, variation, ground-bass, and canon. Offered in the fall semesters of odd-numbered years.

MUS 405. Studio Tech Arrang Orchs. 3 sem. hrs.
Continued development of arranging and orchestrating techniques in both jazz and commercial settings, with an emphasis on the studio orchestra, MIDI instrumentation, and vocal groups.

MUS 406. Keyboard Techniques. 2 sem. hrs.
Applied survey of figured bass, choral open-score reading, transposition, and harmonization. Offered in the fall semesters of odd-numbered years.

MUS 407. Marketing the Arts. 2 sem. hrs.
Marketing the Arts will provide students with a general overview of communications including public relations, advertising, marketing and new media. Through readings, discussions, quizzes, an examination and a final group presentation students will develop an understanding of marketing practices involved in promoting an arts organization. Emphasis will be on not-for-profit organizations, community theatres and symphony orchestras.

MUS 412. Digtl Syn Of Elec Mus. 3 sem. hrs.
Instruction in the design and utilization of sound-generating computer programs. Offered in the fall semester of even-numbered years.

MUS 414. Tech Electronic Music II. 3 sem. hrs.
Utilization of digital synthesizers and advanced studio techniques. Offered in the spring semesters of even-numbered years.

MUS 418. Structural Analysis II. 3 sem. hrs.
Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers. Offered in the fall semesters of odd-numbered years.

MUS 419. Composition V. 3 sem. hrs.

MUS 420. Composition VI. 3 sem. hrs.

MUS 426. Analysis 20th Cent Music. 3 sem. hrs.
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 427. Studies In Special Lit. 3 sem. hrs.
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 433. Proseminar Symphonic Lit. 3 sem. hrs.
Lecture and class reports analyzing selected masterworks from the symphony, symphonic poem, and concert overture repertoire.

MUS 435. Baroque Proseminar. 3 sem. hrs.
An intensive study of the music, composers, style characteristics, theoretical and aesthetic principles, and performance practices associated with the music of the Baroque period (1600-1750) via reading, listening and musical analysis. Offered in the fall semesters of even-numbered years.

MUS 444. Vocal Pedagogy. 2 sem. hrs.
Introduction to the concepts, methods, and materials essential to effective teaching of the singing voice. Offered in alternate years.

MUS 447. Teaching Choral Music Publ Sch. 3 sem. hrs.
The scope, organization, and administration of choral programs in public schools. Includes analysis of teaching techniques and materials appropriate to specific levels of development. Offered in the fall semester.

MUS 448. Tchng Instrumental Music Pub S. 3 sem. hrs.
Problems encountered in the development of instrumental programs in public schools; analysis of beginning method books for heterogeneous and homogeneous groups; and development of a course of study to guide the new teacher. Offered in the fall semester.

MUS 461. History/Literature Jazz. 3 sem. hrs.
History of the development of jazz to the present, from its African roots to its American florescence. Particular attention is paid to early styles and forms.

MUS 471. Lit Of The Piano. 2 sem. hrs.
Survey of the important solo repertoire from Bach through Schubert. Examination of the development of keyboard technique from the time of the harpsichord through the time of the early piano. Offered in the fall semesters of even-numbered years.

MUS 472. Lit Of The Piano. 2 sem. hrs.
Survey of the important solo repertoire from the early Romantic era through the present. Examination of the development of piano technique from Chopin and Liszt through Cage and Crumb. Offered in the spring semesters of odd-numbered years.

MUS 473. String Literature. 2 sem. hrs.
Study of the standard repertoire for bowed instruments, from the Baroque period to the present.

MUS 474. Song Literature. 3 sem. hrs.
Survey of the performance criteria and historical significance of the solo song literature of the United States, the British Isles, Germany, Austria, France, and Italy. Performance and class participation are required. Offered in alternate years.

MUS 475. Song Literature. 3 sem. hrs.
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 478. Organ Literature. 2 sem. hrs.
Continuation of MUS 477. Offered in spring of odd numbered years.

MUS 480. Music in Therapy I. 3 sem. hrs.
Study of diagnostic categories, standard clinical techniques, and applications in music therapy. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 380.

MUS 481. Music Therapy II. 3 sem. hrs.
Study of etiology, literature, and uses of music in treatment.
Prerequisite(s): MUS 480.

MUS 482. Music In Therapy III. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 481.

MUS 487. Sem Prof Pract Mu Therp. 2 sem. hrs.
Study of clinical administration, supervision, ethics, and professional behavior.

MUS 488. Comp Exam Music Therapy. 0 sem. hrs.

MUS 489. Music Therapy Internship. 6 sem. hrs.

MUS 490. Raising Money Dev Arts. 2 sem. hrs.
Theories and techniques of securing funds for nonprofit organizations, including donor cultivation and grant preparation. Offered in the fall semester.

MUS 492. Choral Conducting. 2 sem. hrs.
Continuation of MUS 351 with emphasis on the problem of the choral ensemble. A study of rehearsal technique, vocal problems, diction, score analysis, style, and choral literature. Offered in the spring semester.

MUS 494. Band Conducting. 2 sem. hrs.
Continuation of MUS 351 with emphasis on the problem of the wind ensemble. A study of baton technique, score reading, rehearsal procedure, and band literature. Offered in the spring semester.

MUS 496. Music Administration Internship. 3-6 sem. hrs.
A minimum of one semester of internship with the following recommended host organizations: (1) a performing arts organization, (2) a community, state, or regional arts council, (3) a performing arts venue, (4) a musical festival or (5) a reputable recording studio. The internship must have the approval of and will be under the supervision of the Music Administration Coordinator.

MUS 497. Senior Project. 1 sem. hr.
Required of all BA students in music (music and music administration): A substantial paper on a topic approved by the faculty advisor and completed in consultation with the advisor and examined by a faculty committee. In administration: a supervised practicum arranged through the advisor.

MUS 498. Indep Research In Mus. 1-6 sem. hr.

Music, Applied (MUA) Courses

MUA 010. Music Convocation. 0 sem. hrs.

MUA 100. Class Voice Beginning. 1 sem. hr.

MUA 121. Class Piano I. 1 sem. hr.

MUA 122. Class Piano II. 1 sem. hr.

MUA 123. Class Piano III. 1 sem. hr.

MUA 124. Class Piano IV. 1 sem. hr.

MUA 129. Guitar (Non-Majors). 0.5-1 sem. hrs.

MUA 130. Harp (Non-Majors). 0.5-1 sem. hrs.

MUA 131. Piano (Non-Majors). 0.5-1 sem. hrs.

MUA 132. Organ (Non-Majors). 0.5-1 sem. hrs.

MUA 133. Harpsichord (Non-Majors). 0.5-1 sem. hrs.

MUA 134. Voice (Non-Majors). 0.5-1 sem. hrs.

MUA 135. Violin (Non-Majors). 0.5-1 sem. hrs.

MUA 136. Viola (Non-Majors). 0.5-1 sem. hrs.

MUA 137. Cello (Non-Majors). 0.5-1 sem. hrs.

MUA 138. String Bass (Non-Majors). 0.5-1 sem. hrs.

MUA 139. Flute (Non-Majors). 0.5-1 sem. hrs.

MUA 140. Oboe (Non-Majors). 0.5-1 sem. hrs.

MUA 141. Bassoon (Non-Majors). 0.5-1 sem. hrs.

MUA 142. Clarinet (Non-Majors). 0.5-1 sem. hrs.

MUA 143. Saxophone (Non-Majors). 0.5-1 sem. hrs.

MUA 144. Trumpet (Non-Majors). 0.5-1 sem. hrs.

MUA 145. French Horn (Non-Majors). 0.5-1 sem. hrs.

MUA 146. Trombone (Non-Majors). 0.5-1 sem. hrs.

MUA 147. Euphonium (Non-Majors). 0.5-1 sem. hrs.

MUA 148. Tuba (Non-Majors). 0.5-1 sem. hrs.

MUA 149. Percussion (Non-Majors). 0.5-1 sem. hrs.

MUA 150. Symphony Orchestra. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 151. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 152. Wind Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 153. Marching Band. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 154. Symphonic Band. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 155. Trombone Choir. 0-1 sem. hrs.
Applied ensemble for trombone students at the freshmen level.

MUA 156. Percussion Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 157. Campus Band. 0-1 sem. hrs.
Applied ensemble at the freshmen level.

MUA 158. Contemp Music Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 159. Jazz Ensembles. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 160. Opera Workshop. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 161. Opera Production. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 162. University Chorus. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 163. University Singers. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 164. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the freshmen level.

MUA 166. Piano Ensemble I. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 167. Jazz Combo. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 168. Alabama Women's Chorale. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 169. Chamber Music. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 170. Harp (Majors). 1-4 sem. hr.

MUA 171. Piano (Majors). 1-4 sem. hr.

MUA 172. Organ (Majors). 1-4 sem. hr.

MUA 174. Voice (Majors). 0.5-4 sem. hrs.
Voice study at the freshman and sophomore levels for music majors.

MUA 175. Violin (Majors). 1-4 sem. hr.

MUA 176. Viola (Majors). 1-4 sem. hr.

MUA 177. Cello (Majors). 1-4 sem. hr.

MUA 178. String Bass (Majors). 1-4 sem. hr.

MUA 179. Flute (Majors). 1-4 sem. hr.

MUA 180. Oboe (Majors). 1-4 sem. hr.

MUA 181. Bassoon (Majors). 1-4 sem. hr.

MUA 182. Clarinet (Majors). 1-4 sem. hr.

MUA 183. Saxophone (Majors). 1-4 sem. hr.

MUA 184. Trumpet (Majors). 1-4 sem. hr.

MUA 185. French Horn (Majors). 1-4 sem. hr.

MUA 186. Trombone (Majors). 1-4 sem. hr.

MUA 187. Euphonium (Majors). 1-4 sem. hr.

MUA 188. Tuba (Majors). 1-4 sem. hr.

MUA 189. Percussion (Majors). 1-4 sem. hr.

MUA 190. Guitar (Majors). 1-4 sem. hr.

MUA 191. Practicum Applied Music. 1-3 sem. hr.

MUA 199. Sophomore Qualifying. 0 sem. hrs.

MUA 220. Class Guitar. 1 sem. hr.
Prerequisite(s): MUS 115.

MUA 229. Guitar (Secondary). 0.5-1 sem. hrs.
Applied guitar lessons as a secondary instrument for music majors only.

MUA 231. Piano (Secondary). 0.5-1 sem. hrs.
Applied piano lessons as a secondary instrument for music majors only.

MUA 232. Organ (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 233. Harpsichord (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 234. Voice (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 235. Violin (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 236. Viola (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 237. Cello (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 238. String Bass (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 239. Flute (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 240. Oboe (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 241. Bassoon (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 242. Clarinet (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 243. Saxophone (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 244. Trumpet (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 245. French Horn (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 246. Trombone (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 247. Euphonium (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 248. Tuba (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 249. Percussion (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 250. Symphony Orchestra. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 251. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 252. Wind Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 253. Marching Band. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 254. Symphonic Band. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 255. Trombone Choir. 1 sem. hr.
Applied ensemble for trombone students at the sophomore level.

MUA 256. Percussion Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 257. Campus Band. 0-1 sem. hrs.
Applied Ensemble at the sophomore level.

MUA 258. Contemporary Ensemble. 0-1 sem. hrs.
Applied ensemble focusing on music of the 20 and 21st centuries.

MUA 259. Jazz Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 260. Opera Workshop. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 261. Opera Production. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 262. University Chorus. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 263. University Singers. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 264. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the sophomore level.

MUA 266. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the sophomore level for keyboard majors.

MUA 267. Jazz Combo. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 269. Chamber Music. 0-1 sem. hrs.
Sophomore level small ensemble.

MUA 270. Harp (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 271. Piano (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 272. Organ (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 273. Harpsichord (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 274. Voice (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 275. Violin (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 276. Viola (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 277. Cello (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 278. String Bass (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 279. Flute (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 280. Oboe (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 281. Bassoon (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 282. Clarinet (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 283. Saxophone (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 284. Trumpet (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 285. French Horn (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 286. Trombone (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 287. Euphonium (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 288. Tuba (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 289. Percussion (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 290. Guitar (Majors). 1-4 sem. hr.
Applied study at the sophomore level for music majors.

MUA 299. Piano Proficiency. 0 sem. hrs.

MUA 331. Piano II (Secondary). 0.5-1 sem. hrs.
Secondary applied piano study for music education students in the third and fourth semester of piano.
Prerequisite(s): MUA 231.

MUA 334. Voice II (Secondary). 0.5-1 sem. hrs.
Secondary applied voice for music majors in the third and fourth semesters of taking the course.
Prerequisite(s): MUA 234.

MUA 350. Symphony Orchestra. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 351. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 352. Wind Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 353. Marching Band. 0-1 sem. hrs.
Marching Band at the junior level.

MUA 354. Symphonic Band. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 355. Trombone Choir. 0-1 sem. hrs.
Applied ensemble for trombone students at the junior level.

MUA 356. Percussion Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 357. Campus Band. 0-1 sem. hrs.
Applied ensemble at the Junior level.

MUA 358. Contemp Music Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 359. Jazz Ensembles. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 360. Opera Workshop. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 361. Opera Production. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 362. University Chorus. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 363. University Singers. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 364. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the junior level.

MUA 366. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the junior level for keyboard majors.

MUA 367. Jazz Combo. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 369. Chamber Music. 0-1 sem. hrs.
Applied ensemble in a small chamber group.

MUA 370. Harp (Majors). 0.5-4 sem. hrs.

MUA 371. Piano (Majors). 0.5-4 sem. hrs.

MUA 372. Organ (Majors). 0.5-4 sem. hrs.

MUA 374. Voice (Majors). 0.5-4 sem. hrs.

MUA 375. Violin (Majors). 0.5-4 sem. hrs.

MUA 376. Viola (Majors). 0.5-4 sem. hrs.

MUA 377. Cello (Majors). 0.5-4 sem. hrs.

MUA 378. String Bass (Majors). 0.5-4 sem. hrs.

MUA 379. Flute (Majors). 0.5-4 sem. hrs.

MUA 380. Oboe (Majors). 0.5-4 sem. hrs.

MUA 381. Bassoon (Majors). 0.5-4 sem. hrs.

MUA 382. Clarinet (Majors). 0.5-4 sem. hrs.

MUA 383. Saxophone (Majors). 0.5-4 sem. hrs.

MUA 384. Trumpet (Majors). 0.5-4 sem. hrs.

MUA 385. French Horn (Majors). 0.5-4 sem. hrs.

MUA 386. Trombone (Majors). 0.5-4 sem. hrs.

MUA 387. Euphonium (Majors). 0.5-4 sem. hrs.

MUA 388. Tuba (Majors). 0.5-4 sem. hrs.

MUA 389. Percussion (Majors). 0.5-4 sem. hrs.

MUA 390. Guitar (Majors). 0.5-4 sem. hrs.

MUA 391. Practicum Applied Music. 1-3 sem. hr.

MUA 399. Junior Recital. 1 sem. hr.

MUA 450. Symphony Orchestra. 0-1 sem. hrs.
Senior level ensemble.

MUA 451. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 452. Wind Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 453. Marching Band. 0-1 sem. hrs.
Senior level ensemble.

MUA 454. Symphonic Band. 0-1 sem. hrs.
Senior level ensemble.

MUA 455. Trombone Choir. 1 sem. hr.
Applied ensemble for trombone students at the Senior level.

MUA 456. Percussion Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 457. Campus Band. 0-1 sem. hrs.
Applied ensemble at the Senior level.

MUA 458. Contemporary Ensemble. 0-1 sem. hrs.
Applied ensemble at the senior level focusing on music of the 20th and 21st centuries.

MUA 459. Jazz Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 460. Opera Workshop. 0-1 sem. hrs.
Senior level ensemble.

MUA 461. Opera Production. 0-1 sem. hrs.
Senior level ensemble.

MUA 462. University Chorus. 0-1 sem. hrs.
Senior level ensemble.

MUA 463. University Singers. 0-1 sem. hrs.
Senior level ensemble.

MUA 464. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singer at the senior level.

MUA 466. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the senior level for keyboard majors.

MUA 467. Jazz Combo. 0-1 sem. hrs.
Senior level ensemble.

MUA 469. Chamber Music. 0-1 sem. hrs.
Senior level small ensemble.

MUA 471. Piano (Majors). 0.5-4 sem. hrs.
Senior level applied piano study for music majors.
Prerequisite(s): MUA 371.

MUA 472. Organ (Majors). 0.5-4 sem. hrs.
Senior level applied organ study for music majors.
Prerequisite(s): MUA 372.

MUA 473. Harpsichord (Majors). 0.5-4 sem. hrs.
Senior level applied harpsichord study for music majors.

MUA 474. Voice (Majors). 0.5-4 sem. hrs.
Senior level applied voice study for music majors.
Prerequisite(s): MUA 374.

MUA 475. Violin (Majors). 0.5-4 sem. hrs.
Senior level applied violin study for music majors.
Prerequisite(s): MUA 375.

MUA 476. Viola (Majors). 0.5-4 sem. hrs.
Senior level applied viola study for music majors.
Prerequisite(s): MUA 376.

MUA 477. Cello (Majors). 0.5-4 sem. hrs.
Senior level applied cello study for music majors.
Prerequisite(s): MUA 377.

MUA 478. Sting Bass (Majors). 0.5-4 sem. hrs.
Senior level applied string bass study for music majors.
Prerequisite(s): MUA 378.

MUA 479. Flute (Majors). 0.5-4 sem. hrs.
Senior level applied fluted study for music majors.
Prerequisite(s): MUA 379.

MUA 480. Oboe (Majors). 0.5-4 sem. hrs.
Senior level applied oboe study for music majors.
Prerequisite(s): MUA 380.

MUA 481. Bassoon (Majors). 0.5-4 sem. hrs.
Senior level applied bassoon study for music majors.
Prerequisite(s): MUA 381.

MUA 482. Clarinet (Majors). 0.5-4 sem. hrs.
Senior level applied clarinet study for music majors.
Prerequisite(s): MUA 382.

MUA 483. Saxophone (Majors). 0.5-4 sem. hrs.
Senior level applied saxophone study for music majors.
Prerequisite(s): MUA 383.

MUA 484. Trumpet (Majors). 0.5-4 sem. hrs.
Senior level applied trumpet study for music majors.
Prerequisite(s): MUA 384.

MUA 485. French Horn (Majors). 0.5-4 sem. hrs.
Senior level applied french horn study for music majors.
Prerequisite(s): MUA 385.

MUA 486. Trombone (Majors). 0.5-4 sem. hrs.
Senior level applied trombone study for music majors.
Prerequisite(s): MUA 386.

MUA 487. Euphonium (Majors). 0.5-4 sem. hrs.
Senior level applied euphonium study for music majors.
Prerequisite(s): MUA 387.

MUA 488. Tuba (Majors). 0.5-4 sem. hrs.
Senior level applied tuba study for music majors.
Prerequisite(s): MUA 388.

MUA 489. Percussion (Majors). 0.5-4 sem. hrs.
Senior level applied percussion study for music majors.
Prerequisite(s): MUA 389.

MUA 490. Guitar (Majors). 1-4 sem. hr.
Senior level of applied guitar study for music majors.
Prerequisite(s): MUA 390.

MUA 499. Senior Recital. 1 sem. hr.

Department of Theatre and Dance

The Department of Theatre and Dance offers a bachelor of arts (BA) degree in theatre and in dance, as well as a minor in theatre.

Theatre Major

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in theatre must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in theatre requires the successful completion of the following 36 semester hours:

		Hours
TH 141	Acting I	3
TH 220 or	Fundamental Stage Scenery	3
TH 231	Costume Construction I	
TH 291	Practicum I	1
TH 361 or	Beginning Directing	3
TH 470	Theatre Management	
TH 391	Practicum II	1
TH 451	Hist Of The Theatre I	3
TH 452	History Of The Theatre II	3
TH 491	Practicum III	1
TH electives 300-400 level		1
TH electives		17
Total Hours		36

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The theatre major does not require ancillary courses (for exceptions, see Theatre Major: Musical Theatre Track section of this catalog).

Required Minor

The theatre major requires the completion of a minor (for exceptions, see Theatre Major: Musical Theatre Track section of this catalog).

Additional Major Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

The Department of Theatre and Dance offers various programs of study leading to the BA degree in theatre. These program areas include acting, musical theatre, theatre management and administration, scene design and technical production, and costume design and production. Please see the principal advisor in each of these areas for entrance requirements and a suggested course of study.

The highly-motivated student who seeks to be well prepared for either the profession or graduate education may choose to take more hours in the major than the specified 36. This plan of action is highly desirable and strongly advised, but is not required. If more than 42 hours are accrued in the major, the student will be exceeding the 120 credit hour requirement for graduation by the number of hours taken over the single subject 42 semester hour limit.

Theatre Major: Musical Theatre Track

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in theatre must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in theatre requires the successful completion of the following 36 semester hours:

		Hours
TH 141	Acting I	3
TH 165	Musicianship Theatre Perform I	3
TH 166	Musicianship Theatre Perf II	3
TH 220 or	Fundamental Stage Scenery	3
TH 231	Costume Construction I	
TH 291	Practicum I	1
TH 361 or	Beginning Directing	3
TH 470	Theatre Management	
TH 391	Practicum II	1
TH 451	Hist Of The Theatre I	3
TH 452	History Of The Theatre II	3
TH 465	Musical Theatre Performance I	3
TH 466	Musical Theatre Performance II	3
TH 491	Practicum III	1
TH electives		6
Total Hours		36

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in theatre following the musical theatre track requires the successful completion of the following courses outside the major:

DN 210	Dance Styles II	3
DN 310	Dance Styles III	3
3 additional DN hours 300-400 level *		3
9 additional DN hours 100-400 level *		9
4 hours from the following courses:		4
THMT 174	Freshman Musical Theatre Voice	
THMT 274	Sophomore MTVoice	
THMT 374	Junior Musical Theatre Voice	
THMT 474	Senior MTVoice	
MUA 174	Voice (Majors)	
MUA 274	Voice (Majors)	
MUA 374	Voice (Majors)	
MUA 474	Voice (Majors)	
2 additional hours from the following courses:		2
THMT 374	Junior Musical Theatre Voice	
THMT 474	Senior MTVoice	
MUA 374	Voice (Majors)	
MUA 474	Voice (Majors)	
Total Hours		24

*To be chosen from the following technique courses (completion of additional hours of dance technique is highly recommended):

DN 101	Beginning Ballet	2
DN 110	Intro To Dance Styles	2
DN 111	Modern Dance Technique I	3
DN 121	Ballet Technique I-A	3
DN 122	Ballet Technique I-B	3
DN 142	World Dance	2
DN 151	Jazz Technique I	3
DN 200	Special Topics	3
DN 210	Dance Styles II	3
DN 211	Modern Dance II-A	3
DN 212	Modern Dance II-B	3
DN 221	Ballet Technique II-A	3
DN 222	Ballet Technique II-B	3
DN 251	Jazz Technique II-A	3

DN 252	Jazz Technique II-B	3
DN 300	Special Topics	3
DN 301	Special Topics II	1-3
DN 310	Dance Styles III	3
DN 311	Modern Dance Technique III-A	3
DN 312	Modern Dance Technique III-B	3
DN 321	Ballet Technique III-A	3
DN 322	Ballet Technique III-B	3
DN 351	Jazz Technique III-A	3
DN 352	Jazz Technique III-B	3
DN 400	Special Topics	3
DN 410	Advanced Tap Technique	3
DN 411	Modern Dance Technique IV-A	3
DN 412	Modern Dance Technique IV-B	3
DN 421	Ballet Technique IV-A	3
DN 422	Ballet Technique IV-B	3
DN 451	Jazz Technique IV-A	3
DN 452	Jazz Technique IV-B	3
KIN 121	Beginning Social Dance	1

**Completion of two additional hours of MUA 374 Voice (Majors) is highly recommended.

Required Minor

The theatre major following the musical theatre track does not require the completion of a minor.

Additional Major Requirements

The musical theatre track is designed for students preparing for professional careers or graduate study in musical theatre. Admission is by audition, and students are expected to show continued progress in acting, singing and dance. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Additional Recommendations

The Department of Theatre and Dance recommends that students in the musical theatre track also consider the following courses: TH 230 Stage Makeup, TH 241 Beg Voice Speech Perform or TH 446 Adv Voice Speech Perform, TH 242 Acting II Intro to Scene Stud, TH 441 Acting III: Advanced Scene Study, TH 442 Careers In Prof Theatre, TH 444 Acting IV Period Acting Styles, TH 445 Acting IV Period Actng Styles, TH 447 Stage Dialects, and TH 467 Musicl Theatre Repertoire Coac.

Special Opportunities

The Department of Theatre and Dance offers various programs of study leading to the BA degree in theatre. These program areas include acting, musical theatre, theatre management and administration, scene design and technical production, and costume design and production. Please see the principal adviser in each of these areas for entrance requirements and a suggested course of study.

The highly-motivated student who seeks to be well prepared for either the profession or graduate education may choose to take more hours in the major than the specified 36. This plan of action is highly desirable and strongly advised, but is not required. If more than 42 hours are accrued in the major, the student will be exceeding the 120 credit hour requirement for graduation by the number of hours taken over the single subject 42 semester hour limit.

Dance Major

Degree Requirements

Students earning the bachelor of arts (BA) degree with a major in dance must complete all University, college and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Admission into the Major

Admission to the dance major is by audition only. For information on the audition process, contact The University of Alabama, Department of Theatre and Dance, Box 870239, Tuscaloosa, AL 35487-0239; or visit as.ua.edu/theatre. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Major Courses

The major in dance requires the successful completion of the following 30 semester hours:

		Hours
Select two of the following:		6
DN 121	Ballet Technique I-A	
DN 122	Ballet Technique I-B	
DN 221	Ballet Technique II-A	
DN 222	Ballet Technique II-B	
DN 211 or	Modern Dance II-A	3
DN 212	Modern Dance II-B	
DN 251 or	Jazz Technique II-A	3
DN 252	Jazz Technique II-B	
DN courses at 300/400 level		12
DN or DNCA electives *		6
Total Hours		30

*Excluding DNCA courses counted for ancillary requirement.

Upper-level Residency

A minimum of 12 hours in 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in dance requires the successful completion of the following course outside the major:

DNCA 240	Choreography I	3
DNCA 265	Anatomy For Dance	3
DNCA 470	History Of Dance I	3
DNCA 471	History of Dance II	3
TH 324	Lighting and Sound for Dance	3

Required Minor

This major requires the completion of a minor. A minor in theatre or business is recommended.

Additional Major Requirements

Dance majors must reach a proficiency level of 300 in the major technique (modern, ballet or jazz) and 200 in the secondary technique (modern, ballet or jazz) before graduation. Dance majors must participate in all program auditions. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Special Opportunities

The dance program, accredited by the National Association of Schools of Dance (NASD), adheres to professional standards for technique in classical ballet and modern and jazz dance. The department presents two dance concerts each semester: the Alabama Repertory Dance Theatre (ARDT) and Dance Alabama! concerts. Alabama Repertory Dance Theatre is the pre-professional student dance company that performs classical repertoire as well as contemporary and jazz choreography. Acceptance into the company is by audition only. Dance Alabama! concerts are comprised of student works that are chosen by dance faculty adjudication. Dance Alabama! is a theatrical venue designed to showcase serious choreography that is conceptually original, technically proficient and well crafted. Participation in ARDT and Dance Alabama! is open to dance majors and non-majors. Dance students who excel in dance and academics are also eligible for acceptance into the national dance honor society, Nu Delta Alpha.

Theatre Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The theatre minor requires the successful completion of the following 21 semester hours:

		Hours
TH 291	Practicum I	1
TH electives 300 or 400 level		6
TH electives		14
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. If necessary, students may consult with the minor department academic adviser for questions concerning minor requirements.

Faculty

Professor and Chair

Teague, William

Professor

Carter, Cornelius

Associate Professors

Barry, Sarah M.

Burch, Steven

Crystal, Raphael

Fitch, Thomas A.

Hetzel, Allison B.

Meester, Donna

Panitch, Seth

Snyder, Rita M.

Assistant Professors

Alley, Stacy

deCelle, F. Randy

Guo, Qianping

Herring, Emily

Martin, William

Instructor

Virciglio, John

Dance Academics (DNCA) Courses

DNCA 240. Choreography I. 3 sem. hrs.
Basic exploration of the rhythmic and spatial elements in the development of movement phrases and choreographic dance studies.

DNCA 265. Anatomy For Dance. 3 sem. hrs.
Lecture/studio course covering the basics of the musculoskeletal system and dance kinesiology.

DNCA 340. Choreography II. 3 sem. hrs.
Exploration in more complex choreographic forms and compositions.
Prerequisite(s): DNCA 240 or DN 240.

DNCA 403. Approach Dance Instructn. 3 sem. hrs.
A course developing techniques for teaching of ballet, modern, and jazz dance styles.
Prerequisite(s): DNCA 265 or DN 265.

DNCA 440. Choreography III. 3 sem. hrs.
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.
Prerequisite(s): DNCA 340 or DN 340; and TH 324.

DNCA 470. History Of Dance I. 3 sem. hrs.
The history of dance from pre-classic, romantic, classical and early modern ballet.

DNCA 471. History of Dance II. 3 sem. hrs.
The history of dance with an emphasis on 20th century and contemporary dance styles.
Prerequisite(s): DNCA 470.

Dance (DN) Courses

DN 101. Beginning Ballet. 2 sem. hrs.
A studio course in classical ballet at the beginning level.

DN 110. Intro To Dance Styles. 2 sem. hrs.
Introduction to ballet, modern, and jazz dance through theory and practice at the beginning level.

DN 111. Modern Dance Technique I. 3 sem. hrs.
This course will introduce the basics of modern dance techniques.

DN 121. Ballet Technique I-A. 3 sem. hrs.
A studio course in classical ballet for first year dance majors or musical theatre majors. Offered in the fall semester.

DN 122. Ballet Technique I-B. 3 sem. hrs.
The development of theory and practice of classical ballet for first year dance majors or students with some previous experience in ballet.

DN 142. World Dance. 2 sem. hrs.
An introduction to dance movement as influenced by various cultures.

DN 151. Jazz Technique I. 3 sem. hrs.
Introduction to jazz dance technique and style through dance studio work.

DN 200. Special Topics. 3 sem. hrs.
Investigation of dance theories and principles.

DN 210. Dance Styles II. 3 sem. hrs.
This course will include study of various dance styles at the intermediate level. The styles will represent dance forms from theatrical productions. May be repeated for a maximum of 6 hours. Musical Theatre majors only or permission of the instructor.

DN 211. Modern Dance II-A. 3 sem. hrs.
A studio course in modern dance techniques at the intermediate level.

DN 212. Modern Dance II-B. 3 sem. hrs.
A studio course in modern dance technique at the advanced intermediate level.

DN 221. Ballet Technique II-A. 3 sem. hrs.
Development of classical ballet technique, and performance quality at the intermediate level for dance majors.
Prerequisite(s): DN 121 or DN 122.

DN 222. Ballet Technique II-B. 3 sem. hrs.
Development of the classical theory and practice of ballet, at the intermediate level.
Prerequisite(s): DN 221.

DN 251. Jazz Technique II-A. 3 sem. hrs.
A studio course in jazz dance technique at the intermediate level.

DN 252. Jazz Technique II-B. 3 sem. hrs.
A studio course in jazz dance technique at a more advanced intermediate level.

DN 300. Special Topics. 1-3 sem. hr.
Study of dance theories and principles for performance,choreography or pedagogy. Permission of instructor.

DN 301. Special Topics II. 1-3 sem. hr.
This course will focus on one area of dance such as technique, repertoire, composition or pedagogy in order to facilitate a more advanced analysis of that specific area.

DN 310. Dance Styles III. 3 sem. hrs.
A studio course in various dance styles used for concert dance or theatrical productions. For Musical Theatre majors. May be repeated for a maximum of 6 hours.
Prerequisite(s): DN 210.

DN 311. Modern Dance Technique III-A. 3 sem. hrs.
Development of modern dance technique at the advanced level.
Prerequisite(s): DN 211 or DN 212.

DN 312. Modern Dance Technique III-B. 3 sem. hrs.
Development of advanced modern dance technique, preparing the student for pre-professional work.
Prerequisite(s): DN 211 or DN 212.

DN 321. Ballet Technique III-A. 3 sem. hrs.
Advanced ballet technique including ladies' pointe work and men's technique.

DN 322. Ballet Technique III-B. 3 sem. hrs.
Continuation of advanced ballet technique including ladies' pointe work and men's technique.

DN 351. Jazz Technique III-A. 3 sem. hrs.
This course will cover jazz dance technique at a more advanced level. this class will focus on technique in order to prepare the student for higher level jazz classes that emphasize performance elements.
Prerequisite(s): DN 251 or DN 252.

DN 352. Jazz Technique III-B. 3 sem. hrs.
Development of advanced jazz dance technique preparing the student for professional work.
Prerequisite(s): DN 251 or DN 252.

DN 380. Independent Study In Dance. 3 sem. hrs.

DN 381. Indep Study In Dance. 3 sem. hrs.

DN 400. Special Topics. 3 sem. hrs.
Prepare dancers for a professional career in dance performance through the rehearsal process of learning and performing, ballet, modern and jazz dance repertoire.

DN 410. Advanced Tap Technique. 3 sem. hrs.
An advanced course focusing on tap dance language and the execution of advanced tap technique.
Prerequisite(s): DN 210 and DN 310.

DN 411. Modern Dance Technique IV-A. 3 sem. hrs.
Continued development of modern dance technique at the advanced level.
Prerequisite(s): DN 311 or DN 312.

DN 412. Modern Dance Technique IV-B. 3 sem. hrs.
Continued development of advanced modern dance technique, preparing the student for professional work.
Prerequisite(s): DN 311 or DN 312.

DN 421. Ballet Technique IV-A. 3 sem. hrs.
Advanced ballet technique including rehearsal and performance of ballet variations in preparation for professional work.
Prerequisite(s): DN 321 or DN 322.

DN 422. Ballet Technique IV-B. 3 sem. hrs.
Continued development of ballet technique and variations preparing the student for professional work.
Prerequisite(s): DN 321 or DN 322.

DN 440. Choreography III. 3 sem. hrs.
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.
Prerequisite(s): DN 340 and TH 290 and TH 324.

DN 451. Jazz Technique IV-A. 3 sem. hrs.
This course is jazz dance technique at the advanced/pre-professional level. Will focus on elements of technique and style for concert, commercial, and musical theatre jazz. Special attention will be given to developing performance qualities.
Prerequisite(s): DN 352 and DN 351.

DN 452. Jazz Technique IV-B. 3 sem. hrs.
Advanced jazz dance technique preparing the student for professional work.
Prerequisite(s): DN 352.

Theatre-Muscial Theatre (THMT) Courses

THMT 174. Freshman Musical Theatre Voice. 0.5-2 sem. hrs.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

THMT 274. Sophomore MTVoice. 1-2 sem. hr.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 174 or TH 174.

THMT 374. Junior Musical Theatre Voice. 0.5-2 sem. hrs.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 174 or TH 174.

THMT 474. Senior MTVoice. 1-2 sem. hr.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 374 or TH 374.

Theatre (TH) Courses

TH 113. Voice And Diction. 3 sem. hrs.
Credit for this course will not be awarded to students majoring or minoring in theatre. A beginning course designed to assist the student in improving use of his or her voice and speech. Offered each semester and in the summer session.

TH 114. Intro To The Theatre. 3 sem. hrs.
Introduction to the theatre through the study of plays, stage histories, practitioners, elements of theatre and production techniques.***This course does not count toward the theatre major.

TH 115. Beginning Acting. 3 sem. hrs.
Credit for this course will not be awarded to students majoring or minoring in theatre. Training in the basic elements of the actor's craft. Additional hours in related theatre activities may be required.

TH 120. Principles Of Stage Design. 3 sem. hrs.
An introduction to the various areas of theatrical design and technology, including but not limited to scenery, costumes, lighting, sound, and makeup.

TH 140. Stage Movement I. 3 sem. hrs.
Course in the use of the actor's body as an expressive tool; body/spatial/sensory awareness; structure and alignment; and stage presence and gesture.

TH 141. Acting I. 3 sem. hrs.
The course is designed to introduce the beginning student to the art and craft of acting.

TH 165. Musicianship Theatre Perform I. 3 sem. hrs.
A course in basic musical theatre skills, including sight-singing, playing keyboard instruments, singing in harmony, phonetic transcription, and audition techniques. May be repeated for a maximum of 6 hours.

TH 166. Musicianship Theatre Perf II. 3 sem. hrs.
A continuation of TH 165, featuring more advanced work in sight-singing, keyboard, ensemble singing, and audition techniques. May be repeated for a maximum of 6 hours.
Prerequisite(s): TH 165.

TH 175. The Singing Voice. 2 sem. hrs.
The class is designed to introduce students to basic concepts of vocal technique and musicianship through practical application.

TH 220. Fundamental Stage Scenery. 3 sem. hrs.
Required lab. Survey of the techniques for building, rigging, and painting scenery for various forms of production. Emphasis is on scenery for the stage.

TH 230. Stage Makeup. 2 sem. hrs.
Required lab. Principles of and practical work in all types of stage makeup.

TH 231. Costume Construction I. 3 sem. hrs.
A studio course in basic patterning, cutting, and construction techniques. Additional hours in related theatre activities may be required.

TH 233. Beginning Costume Design. 3 sem. hrs.
An introductory course implementing the principles of design as related to costumes.
Prerequisite(s): TH 120.

TH 240. Stage Movement II. 3 sem. hrs.
Prerequisite(s): TH 140.

TH 241. Beg Voice Speech Perform. 3 sem. hrs.
A beginning course in the proper use of the vocal instrument for performance.

TH 242. Acting II Intro to Scene Stud. 3 sem. hrs.
Majors- only advanced acting course. An in depth study of various techniques used to explore an acting scene in performance: advanced personalization, intense experiential analysis of emotional and intellectual transitions in a text, and specific physical and musical improvisations, which combine to form the basis of a “Simulated Experience” of the character. Students will explore works from the Realistic Period as well as modern texts, in order to develop a personal technique applicable to any material the actor might encounter, both classical and contemporary.
Prerequisite(s): TH 141.

TH 245. Tch Theatre: Performance. 3 sem. hrs.
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include acting, directing, choosing plays for production, and rehearsal techniques.

TH 246. Tch Theatre: Play Prodcn. 3 sem. hrs.
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include speech, dramatic literature, children’s drama, costuming, scenery and playwriting.

TH 290. Theatre Practicum. 1 sem. hr.
Participation in University Theatre productions. Assignments in scenery, lighting, properties, sound, costuming, publicity, rehearsal and performance, etc. (Maximum 2 hours).

TH 291. Practicum I. 1 sem. hr.
Participation in University Theatre productions through a rotation of assignments in the scene shop, costume shop, box office, deck crews, and performance.

TH 320. Intermed Tech Productn. 3 sem. hrs.
Study of the planning and execution of scenery through analysis of production-related problems dealing with the technical design of rigging and construction.
Prerequisite(s): TH 220.

TH 322. Fund Of Stage Lighting. 3 sem. hrs.
Required lab. Survey of materials and techniques employed in executing stage lighting for both the legitimate stage and television.
Prerequisite(s): TH 120 or TH 220.

TH 324. Lighting and Sound for Dance. 3 sem. hrs.
A technical production course specifically for dance majors covering the practical aspects of theatre technology.

TH 351. American Music Theatre History. 3 sem. hrs.
This course provides you with a review of the historical genres, circumstances and catalogue of material that developed the american musical theatre from its ministrel beginnings to the multi-million dollar spectacles of today.

TH 361. Beginning Directing. 3 sem. hrs.
Study of the principles and techniques of directing plays. Additional hours of related theatre activities are required.
Prerequisite(s): TH 141 and TH 120 or TH 220.

TH 365. Stage Management. 3 sem. hrs.
The study of the professional stage manager’s process: preparing and running rehearsal and performance, conflict resolution, and general responsibilities as defined by Actor’s Equity Association. Required production element outside of class.
Prerequisite(s): TH 141 and TH 120 or TH 220.

TH 375. The Singing Voice - Intermediate. 2 sem. hrs.
This class is designed to further students’ understanding of basic concepts of vocal technique and musicianship through practical application. Students will discuss various topics related to singing and will further explore those topics through performance. Students will give four solo performances over the course of the semester per the schedule listed below.
Prerequisite(s): TH 175.

TH 390. Theatre Practicum II. 1 sem. hr.
Participation in University theatre productions. Assignments in scenery, costumes, lighting, sound, management, rehearsal, performance, etc.
Prerequisite(s): TH 290.

TH 391. Practicum II. 1 sem. hr.
Participation in University Theatre production in the area[s] of your preference (availability permitting). Opportunities in scenery, lighting, properties, sound, costuming, publicity, musical theatre, stage management, and performance, etc.
Prerequisite(s): TH 291.

TH 415. Properties Construction. 3 sem. hrs.
A studio course introducing the multitude of techniques used by the props artisan to create hand props, furniture, and other set dressings.
Prerequisite(s): TH 120 or TH 220.

TH 420. Technical Direction. 3 sem. hrs.
This course will provide students with an overview of the technical design, construction techniques, and the administrative and management functions that are a part of the field of technical direction.
Prerequisite(s): TH 220 and TH 423.

TH 421. Period Decor. 3 sem. hrs.
Survey of period architecture and ornament as they apply in research for productions.
Prerequisite(s): TH 120 or TH 220.

TH 422. Scene Design. 3 sem. hrs.
A studio course exploring the process and techniques of scene design. Students will design three to five plays.
Prerequisite(s): TH 120 or TH 220 or TH 423.

TH 423. Drafting For Theatre. 3 sem. hrs.
A studio course exploring traditional and computer based techniques of technical drafting as applied to the theatre. Skills learned will include orthographic and isometric projections, ground plans, sections, perspective drawing, and layout.
Prerequisite(s): TH 120 or TH 220.

TH 424. Adv Scene Design. 3 sem. hrs.
A studio course in drafting, drawing, and painting techniques for the stage designer.
Prerequisite(s): TH 120 or TH 220.

TH 425. Scene Painting. 3 sem. hrs.
A studio course in the materials and techniques for painting stage scenery and properties. A materials fee is required.
Prerequisite(s): TH 120 or TH 220.

TH 426. Sound Prod Tech Th Dn. 3 sem. hrs.
The course provides the student with a working knowledge of sound production. It emphasizes the creation of sound tapes for theatre and dance, and the setup and maintenance of sound reproduction and modification equipment.

TH 427. Computer Graphics For Theatre. 3 sem. hrs.
A studio course exploring the creation of technical drawings through Computer Aided Drafting. Skills learned will include commands for drawing, layout of information, and other CAD techniques.
Prerequisite(s): TH 120 or TH 220.

TH 430. Hy Costume For Stage. 3 sem. hrs.
Historical study of dress in relation to costuming for the stage.
Prerequisite(s): TH 120 or TH 220.

TH 432. Costume Constructn II. 3 sem. hrs.
A studio course in advanced costume construction techniques and/or costume crafts. Topics may include tailoring, corsetry, millinery, armor, wigs, masks, and jewelry. May be repeated for credit.

TH 433. Costume Design I. 3 sem. hrs.
A studio course in costume design, principles, and presentation.
Prerequisite(s): TH 120.

TH 434. Costume Design II. 3 sem. hrs.
Continued, advanced study of the material in TH 433. Projects address specific problems in design.
Prerequisite(s): TH 433.

TH 435. Presentation for Designers. 3 sem. hrs.
Preparation of "hard," digital and web-based portfolio presentations. Also included is information on presentation in a professional setting, such as a job interview or adjudication.

TH 436. Fabric Modification. 3 sem. hrs.
Course Description: This course explores and introduces a variety of techniques in which to modify the original appearance and/or intent of fibres and fabrics. This is done through the use of various dyes/techniques, surface treatment, use of non-traditional materials and restructuring of fabrics.

TH 437. Drawing for Stage Designs. 3 sem. hrs.

TH 438. Tailoring Techniques for Thtre. 3 sem. hrs.
Prerequisite(s): TH 432 or TH 231.

TH 439. Advanced Stage Makeup. 3 sem. hrs.
A studio course using a variety of materials in the art of mask making, hair ventilating, and prosthetics.
Prerequisite(s): TH 230.

TH 440. Stage Movement III. 3 sem. hrs.
Advanced theory and practice of specific stage movement, such as clowning, mask, stage combat, mime, etc. May be repeated for a maximum of 6 hours for differing topics.
Prerequisite(s): TH 240.

TH 441. Acting III: Advanced Scene Study. 3 sem. hrs.
Thorough exploration of character study, script analysis, and scene work for the actor.
Prerequisite(s): TH 242.

TH 442. Careers In Prof Theatre. 3 sem. hrs.
The course focuses on audition and interview techniques, the union, and resume writing and other skills required to apply for positions in the academic and professional theatre.
Prerequisite(s): TH 441.

TH 444. Acting IV Period Acting Styles. 3 sem. hrs.
Study and practice of acting styles from 1850 to the present, concentrating on classical comedy, high comedy, and acting for the camera.
Prerequisite(s): TH 441.

TH 445. Acting IV Period Actng Styles. 3 sem. hrs.
Study and practice of acting in verse drama, concentrating on Shakespeare's works.
Prerequisite(s): TH 441.

TH 446. Adv Voice Speech Perform. 3 sem. hrs.
Intensive exercises and practice for acquiring acceptable use of voice and speech for performance.
Prerequisite(s): TH 241.

TH 447. Stage Dialects. 3 sem. hrs.
Study of stage dialects for the performer. Offered in alternate years.
Prerequisite(s): TH 446 and TH 446.

TH 451. Hist Of The Theatre I. 3 sem. hrs.
Prerequisite(s): TH 120 or TH 220.

TH 452. History Of The Theatre II. 3 sem. hrs.
Prerequisite(s): TH 120 or TH 220.

TH 453. European Th Hy Sc 1850. 3 sem. hrs.
Explores the European sources, including plays, essays, technologies, and theory, of the modern and postmodern theatre.
Prerequisite(s): TH 120 or TH 220.

TH 458. American Feminist Theatre. 3 sem. hrs.
Survey of dramas, performances, criticism and theory since 1900 in American Theatre.
Prerequisite(s): TH 120 and TH 220.

TH 465. Musical Theatre Performance I. 3 sem. hrs.
A course in musical theatre scene study, in which acting, singing, and movement skills are blended in the performance of songs and scenes.
Prerequisite(s): TH 166.

TH 466. Musical Theatre Performance II. 3 sem. hrs.
A special topics course exploring such areas as musical theatre history, cabaret performance, in-depth study of a single work, etc.
Prerequisite(s): TH 465.

TH 467. Musicl Theatre Repertoire Coac. 0.5-2 sem. hrs.
Individual coaching in musical repertoire, musical and dramatic performance techniques, and skills crucial to learning and rehearsing new material.
Prerequisite(s): TH 166 and THMT 174, TH 174, or MUA 174.

TH 470. Theatre Management. 3 sem. hrs.
This course will provide students with an overview of the administrative and management functions in the theatre industry, both not-for-profit organizations, as well as the commercial theatre industry.
Prerequisite(s): TH 120 or TH 220.

TH 482. Playwriting I. 3 sem. hrs.
The course introduces the fundamentals of writing for the stage. Practical instruction in playwriting includes an opportunity to write a one-act play.
Prerequisite(s): TH 120 or TH 220.

TH 491. Practicum III. 1 sem. hr.
Participation in University Theatre production through performance and design/ leadership assignments in scenery, lighting, properties, sound, costuming, publicity, musical theatre, and stage management, theatre management,etc.
Prerequisite(s): TH 391.

TH 499. Independent Study. 1-4 sem. hr.

Culverhouse College of Commerce and Business Administration

History and Objectives

The Culverhouse College of Commerce and Business Administration (C&BA) is the longest-standing business school in Alabama and one of the premier programs in the South. The College has earned national recognition for excellence in business education and is accredited by the Association to Advance Collegiate Schools of Business–International (AACSB). An outstanding faculty helps maintain this tradition of excellence by continuously making advancements in academic programs using technologically advanced classrooms, laboratories and library facilities.

Lee Bidgood, the first dean of the College, launched the School of Commerce in 1919. Dean Bidgood oversaw the development of the College, including construction of the Commerce Building (now known as Bidgood Hall), which was completed in 1929. Bidgood Hall has further developed to become a central part of the technologically integrated three-building business complex in the central University campus.

The College offers degree programs at the bachelor's, master's and doctoral levels. The mission of the Culverhouse College of Commerce and Business Administration is to excel in the creation and application of general and discipline-based business knowledge. We are committed to providing the educational and enrichment experiences expected of a major, full-time residential state university.

Degrees and Programs Offered

The Culverhouse College of Commerce and Business Administration offers one undergraduate degree, the bachelor of science in commerce and business administration (BSCBA). The Manderson Graduate School of Business offers the following degrees: master of business administration (MBA), master of arts (MA), master of science (MS), master of accountancy (MAcc), master of tax accounting (MTA) and doctor of philosophy (PhD).

Undergraduate students in commerce and business administration may major in accounting, economics, finance, general business, management, management information systems, marketing or operations management. Students in business may complete more than one major, including a non-business major, a non-business minor and a specialization in a particular business field.

Admission Requirements

Admission as a Freshman Student

A student who meets the criteria for admission to The University of Alabama as a freshman is eligible for admission to the Culverhouse College of Commerce and Business Administration as a lower-division student with the intent to major in one of eight different major programs. Specific information about these criteria is available from The University of Alabama Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; (205) 348-5666 or toll-free 1-800-933-BAMA in the continental United States.

Admission as a Transfer Student

A student seeking to transfer into the Culverhouse College of Commerce and Business Administration from another institution must have an official transcript sent directly to the UA Office of Undergraduate Admissions (see address in preceding paragraph) from each college or university previously attended. For admission to the University and to the College, the student is required to have a minimum grade point average of C (2.0 on a 4.0 scale) for all college-level work attempted. For direct admission to the College's upper division, a GPA of at least 2.5 is required for all majors except the general business major, which requires a GPA of 2.0 or above. Transferred credit hours will be applied as appropriate to a student's degree program. The authority to apply or to deny transferred credit rests with the College.

Transfers from Two-Year Colleges

Undergraduate business programs in this catalog require 120 semester hours for the bachelor's degree. At most, 50 percent of those hours may be taken at two-year colleges and applied toward graduation requirements. Therefore, the maximum number of two-year college hours applicable to a degree in the Culverhouse College of Commerce and Business Administration is 60 hours.

Only courses that are equivalent to those numbered 100 or 200 at the University (freshman- and sophomore-level courses) may be transferred to C&BA from junior colleges. Junior college transfer students may transfer courses equivalent to the following:

- the College's general education requirements
- restricted and unrestricted electives
- the University's sophomore-level courses that satisfy the business administration functional field requirements (i.e., AC 210 Intro To Accounting, ST 260 Statistical Data Analysis and LGS 200 Legal Environmt Business)

All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama.

Transfers from Senior Colleges and Universities

Courses transferred from institutions accredited by the AACSB will be accepted within the broad limits of the College and the University graduation requirements. Students seeking to transfer credit from institutions not accredited by the AACSB, or by a regional or national accrediting agency, may be granted transfer credit on a provisional basis. Provisional credit may be validated by completing 30 semester hours in residence with a C average or better. Consult the C&BA Registrar or the UA Office of Undergraduate Admissions for more information.

A maximum of six semester hours of professional courses taken at another institution may be applied toward a student's major program requirements. Approval is required from the head of the department in which the student expects to earn a degree. All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama. All coursework required in the major program of the Culverhouse School of Accountancy must be done in residence.

Transfers from Other Divisions of The University of Alabama

Students who wish to transfer from one division of the University to another should consult staff members in the student services office of the division into which they intend to transfer. Students are encouraged to contact the new division in advance of the semester in which they intend to transfer. Students will need information about the procedures involved in transferring, as well as the applicability of previous and present coursework to the new division's requirements.

Students with Bachelor's Degrees

Students who have completed an undergraduate degree and wish to complete a second degree in business must meet the requirements described for business majors in this catalog. A minimum of 30 hours of coursework beyond the first degree is required to earn a second bachelor's degree. For more information, students should consult with an academic adviser in the A.H. Bean Undergraduate Student Services Center in 10 Bidgood Hall.

Admission to the College's Upper Division

Business students are required to apply for admission to the upper division of the College and to a major program. Application for admission to the upper division and to a major program must be made upon completion of a set of specific requirements outlined below.

Entering freshman students will be designated LAC, LEC, LFI, LMGT, LMKT, LMIS, LOM or LGB depending on their intended major. All lower-division students are administratively housed in the College, and they receive academic advising in the A.H. Bean Undergraduate Student Services Center in 10 Bidgood Hall.

Requirements

Students are eligible for admission to the upper division and to a major program—and are therefore entitled to enroll in 300- and 400-level business courses—only if they meet the following standards:

- Students must have earned a minimum of 60 hours of credit. Students may apply for admission to the upper division either in the semester during which junior standing will be achieved or after junior standing has been achieved. Credit earned by such means as Advanced Placement (AP), CLEP or departmental placement is counted toward the 60-hour requirement. Students who have completed coursework at another institution and wish to have that work applied to the 60-hour requirement must see to it that transcripts from the other institution(s) are forwarded as soon as possible to The University of Alabama. All hours completed that are not officially transferred to the student's University of Alabama record cannot be included in the calculation of the 60-hour requirement. Courses (and hours) in which a student has earned a grade of Incomplete (I) cannot be included in the calculation of the 60-hour requirement until the grade has officially been changed to a passing grade.

- Students must have completed the following required courses with grades of C- or higher:

EC 110	Principles of Microeconomics	3
EC 111	Principles of Macroeconomics	3
EN 101	English Composition	3
EN 102	English Composition	3
MATH 121	Calculus & Applications	3
MATH 125	Calculus I	4
ST 260	Statistical Data Analysis	3
AC 210	Intro To Accounting	4
LGS 200	Legal Environmt Business	3

- Students have a maximum of **three attempts** at completing each of these courses with a grade of C- or higher. If the third attempt is unsuccessful, the student may petition the assistant dean for undergraduate programs for another chance to pass the course, or the student may change to another division within the University.

The remaining hours applied toward the 60-hour requirement should consist of courses required in The University of Alabama Core Curriculum and must include courses in the following categories:

- at least four hours of natural science
- at least three hours of fine arts, literature or humanities
- at least three hours of history or social and behavioral sciences (in addition to EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics)

Except for the general business major, which requires a minimum grade point average of 2.0, students admitted to the upper division of the College and approved to begin C&BA coursework at the 300- and 400-level are required to have a GPA of at least 2.5 for all college-level coursework attempted, and they must have a minimum GPA of 2.5 for all University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the assistant dean of undergraduate programs for admission to the upper division if the student's GPA for the last 30 hours attempted at The University of Alabama is at least 2.5. These admission standards have been established by the C&BA faculty and are subject to change.

If a student wishes to change majors once he or she has been admitted to the upper division, a current minimum GPA of 2.5 is required to change to any major except General Business.

Students majoring in management information systems are required to complete CS 120 Business Programming I, CS 220 Business Programming II and MIS 295 Business Analysis Project Mgt.

Students specializing in quantitative finance or quantitative economics are required to complete MATH 125 Calculus I, MATH 126 Calculus II and MATH 227 Calculus III.

Applying for Admission to the Upper Division

Students seeking admission to the College's upper division should apply in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. The application should be submitted to the student's academic adviser during a scheduled advising session. Business students will not be permitted to enroll in upper-division courses unless they have applied and been admitted to the upper division. Students who have completed all requirements for admission to the upper division, but have failed to complete the required application for admission, will be barred from enrolling in upper-level courses until they have met with an adviser to verify their eligibility. Application deadlines are as follows:

1. A student who wishes to apply for admission to the upper division and to a major program, and who wishes to begin taking junior-level and major courses during the Interim term, summer session or fall semester, should apply by March 15 preceding those terms.
2. Qualified new transfer students and returning students who meet the criteria as a result of attending summer school should apply no later than July 15 for fall semester admission.
3. A student who expects to begin upper-level work in the spring semester should apply no later than October 15.

Students who are applying for admission to the upper division at the midpoint of a semester will be applying based on coursework they expect to complete during that semester. A decision concerning admission will be conditional until the successful completion of coursework produces the required cumulative hours and grade point average. Admission will be revoked should a student fail to achieve the required grade point average or complete the required courses and hours in which he or she is enrolled during the semester in which application is made.

Students who attempt to enroll in 300- or 400-level courses in violation of any of these policies will be administratively disenrolled from courses for which they are not eligible.

Non-Business Majors in Upper-Level C&BA Courses

Students from other divisions of the University may enroll in 300- and 400-level C&BA courses, subject to the following conditions:

1. Students must have achieved junior standing, defined as a minimum of 60 earned credit hours. Economics majors and economics minors in the College of Arts and Sciences may enroll in 300-level economics (EC) courses prior to achieving junior standing.
2. Students must have earned credit for course-specific prerequisites the courses in which they wish to enroll.
3. The total number of hours in C&BA coursework for which a non-business major can enroll may not exceed 30 semester hours (excluding EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics and ST 260 Statistical Data Analysis) without approval from the associate dean for undergraduate programs.

Students who attempt to enroll in 300- or 400-level C&BA courses in violation of any of these policies will be administratively disenrolled from courses for which they are not eligible.

General Degree Requirements and Academic Policies

The requirements specified in this catalog are intended for all students who begin their college careers during or after the fall of 2013. Students who have begun their careers prior to fall 2013 may choose to complete the requirements outlined in this catalog, but if they do so, they must complete all of the requirements listed here. Students may not choose some requirements from this catalog and some from previous catalogs.

Student Responsibilities

- Each student is responsible for selecting courses that will allow him or her to make reasonable progress toward a degree in the College. An appointment with an adviser in the A.H. Bean Undergraduate Student Services Center to develop a long-term academic plan is strongly encouraged.
- Each student is responsible for following University and College policies appearing in official documents, including those on the University and College websites, that govern academic programs, curricula, courses and completion of degrees.
- Each student is expected to pursue successful completion of all courses in which he or she enrolls.
- Each student is expected to maintain a current and accurate mailing address, email address and phone number with the A.H. Bean Undergraduate Student Services Center, and to respond promptly to all communications from the University and the College.
- Each student is expected to be familiar with the current academic calendar.

Maximum Class Hour Load Per Semester

Entering freshman students may enroll in a maximum of 16 semester hours during the first semester in residence. Continuing students may register for a maximum of 16 semester hours during the fall and spring semesters and a maximum of 14 semester hours during the summer session without special permission.

Students must register for a minimum of 12 semester hours in order to be classified as full-time students. Students who wish to take less than a full-time load must secure permission from the Associate Dean of Undergraduate Programs.

Auditing Courses

Students may register for courses as auditors with the approval of the departments offering the courses. The deadline for registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester. Consult the College Registrar for more information.

The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. Audited courses do not count toward degree requirements.

Online Courses

C&BA students may enroll in online courses through the College of Continuing Studies. An online course with the same course number as a regularly scheduled on-campus course fulfills the same degree requirements as an on-campus course. Further information about online courses is available through the College of Continuing Studies.

Pass/Fail Option

The University and the Culverhouse College of Commerce and Business Administration offer students the opportunity to pursue courses on a pass/fail basis as a means of encouraging students to broaden their interests and learning experiences beyond their business specializations. To register for a course on a pass/fail basis, a student must gain approval in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. The deadline for registering for a course on a pass/fail basis coincides with the deadline for adding courses at the beginning of each semester.

The College Registrar is responsible for determining that each student requesting the pass/fail option meets the following criteria:

1. The student must have attained sophomore standing (a minimum of 30 hours earned).*
2. If the student is a transfer student, he or she must have earned 15 hours or more in residence, maintaining a grade point average of at least 2.0 in residence.*
3. The student must have an overall grade point average of 2.0 or higher.
4. The course the student wishes to take on a pass/fail basis must be a non-commerce elective. Business courses (required or elective) may not be taken on a pass/fail basis except in the case of courses that are offered only as pass/fail courses.
5. Courses that will be used to satisfy University of Alabama Core Curriculum requirements may not be taken on a pass/fail basis.
6. The student may take a maximum of four courses (or 12 hours) of coursework on a pass/fail basis while earning an undergraduate degree.
7. The student may take no more than one course per semester on a pass/fail basis.
8. Business students will not be allowed to register for courses on a pass/fail basis after the deadline for adding courses, and once the option is selected it may not be rescinded.

*Several specialized courses offered only on a pass/fail basis may be taken in the freshman year or the first semester in residence (for transfer students). Consult the C&BA Student Services Office for further information.

Policy on Repeating Courses

A course may be repeated, but the record of both the original and the repeat enrollment will appear on the student's transcript. Both attempts will be counted as hours attempted, but only the second attempt will count as hours earned for the degree. If the course is passed on the first attempt, but failed on the second attempt, the student will not earn credit for the course toward a degree.

The MIS Program and the Culverhouse School of Accountancy have their own rules for repeating courses required in their majors. Consult the MIS Program and the Culverhouse School of Accountancy for more information.

Policy on Mathematics Courses

The analysis of many business problems calls for mathematical reasoning. Students should take the highest-level mathematics sequence for which they are eligible. The MATH 112 Precalculus Algebra and MATH 121 Calculus & Applications sequence provides the minimum skills for pursuing an undergraduate business degree, but this is not a substitute for MATH 125 Calculus I. Any sequence that includes MATH 125 Calculus I is preferable to the MATH 112 Precalculus Algebra and MATH 121 Calculus & Applications sequence. Those students who are interested in graduate study or in working in technical positions should choose a course of study that will lead to at least partial completion of the standard calculus sequence: MATH 125 Calculus I, MATH 126 Calculus II and MATH 227 Calculus III.

Below are specific rules that govern mathematics requirements for Commerce and Business Administration students:

1. Once a student has earned credit for MATH 112 Precalculus Algebra and/or MATH 121 Calculus & Applications or MATH 125 Calculus I, the student may not earn credit, including CLEP, for lower-numbered mathematics courses.
2. The College will not grant degree credit for any mathematics course numbered lower than MATH 100 Intermediate Algebra at The University of Alabama.
3. The College will not grant degree credit for any mathematics course offered for transfer credit from a junior college which is titled, or has the substance of, "business mathematics" or "mathematics for finance."

Selecting a Major

Eligible students should complete major declaration forms in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. Students who intend to major in accounting or management information systems must apply to the respective departments.

A student who is admitted to the upper division but is not yet ready to declare a major must change from lower-division status (see Admission to the College's Upper Division section under the Admission Requirements (p.) tab of this section of the catalog) to General Business status until he or she is ready to select a major program. Students who need information to enable them to select majors appropriate to their academic and career interests should consult with faculty advisers in the respective departments or with the staff of the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

If a student wishes to change majors after admission to the upper division, a current minimum GPA of 2.5 is required to change to any major except General Business.

Department and Program Requirements

A total of 120 hours, distributed as follows, are required for the degree of bachelor of science in commerce and business administration:

General Education Courses

EC 110	Principles of Microeconomics	3
EC 111	Principles of Macroeconomics	3
EN 101	English Composition	3
EN 102	English Composition	3
MATH 121 or	Calculus & Applications [1]	3
MATH 125	Calculus I	
ST 260	Statistical Data Analysis	3

Natural Science: eight hours designated N, including at least two hours of laboratory experience.

Humanities and Fine Arts: 12 hours total; at least three hours of Literature* (designated L) and at least three hours of Fine Arts (designated FA). The remaining six hours may be chosen from either Humanities (designated HU), Literature or Fine Arts. *Every student must complete a six-hour sequence in either Literature or History.

History and Social/Behavioral Sciences: 12 hours total; at least three hours in History* (designated HI) and at least six hours chosen from other disciplines in the social and behavioral sciences (designated SB). EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics (required above) satisfy six hours of this requirement. *Every student must complete a six-hour sequence in either Literature or History.

Foreign Language or Computer Language: Two semesters (six to eight hours) of foreign language credit (designated FL) or two semesters of C-designated computer language courses (six hours). This requirement will be satisfied by completing ST 260 Statistical Data Analysis and one additional C-designated course; some majors require a specific course to complete this requirement. See departmental sections for details. [2]

Lower Division Functional Field Courses

AC 210	Intro To Accounting	4
LGS 200	Legal Environmt Business	3

[1] Students with the required high-school units in mathematics are classified by means of standardized placement tests; only those with satisfactory placement test scores are admitted to MATH 112 Precalculus Algebra. Students who do not make satisfactory scores should complete MATH 100 Intermediate Algebra before taking MATH 112 Precalculus Algebra. MATH 100 Intermediate Algebra may be counted toward the degree as a non-commerce elective. In certain cases, students with very weak backgrounds in mathematics may be required to complete MATH 005 Introductory Algebra, which is a noncredit course. Students who concentrate in quantitative finance are required to complete MATH 112 Precalculus Algebra or MATH 115 Precalc Algebra & Trig, MATH 125 Calculus I, and MATH 126 Calculus II. Other majors require students to complete MATH 112 Precalculus Algebra and MATH 121 Calculus & Applications, or MATH 115 Precalc Algebra & Trig and MATH 125 Calculus I. MATH 125 Calculus I and MATH 126 Calculus II are four-hour courses.

[2] Students must complete two semesters (six to eight hours) of a foreign language designated FL or earn equivalent credit by examination; or they must earn six semester hours in C-designated courses. Foreign language courses must be selected from non-commerce electives taken to meet the general education requirements. Students enrolling in C courses are expected to have basic computer application skills. Students lacking these skills, as determined by university policy, will be required to take a course or courses designed to develop the required skills. Credit for the course(s) will count as part of the students' electives.

Upper Division

Applicants for the upper division in the Culverhouse College of Commerce and Business Administration must complete at least 60 semester hours prior to admission into the upper division. The 60 hours should be chosen from the requirements listed above and must include degree credits for EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics; MATH 121 Calculus & Applications or MATH 125 Calculus I; EN 101 English Composition and EN 102 English Composition; AC 210 Intro To Accounting; ST 260 Statistical Data Analysis; and LGS 200 Legal Environmt Business (or their equivalents). Additionally, at least four hours of natural science, three hours of fine arts, literature or humanities, and three hours of history or social and behavioral sciences. Failure to earn degree credit for these specific courses and to earn at least 60 semester hours in all will make students ineligible for admission to the upper division and for enrollment in 300- and 400-level C&BA courses.

Upper Division Functional Field Courses

FI 302	Business Finance	3
GBA 300	Business Communications	3
GBA 490	Strategic Management	3
MGT 300	Org Theory & Behavior	3
MKT 300	Marketing	3
OM 300	Intro Operations Management	3

Major Program Courses: 18 hours; see departmental listings for specific requirements in each major.

Electives: 22-33 hours; GBA 145 Freshman Compass: CBA is highly recommended for students who enter the College as freshmen.

All business students are required to take at least one course that has an international focus. The course can be selected from courses in international business or from approved courses with international content in other colleges. Students should consult with their advisor for a list of approved courses.

Some departments may specify some of the elective courses. Consult your major department for further information.

Suggested Courses for Freshman and Sophomore Years

The following suggested course sequences for freshman and sophomore (lower-division) students are intended to assist students in planning their schedules to include the required pre-business coursework. Academic advisoers for C&BA students are available in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

Suggested Course Sequence for Students Placed into MATH 100

Freshman

Fall	Hours	Spring	Hours
EN 101	3	EC 110	3
GBA 145	1	EN 102	3
MATH 100	3	MATH 112	3
Core Fine Arts	3	Core Natural Science	4
Core History	3	Free Elective (or MIS 200 for General Business majors)	3
Core Humanities or Fine Arts	3		
	16		**16**

Sophomore

Fall	Hours	Spring	Hours
EC 111	3	AC 210	4
MATH 121 or 125	3	LGS 200	3
Core History or SB Science	3	ST 260	3
Core Literature	3	Free elective	3
Core Natural Science	4	Core Literature, Humanities, or Fine Arts	3
	16		**16**

Total Hours: 64

Suggested Course Sequence for Students Placed into MATH 112

Freshman

Fall	Hours	Spring	Hours
EC 110	3	EC 111	3
EN 101	3	EN 102	3
GBA 145	1	MATH 121 or 125	3
MATH 112	3	Free Elective (or MIS 200 for General Business majors)	3
Core Fine Arts	3	Core Natural Science	4
Core History	3		
	16		**16**

Sophomore

Fall	Hours	Spring	Hours
ST 260	3	AC 210	4
Core History or SB Science	3	LGS 200	3
Core Humanities or Fine Arts	3	Free Electives	6
Core Literature	3	Core Literature, Humanities, or Fine Arts	3
Core Natural Science	4		
	16		**16**

Total Hours: 64

Major Programs

The following majors are offered in the College of Commerce and Business Administration. Each major requires 18 hours of coursework:

- Accounting
- Economics
- Finance
- General Business
- Management
- Management Information Systems
- Marketing
- Operations Management

In addition to the requirements for the major, students are encouraged to complete a second major, specialization in business, and/or a major or minor outside of business. Students should consult with their advisors and major departments about approved courses of study. Some majors require specializations.

Curriculum VII - For College Graduates

The business curriculum for college graduates is available to those who hold baccalaureate degrees from regionally accredited institutions in any recognized field of study other than business and who have a grade point average of at least 2.5 for all college-level coursework attempted and at least a 2.5 GPA for all University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the assistant dean for undergraduate programs for admission if the student's GPA is at least 2.5 or above for the last 30 hours of coursework attempted. Curriculum VII leads to the bachelor of science in commerce and business administration degree, following completion of the undergraduate work outlined below. Curriculum VII is for the college graduate who wants a professional degree in commerce and business administration on the undergraduate level. At least 30 semester hours of study in residence in the College of Commerce and Business Administration are required.

In addition to the 2.5 GPA requirement, the prerequisites for Curriculum VII include completion of the requirements for the Alabama Statewide General Studies Core Curriculum in natural science, fine arts, literature and humanities, history, social and behavioral sciences, and the University of Alabama Core Curriculum requirement in computer science or foreign language. Students must complete AC 210 Intro To Accounting, CS 102 Microcomputer Applications, EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics, LGS 200 Legal Environmt Business, MATH 121 Calculus & Applications and ST 260 Statistical Data Analysis (or their equivalents) with grades of C- or higher. Any of this coursework completed in pursuit of the first bachelor's degree will apply to the second degree under Curriculum VII. These prerequisites must be completed before Curriculum VII students can enroll in 300- or 400-level C&BA courses. Failure to complete the

prerequisites will result in administrative disenrollment from 300- or 400-level C&BA courses. The course requirements of Curriculum VII follow.

Curriculum VII Course Requirements		Hours
Lower Division Requirements		22
AC 210	Intro To Accounting	
CS 102	Microcomputer Applications	
EC 110	Principles of Microeconomics	
EC 111	Principles of Macroeconomics	
LGS 200	Legal Environmt Business	
MATH 121	Calculus & Applications	
ST 260	Statistical Data Analysis	
Business Administration Functional Field Courses		
FI 302	Business Finance	
GBA 300	Business Communications	
GBA 490	Strategic Management	
MGT 300	Org Theory & Behavior	
MKT 300	Marketing	
OM 300	Intro Operations Management	
Major Program Courses		18
Specialization (if required)		0-15
Total Hours		40-55

University Scholars Programs

The University Scholars program allows students to pursue graduate and undergraduate degrees concurrently. These programs are available in several business disciplines and serve students who have exceptional ability. Students should contact their major department for details.

Specializations

Each academic department offers specializations within the department's subject areas. Students should consult with their adviser and major department about current offerings and requirements, as these are subject to change. Students must meet all course-specific prerequisites for each course in a specialization, and must meet the requirements for admission to the upper division of the College in order to take 300- and 400-level courses.

Courses from a major program cannot be used to satisfy specialization requirements unless otherwise noted, or unless permission is granted by the department chair.

Some specializations are restricted to certain majors, and some are prohibited for other majors. See the description of each specialization for details.

A minimum GPA of 2.0 for all required courses in a specialization is necessary for the specialization to be awarded.

Culverhouse School of Accountancy

- Accounting (for non-majors)
- Professional Accounting

Economics, Finance and Legal Studies

- Economics
  - Applied Microeconomics
  - Economics (for non-majors)
  - Econometrics & Forecasting
  - International Economics
  - Macroeconomic & Monetary Policy
  - Public Policy & Law
  - Quantitative Economics
- Finance
  - Actuarial Science
  - Banking & Financial Services
  - Finance (for non-majors)
  - Financial Management
  - Insurance & Financial Services: Risk Management
  - International Finance
  - Investment Management
  - Personal Wealth Management
  - Quantitative Finance
  - Real Estate

Information Systems, Statistics and Management Science

- Management Information Systems
  - Business Information Technology
  - e-Decision Support
- Operations Management
  - Production Management
  - Supply Chain Management
- Statistics
  - Business Intelligence

Management and Marketing

- Management
  - Entrepreneurship
  - Health Care Management
  - Human Resources
  - Management Communication
- Marketing
  - Global Business
  - Professional Sales
  - Services Marketing

Business Certificates

Certificate in Ethics and Social Responsibility

Students in business are encouraged to complete a Certificate in Ethics and Social Responsibility, which will be recognized on their transcripts. Goals of the program are to increase students' abilities to recognize moral dilemmas and exercise moral decision-making abilities and to develop insights into contemporary ethical issues faced by individuals and organizations. In addition, a goal of the program is to focus campus attention on the importance of addressing ethical issues and creating graduates who will be recognized for having formally addressed these issues.

Requirements

1. One course with a primary ethics and social responsibility focus (recommended: PHL 292 Introduction to Ethics or MGT 341 Business Ethics).
2. One course in service learning (click here for a list), or participation in the Moral Forum.
3. Participation in three activities or events with approved ethics and social responsibility content. These events would include presentations on relevant subjects and discussion sessions covering readings or other assignments. At least one event should be held each semester.

Analytical Excellence Certificate in Business

Taking the classes required for the Analytical Excellence Certificate in Business will give students the best possible background for graduate work in business or for work in the most technically demanding areas. This program allows talented students to utilize the math skills they acquired in high school and to develop quantitative skills equivalent to those developed by engineering graduates. In addition, the designation allows them to signal to employers and others that they have completed a special curriculum. The required courses include the regular calculus sequence. After completing the calculus sequence, students in the program have the choice of several additional classes to complete the program. Students who complete this program will be excellent candidates to enroll in the best graduate business programs in the country.

A cumulative UA GPA of 3.5 at graduation is required to complete this certificate.

Required Courses		Hours
MATH 125	Calculus I	4
MATH 126	Calculus II	4
MATH 227	Calculus III	4
Choose three of the following:		9
MATH 237	Introduction to Linear Algebra	
MATH 238	Appld Diff Equations I	
ST 454 or	Mathematical Statistics I	
MATH 355	Theory Of Probability	
ST 455 or	Mathematical Statistics II	
MATH 451	Math Stats W/Applictn I	
EC 413	Economic Forecast & Analysis	

EC 471	Econometrics	
ST 450	Stat Methods In Res I	
ST 451	Stat Methods In Res II	
MATH 422	Mathematics For Finance I	
MKT 473	Marketing Research	
Total Hours		21

Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Commerce and Business Administration may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student's dean is required.

Except for the general business minor, which requires a minimum grade point average of 2.0, non-business majors admitted to a business minor must have a GPAs of 2.5 or higher for all college-level and University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's GPA for the last 30 hours attempted is at least 2.5. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's GPA subsequently falls below a 2.5, provided all other enrollment requirements are met. All 300- or 400-level courses in the minor must be taken in residence at UA, unless permission is given by a C&BA department chair to transfer a course from another four-year institution.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours of C&BA courses (excluding EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics and ST 260 Statistical Data Analysis) without approval of the associate dean for undergraduate programs. Failure to comply with these policies will result in administrative disenrollment from C&BA courses.

Students are responsible for ensuring that they have met all University,C ollege, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Entrepreneurship

		Hours
EC 110	Principles of Microeconomics	3
AC 210	Intro To Accounting	4
MGT 300	Org Theory & Behavior	3
MGT 386	Foundations of Entrepreneurshi	3
MGT 482	New Venture Development	3
Choose one of the following:		3
MKT 321	Retail Management	
MKT 410	Managing Innovation	
or C&BA course approved by dept.		
Total Hours		19

General Business

		Hours
AC 210	Intro To Accounting	4
EC 110	Principles of Microeconomics	3
ST 260	Statistical Data Analysis	3
Choose three of the following (two must be 300-level or above):		9
FI 302	Business Finance	
LGS 200	Legal Environmt Business	
MGT 300	Org Theory & Behavior	
MIS 200	Fundamentals Mgt Info Systems	
MKT 300	Marketing	
OM 300	Intro Operations Management	
Total Hours		19

Management

		Hours
AC 210	Intro To Accounting	4
MGT 300	Org Theory & Behavior	3
MGT 301	Intro Human Resource Mgt	3
MGT 320	Leadership	3
MGT 386	Foundations of Entrepreneurshi	3
Choose two of the following:		6
IBA 351	Multinatl Business Communctn	
MGT 341	Business Ethics	
MGT 420	Organizational Change	
MGT 421	Corporate Entp. & Innovation	
Total Hours		22

World Business

		Hours
AC 210	Intro To Accounting	4
IBA 350	Intro World Business	3
IBA 455	Global Marketing	3
MKT 300	Marketing	3
PSC 434	Internatl Polit Econom	3
Choose two of the following:		6
IBA 351	Multinatl Business Communctn	
IBA 460	Export/Import Management	
EC 430	International Trade	
EC 431	International Finance	
EC 442	Economic Development of Latin America	
EC 453	Comparative Economic Systems	
Total Hours		22

Double Major in Business and Foreign Language

The modern business environment is truly global, and the double major provides students the training necessary to succeed in that environment. The double-major student completes a C&BA major program, as well as a second major in French, German or Spanish. The result is a superior skill set derived from cutting-edge business training and thorough study of a language and the culture associated with it. Such a program creates students who are technically proficient, culturally sensitive and flexible enough to deal with the business challenges of the future.

Foreign Language Courses for Double Majors

In addition to the requirements for a major in business, students must complete the requirements in a foreign language described in the following sections. Students should consult with the C&BA Registrar about current requirements for dual-degree programs (as opposed to double majors).

C&BA Second Major in French

		Hours
FR 201	Intermediate French	3
FR 202	Intermediate French	3
FR 321	Voices In French	3
FR 323	Text, Image, And Word	3
FR 324	Commercial French	3
Choose two of the following:		6
FR 331	French Civilization	
FR 361	Intro Romance Linguistic (Same as IT 361 and SP 361)	
FR 431	Contemp French Civiliztn	
FR 461	French Linguistics	
FR 470	Undergrad Sem In French (topic appropriate)	
FR 480	Special Topics	
Choose two of the following:		6
FR 341	Survey Fr Literature I	
FR 351	Survey Fr Literature II	
FR 470	Undergrad Sem In French (topic appropriate)	
FR 480	Special Topics	
Other French literature course		

FR 300/400-level electives	6
Total Hours	33

C&BA Second Major in German

		Hours
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN 361	Interm Convers Comp I	3
GN 365	Business German	3
GN 371	German Culture and Civilization Thru 1832	3
GN 372	Germn Cult Civ 1832-Present	3
GN 403 & GN 404	Undergraduate Seminar and Undergraduate Seminar	6
or GN 404 and an additional GN literature course		
GN electives (GN 450 Intermediate Business German highly recommended)		9
Total Hours		33

C&BA Second Major in Spanish

		Hours
SP 201	Intermediate Spanish	3
SP 202	Intermediate Spanish	3
SP 353	Spanish Conversation	3
SP 356	Adv Grammar And Compos	3
SP 360	Commercial Spanish	3
SP 364	Spanish Civilization	3
SP 366	Spanish-American Civ	3
Choose two of the following:		6
SP 371	Survey Of Spanish Lit	
SP 372	Survey Of Spanish Lit	
SP 375	Masterpc Sp-Amer Lit I	
SP 376	Masterpc Sp-Amer Lit II	
Spanish electives (300/400-level)		6
Total Hours		33

Faculty

Dean

J. Michael Hardin

Senior Associate Dean for Academic Programs

Diane E. Johnson

Associate Dean of Undergraduate Programs

David J. Heggem Jr.

Associate Dean for Assessment

Kim Sydow Campbell

Associate Dean for Graduate Programs

J. Brian Gray

Assistant Dean for Faculty and Graduate Student Development

Gary A. Hoover

Associate Dean for International Programs

R. Glenn Richey

Associate Dean for Research

Samuel Addy

Registrar

Daniel L. Maguire

Accountancy (AC) Courses

AC 210. Intro To Accounting. 4 sem. hrs.
Introduction to accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions. Students who intend to major in accounting should take AC 289 before or concurrently with AC 210.
Prerequisite(s): EC 110.

AC 289. Computer Applications. 3 sem. hrs.
Introduction to information technology and computer applications in business. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 114 or CBH 101.

AC 310. Finan Report Analy Bus Activ I. 3 sem. hrs.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 311. Fin Report Analy Bus Activ II. 3 sem. hrs.
Prerequisite(s): AC 310.

AC 334. Introduction to Fraud Risk Management. 3 sem. hrs.
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, detection, and follow-up.
Prerequisite(s): AC 210.

AC 351. Managerl Acctg Decisions. 3 sem. hrs.
Study of managerial accounting concepts and their use in business decisions. Not open to accounting majors.
Prerequisite(s): AC 210 or AC 201 and AC 202.

AC 352. Corporate Financl Report. 3 sem. hrs.
Study of financial accounting concepts and their use in analyzing and interpreting financial reports. Not open to accounting majors.
Prerequisite(s): AC 210 or AC 201 and AC 202.

AC 361. Cost Analysis Plang & Control. 3 sem. hrs.
A study of the theory and application of accounting for measuring the economic attributes of the firm's operations. The course examines the measurement, analysis, and interpretation of accounting information for planning and controlling a firm's business-related activities.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 371. Introduction To Taxation. 3 sem. hrs.
Introduction to tax policy, planning, practice, and research with an emphasis on income taxation.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 389. Acct Info Syst Dev Opern Cntrl. 3 sem. hrs.
Introduction to the operation and development of accounting information systems, e-business applications, networking, and controls. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AC 289 or CS 285; and AC 310.

AC 415. Current Issues in the Accounting Profession. 3 sem. hrs.
This course is for accounting students who are returning from a spring internship.

AC 432. Intro Corp Gov Risk Assess. 3 sem. hrs.
A risk-oriented study of standards, concepts, procedures, and professional ethics underlying governance and the practice of external and internal auditing and assurance services. The course will focus on mechanisms and activities that enhance the reliability of information for decision making.
Prerequisite(s): AC 311 and AC 389.

AC 456. Govt & Non-Profit Acctg. 3 sem. hrs.
Special features of budgetary and fund accounting are applied to municipalities, other government units, and institutions such as schools and hospitals.
Prerequisite(s): AC 310.

AC 471. Taxation Bus Transact Organizt. 3 sem. hrs.
Examination of the tax implications of business formations, transactions between the entity and the owners, reorganizations, and liquidations. The course develops tax research skills.

AC 491. Independent Study. 3 sem. hrs.

AC 492. Accounting Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations.

AC 497. Special Topics. 3 sem. hrs.

Economics (EC) Courses

EC 110. Principles of Microeconomics. 3 sem. hrs.
Introduction to microeconomic analysis concentrating on consumer and producer behavior, competitive and imperfect markets, public policy and regulation, and income distribution.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

EC 111. Principles of Macroeconomics. 3 sem. hrs.
Introduction to macroeconomic analysis concentrating on national income, price levels, employment, monetary and fiscal policies, and international trade and development.
Prerequisite(s): EC 110.

EC 210. Microeconomic Policy Analysis. 3 sem. hrs.
This course uses economic analysis to examine a range of public policy issues.
Prerequisite(s): EC 110.

EC 211. Macroeconomic Policy Analysis. 3 sem. hrs.
Building on the macroeconomics background of EC 111, students will consider current national and international economic problems and issues.
Prerequisite(s): EC 111.

EC 300. Current Economic Problms. 3 sem. hrs.
Prerequisite(s): EC 110 and EC 111.

EC 308. Intermediate Microeconomics. 3 sem. hrs.
Examination of the theory of price and the theory of resource allocation. Topics include demand theory, production and cost functions, pricing and output under competitive and noncompetitive conditions, resource markets, and rudiments of general equilibrium analysis.
Prerequisite(s): MATH 121 or MATH 125; and EC 110 and EC 111.

EC 309. Intermediate Macroeconomics. 3 sem. hrs.
A study of the theoretical framework underlying income, employment, and growth analysis.
Prerequisite(s): EC 110 and EC 111.

EC 389. Computerized Mgt Info Systems. 3 sem. hrs.
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Students may not receive credit for EC 389 and FI 389.
Prerequisite(s): ST 260 or ST 250 and ST 251; and AC 210 and EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

EC 400. Analysis Econ Cond Micro.Macro. 3 sem. hrs.
Not open to majors in economics and finance. Uses basic economic theory to assess real-world business and economic conditions at the micro and macro levels.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and OM 300 and FI 302.

EC 410. Law And Economics. 3 sem. hrs.
This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 308.

EC 412. Industrial Organization. 3 sem. hrs.
Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.
Prerequisite(s): EC 308.

EC 413. Economic Forecast & Analysis. 3 sem. hrs.
Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 308 and EC 309.

EC 416. Monetary Theory & Policy. 3 sem. hrs.
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): EC 110 and EC 111.

EC 423. Public Finance. 3 sem. hrs.
Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308.

EC 430. International Trade. 3 sem. hrs.
Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.
Prerequisite(s): EC 308.

EC 431. International Finance. 3 sem. hrs.
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430.

EC 442. Economic Development of Latin America. 3 sem. hrs.
A comparative analysis of economic strategies, problems, issues, and policy outcomes with special attention given to Mexico, Costa Rica, Cuba, and Brazil.
Prerequisite(s): EC 110 and EC 111.

EC 444. Political Economy of Terrorism. 3 sem. hrs.
Rational actor models applied to the study of terrorism. Empirical examination of the economic impact of terrorism and of the effectiveness of anti-terrorism policies.
Prerequisite(s): EC 308.

EC 450. History of Economic Concepts. 3 sem. hrs.
Study of the development of economic theory from Adam Smith to the present day.
Prerequisite(s): EC 308 and EC 309.

EC 453. Comparative Economic Systems. 3 sem. hrs.
Comparative analysis of contrasting economic systems based on the type of ownership (private versus state) and on the coordinating mechanism (market versus central command). Emphasis is given to fundamental changes in economic systems that are currently under way.
Prerequisite(s): EC 110 and EC 111.

EC 470. Intro To Math Econ. 3 sem. hrs.
Application of selected mathematical methods to the analysis of economic problems.
Prerequisite(s): EC 309.

EC 471. Econometrics. 3 sem. hrs.
This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.
Prerequisite(s): MATH 121 or MATH 125; and ST 260 or ST 250 and ST 251; and EC 110 and EC 111.

EC 473. Games and Decisions. 3 sem. hrs.
An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.
Prerequisite(s): MATH 121 or MATH 125 with a minimum grade of C-.

EC 480. Econ Of Environment. 3 sem. hrs.
Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.
Prerequisite(s): EC 308.

EC 482. Seminar On Econ Issues. 3 sem. hrs.
Group discussion of current economic issues together with analysis and policy recommendations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111.

EC 483. Health Care Economics. 3 sem. hrs.
An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.
Prerequisite(s): EC 308.

EC 491. Independent Study. 1-6 sem. hr.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): EC 110 and EC 111.

EC 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111.

EC 497. Spec Topics In Economics. 1-3 sem. hr.
Prerequisite(s): EC 110 and EC 111.

Finance (FI) Courses

FI 101. Financial Economics. 3 sem. hrs.
A lower division course that bridges the gap between secondary school curriculum requirements for personal finance and upper division core course FI 302 Business Finance.

FI 301. Intro Financl Instit Mkt. 3 sem. hrs.
Overview of the financial systems in which business operates, with emphasis on financial institutions, instruments, and markets.

FI 302. Business Finance. 3 sem. hrs.
Study of financial objectives of business enterprise, sources of capital, and financial management of business assets. Emphasis is on establishing a framework for making financing, investing, and dividend decisions.

FI 314. Intro To Investing. 3 sem. hrs.

FI 331. Principles of Real Estate. 3 sem. hrs.
Survey of various aspects of real estate business and economics, including marketing, finance, development, law, appraising, etc. FI 331 can be taken concurrently with FI 302.
Prerequisite(s): FI 302 or CE 366 or ME 203
Prerequisite(s) with concurrency: FI 302.

FI 334. Intro to Real Estate Property Management. 3 sem. hrs.
Provides an introduction to the principles of real property management and covers all aspects of the property management process. Students are shown how to maximize the asset value of income-producing real estate for investors/owners through the use of finance, marketing, and management techniques. FI 334 can be taken concurrently with FI 331.
Prerequisite(s): EC 110 and EC 111 and FI 331
Prerequisite(s) with concurrency: FI 331.

FI 341. Fundamentals of Risk Management & Insurance. 3 sem. hrs.
Introductory study of life insurance and "personal lines" of property insurance, especially homeowners insurance and auto insurance. Economic environment of insurance and how to read and evaluate insurance contracts. Examines different types of life insurance contracts as well as savings and investment alternatives and their uses in estate planning.
Prerequisite(s): EC 110 and EC 111.

FI 360. Personal Asset Mgt. 3 sem. hrs.
To teach students about financial assets as vehicles for saving for the future. Students will also learn how to invest in a combination of assets to meet their objectives and how their objectives may change over their life span.

FI 389. Computerized Mgt Info Systems. 3 sem. hrs.
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111; and FI 302 or CE 366 or IE 203.

FI 400. Financl Instit Markets Investm. 3 sem. hrs.
Builds on the foundation laid in the business core to extend the student's knowledge of basic finance into the areas of operation and management of financial institutions and financial markets and investments.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and AC 210 and FI 302.

FI 410. Intermediate Financial Mgt. 3 sem. hrs.
Development of advanced practices of financial management and their application to decision making in the business firm.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 411. Corporate Finance Policy. 3 sem. hrs.
An integrative course designed to give the student experience in problem solving in finance. Cases will be used to permit students to apply what they know to specific business problems.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366
Prerequisite(s) with concurrency: FI 410 and FI 410.

FI 412. Money & Capital Market. 3 sem. hrs.
An overall view of the financing process and the role of financial markets.
Areas covered are characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 413. Working Capital Management. 3 sem. hrs.
FI 410 Students will develop the analytical expertise and the practical knowledge in the area of working capital management.
Prerequisite(s): FI 410.

FI 414. Investments. 3 sem. hrs.
Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 415. Adv Investment Topics. 3 sem. hrs.
Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.
Prerequisite(s): FI 414.

FI 416. Monetary Theory & Policy. 3 sem. hrs.
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): FI 301.

FI 419. Financial Derivatives. 3 sem. hrs.
Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
Prerequisite(s) with concurrency: FI 302 and FI 414.

FI 421. Bank Administration. 3 sem. hrs.
Survey of analytical methods in banking, including study of the powers of various government agencies. Emphasis is placed on managerial aspects of commercial banking.
Prerequisite(s): FI 301 and FI 302 or IE 203 or CE 366.

FI 423. Public Finance. 3 sem. hrs.
Study of principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308.

FI 431. International Finance. 3 sem. hrs.
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430.

FI 432. Real Estate Appraisal. 3 sem. hrs.
Study of the sources of real estate value and techniques for estimating property value; study of effective use of appraisal information.
Prerequisite(s): FI 302 or CE 366 or IE 203.

FI 436. Real Estate Financing. 3 sem. hrs.
Study of the institutions of real estate finance and of factors affecting the flow of funds; investment analysis and procedures involved in real estate financing.
Prerequisite(s): FI 302 or CE 366 or IE 203.

FI 442. Business Risk Mgt. 3 sem. hrs.
Analysis of risks facing business and governmental entities. Various methods of both controlling the risks and financing the risks, including both insurance and non-insurance alternatives.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 443. Property Liability Insur. 3 sem. hrs.
Current financial, legal, and social problems concerning the property-liability insurance industry. Role of government in providing insurance and topics in the management of property-liability insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 444. Life & Health Insurance. 3 sem. hrs.
Detailed analysis of life insurance and health insurance with emphasis on their role in employee-benefit planning. Specific provisions of qualified retirement plans. Current problems facing the life insurance industry and analysis of the distribution system for life and health insurance. Topics in management of life and health insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 460. Advanced Financial Planning. 3 sem. hrs.
The purpose of this course is to require the student to demonstrate the ability to integrate and apply his or her knowledge of financial planning topics as received through the curricula taught in the Wealth Management Concentration. Through this course, you will apply the financial planning process to real-life situations and to communicate your planning recommendations via both a written plan and an oral presentation.
Prerequisite(s): AC 371, FI 341, FI 360 and LGS 403
Prerequisite(s) with concurrency: FI 414 and FI 444.

FI 491. Independent Study. 1-6 sem. hr.
Students may earn degree credit for only one independent study course (491). Individually directed research and reading.
Prerequisite(s): EC 110 and EC 111.

FI 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111.

FI 497. Spec Topics In Finance. 1-3 sem. hr.
Prerequisite(s): EC 110 and EC 111.

General Business Administration (GBA) Courses

GBA 145. Freshman Compass: CBA. 1 sem. hr.
An introduction to the Culverhouse College of Commerce and Business Administration. Topics include adjustment to college life, study skills, career exploration, and majors offered in the College.

GBA 171. STEM Business Honors I. 1.5 sem. hr.
This course introduces STEM students to critical and innovative thinking as it pertains to the issues of today's business environment, while providing a modest introduction to basic economics and the global marketplace. The course begins to introduce business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to develop an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opporunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA.

GBA 172. STEM Business Honors II. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the iussues of today's business environment, while providing a modest introduction to business ethics, business ownership structures, and entrepreneurship. The course continues to develop business model design as a tool to better understand how to operate. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171.

GBA 271. STEM Business Honors III. 1.5 sem. hr.
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to management roles, teamwork, and productive systems. The course continues to develop business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to work in teams, with a goal of developing skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172.

GBA 272. STEM Business Honors IV. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to employee motivation, human resources management, and labor relations. The course continues to develop business model design as a tool to better understand how businesses operate, while introducing human centered design for designing business processes and products. In addition, the course will provide appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271.

GBA 300. Business Communications. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111 and LGS 200 and AC 210 or AC 201 and AC 202; and MATH 112 or MATH 115 or MATH 121 or MATH 125; and ST 260 or ST 250 and ST 251.

GBA 310. Introduction Corporate America. 3 sem. hrs.

GBA 334. Introduction to Fraud Risk Management. 3 sem. hrs.
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, dectection, and follow-up.
Prerequisite(s): AC 210.

GBA 371. STEM Business Honors V. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to marketing, product and pricing issues, distribution and logistics, and customer communication. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for designing business processes and products. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272.

GBA 372. STEM Business Honors VI. 1.5 sem. hr.
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to financial information and accounting concepts, financial management, financial markets & investment strategies and the money supply and banking systems. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272, GBA 371.

GBA 481. Business Honors Seminar I. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 482. Business Honors Seminar II. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 483. Business Honors Seminar III. 0.5-1.5 sem. hrs.
This courses is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 484. Business Honors Seminar IV. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 490. Strategic Management. 3 sem. hrs.
Examination of the managerial tasks of crafting and implementing strategic plans and the tools of strategic analysis. Students gain hands-on experience with tools and concepts of strategic management by participating in a business strategy simulation exercise and by analyzing actual companies.
Prerequisite(s): AC 210 and EC 110 and EC 111 and LGS 200 and ST 260 AND MATH 121 OR MATH 125
Prerequisite(s) with concurrency: MGT 300 and MKT 300 and OM 300 and FI 302 and GBA 300.

GBA 491. Independent Study. 3 sem. hrs.
Independent study in library or primary research. Not open to graduate students.

Health Care Management (HCM) Courses

HCM 370. Intro Health Systems. 3 sem. hrs.
Detailed study of components of the health care delivery system in the United States. The course emphasizes history, roles, and interactions of the various providers, consumers, and governments.
Prerequisite(s): MATH 121 or MATH 125; and AC 210 and LGS 200 and ST 260 and CS 102
Prerequisite(s) with concurrency: MGT 300.

HCM 371. Management Health Care Organzt. 3 sem. hrs.
Analysis of operations within health care institutions.
Prerequisite(s): HCM 370.

HCM 473. Survey Issues Health Care Mgt. 3 sem. hrs.
Examination of current issues in health care, including health care policies and their effect on the health care industry.
Prerequisite(s) with concurrency: HCM 370 and HCM 371.

HCM 476. Prin Of Long-Term Care. 3 sem. hrs.
The focus of this class will be on organizational platforms for delivering long-term health care, licensing and regulatory issues facing long-term care and operational and strategic issues facing long-term care.
Prerequisite(s): HCM 371.

HCM 477. Prin Ambulatory Care Managemen. 3 sem. hrs.
The purpose of this course is to help students understand the management issues in today's ambulatory care sector.
Prerequisite(s): HCM 371.

HCM 478. Health Care Information Systems. 3 sem. hrs.
Study of healthcare clinical and administrative systems in the acute, ambulatory, long-term care, and home-health environments. Electronic health records, confidentiality, privacy and admissibility issues are addressed.
Prerequisite(s): HCM 370 AND MGT 300 AND (MIS 200 OR MIS 300 OR MIS 295).

HCM 491. Independent Study. 3 sem. hrs.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251; and LGS 200.

HCM 492. Internship. 3 sem. hrs.
Supervised administrative work experience in the health care industry.

International Business Administration (IBA) Courses

IBA 250. Context of Glob Bus. 3 sem. hrs.
Broad introduction to international business providing students with an overview of the terms and concepts key to a better understanding of the complex business environment across the world's interrelated economies.
Prerequisite(s): EC 110 and EC 111.

IBA 350. Intro World Business. 3 sem. hrs.
This course examines the conduct of business across national boundaries and the impact of different cultures on business practices.
Prerequisite(s): MGT 300 or MKT 300.

IBA 351. Multinatl Business Communctn. 3 sem. hrs.
A study of the principles and practices of intercultural business communication, written and personal. The course requires substantial reading. The focus is on making students aware of the sources of common intercultural business communication problems, and on helping them develop strategies to avoid or correct these problems.
Prerequisite(s): MGT 300 or MKT 300.

IBA 455. Global Marketing. 3 sem. hrs.
A course in marketing theory and methods as they apply to world markets. Among the topics discussed are: the importance of linking international marketing with the overall strategy of the business while examining the impact of cultural, political and legal issues and the economic differences in global strategies. Emphasis is placed on developing the marketing mix appropriate to various international global environments.

IBA 460. Export/Import Management. 3 sem. hrs.
This course includes a thorough examination of the export-import management process and highlights its importance in international business strategy.
Prerequisite(s): IBA 350.

IBA 497. Special Topics: Ind. Study. 3 sem. hrs.

Legal Studies (LGS) Courses

LGS 200. Legal Environmt Business. 3 sem. hrs.
Environmental approach to the study of law, including the way the law interrelates, philosophy of law, and sources of law. The relationship among law, business, political influences, and the society is treated.

LGS 350. Crimes Torts Bus Envirn. 3 sem. hrs.

LGS 402. Government & Business. 3 sem. hrs.
This course is designed to give students some information about the regulations which government may or may not impose upon business, leaving students free to form their own conclusions as to their wisdom, adequacy, and practicability. Survey of basic constitutional principles and legal aspects of recent federal legislation affecting business and antitrust laws.
Prerequisite(s): LGS 200 and EC 111.

LGS 403. Estates & Trusts. 3 sem. hrs.
This course treats principles and rules of law relating to wills and inheritances; how the estates of deceased persons are administered; why and how trusts are created and operated; and the duties and settlement of executors, administrators, and trustees.
Prerequisite(s): LGS 200.

LGS 407. Real & Personal Propty. 3 sem. hrs.
This course is concerned with the conveyance of property, deeds, covenants, condemnation of property, rights of landlord and tenant, and bailments.
Prerequisite(s): LGS 200.

LGS 472. Legal Aspect Hlth Care. 3 sem. hrs.
Examines aspects of the law that are of most concern to individuals in health care management, including administrative law, hospital law, welfare law, public health law, and licensing and legislation.
Prerequisite(s): LGS 200 and HCM 370.

LGS 497. Special Topics. 1-3 sem. hr.
Prerequisite(s): LGS 200.

Management (MGT) Courses

MGT 300. Org Theory & Behavior. 3 sem. hrs.
A course designed to help students understand organizational theory, interpersonal communication, and other behavioral science concepts and then integrate them into managerial tools for effective use in business, industry, and public-sector organizations.
Prerequisite(s): MATH 121 or MATH 125 or MATH 126; and ST 260 and LGS 200 and EC 110 and AC 210.

MGT 301. Intro Human Resource Mgt. 3 sem. hrs.
Introductory course surveying problems and issues in labor economics, personnel management, and labor relations. Emphasis is placed on public policies affecting management and union representatives and on the role of the human resources manager in the organization.
Prerequisite(s): MGT 300 and EC 110 and EC 111.

MGT 320. Leadership. 3 sem. hrs.
This course focuses on the interpersonal dynamics of managers, professionals, and entrepreneurs at work. Case analysis and simulation of problem solving and decision making are used to develop insight into human relations in organizations as well as to develop the personal and interpersonal skills needed in leadership roles.
Prerequisite(s): MGT 300.

MGT 322. Effective Negotiations. 3 sem. hrs.
Negotiations are pervasive in all aspects of life. Having the ability to effectively negotiate can provide you with a competitive advantage in many situations. This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.
Prerequisite(s): Junior class standing and enrollment in College of Commerce and Business Administration, OR by permission of instructor.

MGT 341. Business Ethics. 3 sem. hrs.
Systematic examination of current issues and problems in the organization and management of business enterprises. The course combines readings, cases, and lectures that focus on the roles, activities, and ethical choices of managers as they direct organizations within the context of our contemporary society.
Prerequisite(s): MGT 300 minimum grade of C-.

MGT 386. Foundations of Entrepreneurshi. 3 sem. hrs.
Emphasis is on how to manage a small company and operate it profitably. Special attention is given to the problems of different types of small enterprises, such as those in retail, service, franchise, and manufacturing industries.
Prerequisite(s): MGT 300.

MGT 406. Family Business Management. 3 sem. hrs.
MGT 406 will offer: 1) several perspectives on family business and 2) address the challenges and opportunities unique to the management of family businesses.
Prerequisite(s) with concurrency: MGT 386.

MGT 412. Mgt Presentations. 3 sem. hrs.
Instruction and practice of information presentation in a business environment. Topics include conference room presentations, media briefings, team presentations, television interviews and audiovisual development.
Prerequisite(s): GBA 300 and MGT 300.

MGT 415. Ethics is Leadership Decision-Making: A Descriptive Functional Behavioral Analytic. 3 sem. hrs.
Using applied descriptive functional behavioral analytic techniques, students sequentially analyze, decompose, and develop models to explain unethical leadership decision making in organizations using quasi-naturalistic behavioral observation.
Prerequisite(s): MGT 300 or MGT 320 or MGT 341.

MGT 420. Organizational Change. 3 sem. hrs.
An investigation of structural, technological, humanistic, and task approaches to organizational change; the resistance to change; and the implementation of change in business and in private- and public-sector organizations.
Prerequisite(s): MGT 300 and MGT 301.

MGT 421. Corporate Entp. & Innovation. 3 sem. hrs.
This course uses a case analysis method to examine the development and implementation of managerial actions in modern organizations.
Prerequisite(s): MGT 300.

MGT 422. Leadership Communication. 3 sem. hrs.
Analysis of the role of communication in effective leadership for all management situtations.

MGT 431. Human Resources Selection and Placement. 3 sem. hrs.
The main purpose of this course is to provide students with detailed knowledge of an organization's staffing function. The knowledge includes, but is not limited to, understanding how to conduct a job's analysis, how to write a job description and the specifications of that job, how to choose appropriate recruitment and selection methods, how to structure and execute valid job interviews, how to write job offer letters, and how to evaluate the overall effectiveness of an organization's staffing strategy and policies.
Prerequisite(s): MGT 301.

MGT 432. Employee Relations. 3 sem. hrs.
A critical examination of the factors that condition employee relations in both the private and public sectors.
Prerequisite(s): MGT 300 and MGT 301.

MGT 433. Compensation and Performance Management. 3 sem. hrs.
This course will enable students to identify the components of a total reward system, understand the major compensation system design issues, become familiar with the provisions of the FLSA, and understand the relationship between compensation and performance management.
Prerequisite(s): MGT 301.

MGT 434. Training and Development. 3 sem. hrs.
This course examines both the theory and practice of training and development in organizations. Topics covered will include organizational, task, and individual needs assessment, training design and implementation, and evaluation techniques. This course will draw upon research and theory from management, psychology, and other relevant domains. Application of the text/lecture materials will be reinforced through class exercises, group assignments, guest lectures, and presentations.
Prerequisite(s): MGT 300, MGT 301.

MGT 437. Strategic Human Resource Management. 3 sem. hrs.
This course is designed to provide a broad, strategic overview of human resource management with practical applications. It will define and describe strategic HRM and identify the specific HR issues within organizational strategies, goals, and tasks. This class is designed to prepare students to sit for the SHRM college level certification exam.
Prerequisite(s): MGT 301 and three of the four HR concentration classes (MGT 431, MGT 432, MGT 433, MGT 434).

MGT 452. Management Communication Projects. 3 sem. hrs.
Demonstrate communication effectiveness in a business context by completing team project for a client, using written, oral, visual,and interpersonal skills.
Prerequisite(s): GBA 300 and MGT 300.

MGT 482. New Venture Development. 3 sem. hrs.
This course provides an opportunity to develop a business plan for a new venture or for expansion of an existing company. Students are expected to acquire skills in evaluating business ventures; to learn alternative financing sources; to develop ideas for differentiating products; and to develop an understanding of what is required to harvest the profits of a growing business.
Prerequisite(s): MGT 300.

MGT 483. Technology Commercialization. 3 sem. hrs.
This course focuses on getting ideas, innovations, or discoveries into the marketplace in the form of products or services, or into the value chain at any step, to increase the competitive advantage of the enterprise. The course offers an overview of the technology commercialization process. But more importantly, the course provides opportunities to assess technologies for commercialization. Indeed, the most useful description of the course is as a practicum in technology assessment. Throughout the course, students are engaged in technology assessment projects. This course links the activities of research and development, product and process design, technology transfer and marketing, new venture financing, technology entrepreneurship and intrapreneurship, protection of intellectual property, and management.
Prerequisite(s): MGT 386, or permission of the instructor.

MGT 486. Small Business Consultng. 3 sem. hrs.
This course is designed to offer education and training in the art of management consulting as it applies to smaller firms. The overall purpose of the course is the acquisition of knowledge and skills that will enable students to provide management advice to entrepreneurs and businesspersons to improve the performance of smaller organizations.
Prerequisite(s): MGT 300.

MGT 491. Independent Study. 1-3 sem. hr.
The course offers students interested in management the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with the advice and permission of the appropriate instructor and the approval of the program chairperson.
Prerequisite(s): MGT 300.

MGT 492. Internship In Hrm. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MGT 300.

MGT 497. Special Topics. 3 sem. hrs.

Management Information Systems (MIS) Courses

MIS 120. Business Programming I. 3 sem. hrs.
First computing class designed for students that will be majoring in Management Information Systems.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 126 or MATH 146.

MIS 200. Fundamentals Mgt Info Systems. 3 sem. hrs.
Business process coordination and decision making through the use of information technology will be explored, emphasizing IT use by organizations in increasingly global markets.
Prerequisite(s): CS 102 or PLCS 380.

MIS 295. Business Analysis Project Mgt. 3 sem. hrs.
An introduction to the fundamental concepts of business-process analysis, team-based project management, and use of information technology resources to develop information systems. Emphasis is placed on creating business value in systems ranging from transactional processing to e-commerce.
Prerequisite(s): CS 120 with concurrency OR CS 150 with concurrency
Prerequisite(s) with concurrency: CS 150 or CS 120.

MIS 310. Applied Organizational Information Technologies. 3 sem. hrs.
Students learn the IS development process and how to leverage underlying organizational IT components. Provides non-technology major students with the essentials of how IS are developed and used. Emphasis is on databases, data networks, mobile computing, and decision support.
Prerequisite(s): CS 102 or CS 120.

MIS 320. Applicatn & Informtn Architect. 3 sem. hrs.
The study and application of software engineering, application patterns, and file structures. Students design, construct, and test software structures for effective information management.
Prerequisite(s): MIS 295 and CS 220.

MIS 330. Database Administration. 3 sem. hrs.
Logical data modeling, RDBMS, and their use in the business enterprise are presented. Topics include anomalies/normalization, database-connections performance, n-tier architecture, query operations, stored processes and integrity triggers, and Web applications.
Prerequisite(s): MIS 295; and CS 120 or CS 150.

MIS 340. Data Com in a Global Environ. 3 sem. hrs.
Enabling international exchange of digital data to support business operations. Cultural, legal, security and operational requirements coupled with international standards evaluated in multiple network architectural configurations supporting transactional knowledge workers, e-business and e-commerce applications.
Prerequisite(s): MIS 200 or MIS 295; and CS 120 or CS 150.

MIS 430. Systems Analysis & Design I. 3 sem. hrs.
Intermediate-level skills in systems analysis and design techniques are presented. Emphasis is placed on systems development and delivery tools, methods, standards, and processes.
Prerequisite(s): MIS 320 and MIS 330
Prerequisite(s) with concurrency: MIS 450.

MIS 431. Systems Analysis & Design II. 3 sem. hrs.
Advanced-level skills in systems analysis and design techniques are presented. Emphasis is placed on enterprise-level systems development, creation of tailored methodologies, creation of architectural standards, metrics, and business strategy alignment.
Prerequisite(s): MIS 340 and MIS 430 and MIS 450
Prerequisite(s) with concurrency: MIS 451.

MIS 440. Decision Support Systems. 3 sem. hrs.
This course assesses information and process requirements to support business decisions in organizations. Students conceptualize, design, develop, and deliver model-based information systems designed to support effective managerial decision making.
Prerequisite(s): MIS 200 or MIS 295.

MIS 450. Systems Constructn Implemtn I. 3 sem. hrs.
Leveraging software development skills from prior MIS and CS courses, students construct, test, and deploy IT-based business solutions.
Prerequisite(s): MIS 320 and MIS 330
Prerequisite(s) with concurrency: MIS 430.

MIS 451. Systems Constructn Implemtn II. 3 sem. hrs.
Development of advanced software engineering skills to develop, deploy, test, document, and assess large-scale IT-based business solutions. Conversion, migration, training, maintenance, and operations plans and budget are emphasized.
Prerequisite(s): MIS 340 and MIS 430 and MIS 450
Prerequisite(s) with concurrency: MIS 431.

MIS 491. Independent Study. 1-3 sem. hr.

MIS 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services. Students may earn degree credit for only one internship (492).

MIS 497. Special Topics. 3 sem. hrs.
Special topics in MIS.

Marketing (MKT) Courses

MKT 300. Marketing. 3 sem. hrs.
A survey course that describes the nature of domestic and global marketing management. Emphasis is placed on market analysis to include consumer, industrial, institutional, and governmental markets for goods and services. Also emphasized are the marketing management functions of planning, pricing, promoting, and distributing goods and services in business and nonprofit contexts.

MKT 310. Principles of Social Media. 3 sem. hrs.
A survey of interactive, electronic media and technology that enable organizations to 1) acquire products, services and materials from suppliers, 2) market goods and services to customers, 3) allow members of the organization to communicate with each other, and 4) monitor the external environment. Students develop e-commerce-related skills to design and execute a firm's marketing efforts, including Web project management, electronic market development and management, Web-enabled selling, and other emerging areas of marketing.
Prerequisite(s): MKT 300.

MKT 313. Consumer Behavior. 3 sem. hrs.
Analysis of the basic processes underlying buyer behavior. Various factors are examined, including external influences (e.g., culture, reference groups, family) and internal influences (e.g., perceptions, attitudes, personality). Primary emphasis is on final consumers with a secondary emphasis on the external and internal influences affecting organizational buyers.
Prerequisite(s): MKT 300.

MKT 321. Retail Management. 3 sem. hrs.
Analysis of existing generalizations and principles related to the economic and social role of retailing; competitive strategies; efficiency in retailing; and essential concepts for retail management.
Prerequisite(s): MKT 300.

MKT 334. Impr. Mgt. Beh. Lab. 1 sem. hr.
The class teaches students how to effectively apply the persuasion and impression management theory so that they can effectively influence individuals and others.
Prerequisite(s) with concurrency: MKT 300.

MKT 337. Personal Selling. 3 sem. hrs.
Introduction to successful selling practices and principles through presentation, discussion, role playing, and workshops. Includes principles of prospecting, establishing rapport, generating curiosity, being persuasive, creating desire, handling objections, and closing.
Prerequisite(s): MKT 300.

MKT 338. Sales Management. 3 sem. hrs.
This course builds on the basic sales process taught in Personal Selling (MKT337) by focusing on Account Management and Team Management. Through class discussion and an Account Plan project, students gain an understanding of customer partnerships, business management, and sales team development. The concept that sales managers must both implement and facilitate corporate marketing plans is pervasive through the course.
Prerequisite(s): MKT 300 and MKT 337.

MKT 371. Site Select Mkt Analysis. 3 sem. hrs.
Prerequisite(s): MKT 300.

MKT 376. Services Marketing. 3 sem. hrs.
To understand the basic concepts and principles surrounding services marketing and management including processes, people, and physical evidence.
Prerequisite(s): MKT 300.

MKT 385. Marketing Information Systems. 3 sem. hrs.
Introduces students to the types of information systems used in marketing as well as develop the basic analytical skills necessary to use the output from such systems. The course has a decision-making focus and will survey the tools available for marketing decision making. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 and MATH 121; or MATH 115 and MATH 125; or MATH 121; or MATH 125; or MATH 126; or MATH 131; and EC 110 and EC 111 and CS 102 and AC 210 and ST 260 or ST 250 and ST 251; and LGS 200.

MKT 410. Managing Innovation. 3 sem. hrs.
Systematic examination of product policy and of the major concepts, methods, and strategies involved in decision making in the course of developing new products. Techniques and criteria used to identify and implement new products and services are examined in depth. Consideration is given to issues and strategies involved in the management of mature products.
Prerequisite(s): MKT 300.

MKT 411. Supply Chain Management. 3 sem. hrs.
Supply chain management encompasses the design and administration of the systems of suppliers and distributors that collectively provide for the exchange of title, physical movement, and storage activities in marketing. The scale and complexity of supply chain relationships are escalating as firms strive to enhance interorganizational effectiveness and efficiency. This course examines the role of manufacturers and intermediaries in channel strategies and the scope, methods, problems, and opportunities of systemic supply chain coordination.
Prerequisite(s): MKT 300.

MKT 422. Supply Chain Strategy. 3 sem. hrs.
Logistics is a system-based concept requiring the effective coordination of the flow of materials and goods from the point of origin to the end user. This course explores the key marketing tasks necessary to achieve an efficient logistics network: transportation, warehousing and materials handling, inventory management, forecasting, information and order processing, and simulation/modeling.
Prerequisite(s): MKT 300 and MKT 411.

MKT 437. Advanced Selling. 3 sem. hrs.
The purpose of the course is to enhance communication and selling skills. Focus will be on the account managment principles and the processes used to develop account and long term relationships with major accounts. Live selling situations will be used to practice skills.
Prerequisite(s): MKT 337.

MKT 439. Key Account Management. 3 sem. hrs.
To understand and practice the science of managing customer lifecycles; including account sourcing, analysis, categorization, strategic planning, tactical development and implementation.
Prerequisite(s): MKT 337 Personal Selling.

MKT 444. Promotional Management. 3 sem. hrs.
Intensive investigation of underlying ideas, principles, and concepts that may be used to inform consumers of the availability and attributes of products and services. The course includes a comprehensive overview of promotional and sales management activities and tactics.
Prerequisite(s): MKT 300.

MKT 460. Export/Import Management. 3 sem. hrs.
Course includes a thorough examination of export-import management processes and highlights the importance of management in international business strategy.
Prerequisite(s): MKT 300.

MKT 473. Marketing Research. 3 sem. hrs.
Designed to prepare the student to be an informed, effective user of marketing research. Provides an overview of research techniques available for collecting information to answer specific research questions. Therefore, the orientation of the course is managerial.
Prerequisite(s): MKT 300.

MKT 476. Services Management. 3 sem. hrs.
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 300
Prerequisite(s) with concurrency: MKT 376.

MKT 477. Advanced Services Marketing. 3 sem. hrs.
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 376, MKT 476.

MKT 487. Strategic Marketing. 3 sem. hrs.
Analysis of marketing problems as they relate to the managerial functions of planning, organizing, and controlling marketing.
Prerequisite(s): MKT 313
Prerequisite(s) with concurrency: MKT 473.

MKT 488. Marketing Field Study. 3 sem. hrs.
Working with a client firm, students apply (in a practical setting) the skills and knowledge they have acquired and build new skills in project management.
Prerequisite(s): MKT 300.

MKT 491. Independent Study. 1-3 sem. hr.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MKT 300.

MKT 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 and LGS 200 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251.

MKT 493. Special Topics Marketing. 3 sem. hrs.
Courses that offer the faculty a chance to present topics of interest to themselves and to marketing students.
Prerequisite(s): MKT 300.

Operations Management (OM) Courses

OM 300. Intro Operations Management. 3 sem. hrs.
This course is an introduction to the field of operations management and addresses the design and management of the activities and resources that a firm uses to produce and deliver its products or services. Topics include operations strategy, product and process design, total quality management, statistical quality control, supply chain management, location analysis, forecasting, inventory management, operations planning, and lean/JIT business processes.
Prerequisite(s): ST 260.

OM 310. Introduction Management Scienc. 3 sem. hrs.
Concepts of management science and their application to decision making. Topics include linear programming, transportation models, integer programming, dynamic programming, queuing theory, decision theory, and network models.
Prerequisite(s): OM 300.

OM 321. Prod Planning & Contrl. 3 sem. hrs.
The planning and control of production and service systems. Attention is given to forecasting, operations planning, scheduling, materials management, and operations control.
Prerequisite(s): OM 300.

OM 360. Comparative Production Systems. 3 sem. hrs.

OM 375. Statistical Quality Control. 3 sem. hrs.
Statistical methods useful in control of quality of manufactured products. Topics include Shewhart and cumulative sum control charts; process capability analysis; and acceptance sampling procedures by attributes and variables. Emphasis is on understanding, design, implementation, and interpretation of these techniques.

OM 385. Information Tech Oper Mgt. 3 sem. hrs.
Introduction to the components of management information systems and applications of computer-based systems to business decisions. Open only to OM majors or by permission of the instructor. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): ST 260 or ST 250 and ST 251.

OM 417. Logistics Management. 3 sem. hrs.
Logistics deals with the planning and control of material flows and related information in organizations. This course covers logistics systems planning, organization, and control of these activities with a special emphasis on quantitative aspects of the decisions.
Prerequisite(s): OM 300.

OM 420. Computer Simulation. 3 sem. hrs.
The use of simulation as a tool to understand and improve the performance of complex systems and processes. Students will learn the details of a specific simulation language. Applications to production processes and operational activities. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): OM 310.

OM 422. Operations Scheduling. 3 sem. hrs.
A broad investigation into a variety of scheduling activities in a variety of environments. Topics include scheduling as applied to projects, job-shops, assembly lines, parallel machine systems, workforce, and transportation.
Prerequisite(s): OM 321.

OM 423. Inventory Management. 3 sem. hrs.
Control techniques for the large multi-item inventories frequently associated with manufacturing supply and wholesale-retail operations. The limitations and usefulness of models in actual practice.
Prerequisite(s): OM 321.

OM 425. Effective Quality Management. 3 sem. hrs.
Provides a broad understanding of the philosophies and methods used to enhance organizational effectiveness in a wide range of organizational settings.

OM 427. Purchasing and Sourcing. 3 sem. hrs.
Course covers fundamental purchasing systems applications, supplier relations and evaluation, strategic planning in purchasing, purchasing techniques, value analysis and cost analysis.
Prerequisite(s): OM 300.

OM 450. Process Mgmt & Improvement. 3 sem. hrs.
An analytical study of strategies, tactics, and techniques for designing, evaluating and analyzing, controlling and improving processes. Emphasis is on topics such as Design for Flexibility, Lean, Six Sigma, Constraint Management will all be included along with process application of OM analytical tools such as simulation, queuing analysis, and value stream mapping.
Prerequisite(s): OM 300.

OM 487. Capstone Project Seminar. 3 sem. hrs.
Course addresses the design, operation, and continuous improvement of business operations that deliver products and services. Students will work in teams on an operations oriented project with a local company. The student teams will provide periodic reports and presentations on their project work.
Prerequisite(s): OM 300.

OM 491. Independent Study. 3 sem. hrs.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): OM 300.

OM 492. Internship In Operations Mgt. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations.

OM 497. Special Topics. 3 sem. hrs.

Statistics (ST) Courses

ST 260. Statistical Data Analysis. 3 sem. hrs.
Introduction to the use of basic statistical concepts in business applications. Topics include extensive graphing; descriptive statistics; measures of central tendency and variation; regression, including transformations for curvature; sampling techniques; designs; conditional probability; random variables; probability distributions; sampling distributions; confidence intervals; and statistical inference. Computer software applications are utilized extensively. Emphasis throughout the course in on interpretation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 or CS 150 or CS 120 or GES 131 or GES 145 or PLCS 380.

ST 450. Stat Methods In Res I. 3 sem. hrs.
Development of fundamental concepts of organizing, exploring, and summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on methods and on selecting proper statistical techniques for analyzing real situations.

ST 451. Stat Methods In Res II. 3 sem. hrs.
Analysis of variance and design of experiments, including randomization, replication, and blocking; multiple comparisons; correlation; simple and multiple regression techniques, including variable selection, detection of outliers, and model diagnostics. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on appropriate analysis of data in real situations.
Prerequisite(s): ST 450 or GES 255.

ST 452. Applied Regression Analysis. 3 sem. hrs.
Data analysis using multiple linear regression, including residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques and co-linearity. Logistic regression uses similarly discussed for dealing with binary valued independent variables.
Prerequisite(s): ST 260.

ST 454. Mathematical Statistics I. 3 sem. hrs.
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.
Prerequisite(s): MATH 227.

ST 455. Mathematical Statistics II. 3 sem. hrs.
Theory of order statistics, point estimation, interval estimation, and hypothesis testing.
Prerequisite(s): ST 454.

ST 497. Special Topics. 3 sem. hrs.

Culverhouse School of Accountancy

Professor Mary S. Stone, Director
Office: 314 Alston Hall
The School of Accountancy was established in July 1978 as an academic unit of the College of Commerce and Business Administration. The school was named in honor of Hugh F. Culverhouse Sr. in February 1989. Culverhouse was an alumnus of The University of Alabama, a noted lawyer and businessman, and a major supporter of the accountancy program. The Culverhouse School of Accountancy is a charter member of the Federation of Schools of Accountancy. The School holds accounting accreditation at both the undergraduate and graduate levels. In addition to the bachelor of science degree, the Culverhouse School of Accountancy offers two professional master's degrees, the master of accountancy (MAcc) and the master of tax accounting (MTA), and a doctor of philosophy (PhD) degree with a concentration in accounting.
Students should consult the Culverhouse School of Accountancy website for additional information about admission and program requirements.

Admission and Retention Policies

A prospective Culverhouse School of Accountancy student must submit an application, verifying that all criteria for admission have been met. Students are eligible for admission if they meet the admission criteria to the upper division of the College of Commerce and Business Administration. A student whose grade point average falls below these standards may petition the Associate Dean of C&BA Undergraduate Programs for admission to the upper division and Culverhouse School of Accountancy if the student's GPA for the last 30 hours attempted at The University of Alabama is at least 2.5.

Students who have not been admitted to the school may enroll in upper-division accounting courses offered for non-majors. A student who has not been admitted may also enroll in 300-level accounting courses offered for accounting majors, provided that he or she has fulfilled the prerequisites for those courses and either meets the criteria for admission to the Culverhouse School of Accountancy or must take those courses as part of the major or minor. Only students who have been admitted to the Culverhouse School of Accountancy may enroll in 400-level accounting courses without special permission from the director.

Accounting majors must complete all 300-level accounting courses with grades of C- or better. A student who enrolls in any of these courses twice and fails to make a grade of C- or better will not be permitted to take additional accounting courses without special permission. Enrollment is defined as registration for a course that results in the recording of hours attempted on the student's record. Priority for enrollment in upper-division accounting courses is given to students who are not repeating the courses.

Students wishing to sit for the CPA examination in Alabama must complete the Professional Accounting specialization, and they must earn 150 semester hours of college courses. To meet this requirement, students in the Culverhouse School of Accountancy must be admitted to either the master of accountancy or master of tax accounting programs. Students should apply for admission to one of these graduate programs during the first semester of their senior year. The Professional Accounting specialization is required for students entering the master's programs in accounting.

Accounting Major

In addition to completing the specific prerequisites included in the descriptions of the accounting courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (60 semester hours). Furthermore, all C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites:

EN 101 English Composition and EN 102 English Composition; EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics; MATH 112 Precalculus Algebra and MATH 121 Calculus & Applications or MATH 115 Precalc Algebra & Trig and MATH 125 Calculus I; CS 102 Microcomputer Applications or CS Placement Test score of 380; AC 210 Intro To Accounting; ST 260 Statistical Data Analysis; LGS 200 Legal Environmt Business (or their equivalents); and at least four hours in natural science; three hours of fine arts, literature or humanities; and three hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

- EC 110 Principles of Microeconomics (with a grade of C- or better) is a prerequisite to AC 210 Intro To Accounting.
- AC 210 Intro To Accounting or its equivalent (with a grade of C- or better) is a prerequisite for all accounting program courses numbered 300 or above.
- A grade of C- or better is needed in any accounting course that is listed in the catalog as a prerequisite for the next course.
- Accounting majors must earn grades of C- or higher in all 300-level accounting courses. See the C&BA General Degree Requirements and Academic Policies section of this catalog for policies on grading and repeating courses.

Accounting

		Hours
AC 310	Finan Report Analy Bus Activ I	3
AC 311	Fin Report Analy Bus Activ II	3
AC 361	Cost Analysis Plang & Control	3
AC 371	Introduction To Taxation	3
AC 389	Acct Info Syst Dev Opern Cntrl	3
AC 432	Intro Corp Gov Risk Assess	3
Total Hours		18

Third-year Requirement for Accounting Majors

No 300- or 400-level accounting courses may be transferred from another institution and applied to the degree requirements for accounting majors. These upper-level courses have unique components, and equivalent courses do not exist at other universities. A condition of enrollment in all undergraduate accounting courses other than AC 351 Managerl Acctg Decisions and AC 352 Corporate Financl Report is admission to the Culverhouse School of Accountancy or permission of the director.

Accounting Specializations

Accounting

		Hours
For non-Accounting majors; not open to General Business majors.		
AC 310	Finan Report Analy Bus Activ I	3
AC 311	Fin Report Analy Bus Activ II	3
Choose one of the following:		3
AC 361	Cost Analysis Plang & Control	
AC 371	Introduction To Taxation	
AC 389	Acct Info Syst Dev Opern Cntrl	
Total Hours		9

Professional Accounting

		Hours
This specialization is designed for students who plan to pursue a master's degree in accounting (MAcc or MTA) and/or sit for the CPA exam.		
Required courses:		
AC 456	Govt & Non-Profit Acctg	3
AC 471	Taxation Bus Transact Organizt	3
Choose one of the following:		3
AC 492	Accounting Internship	
FI 301	Intro Financl Instit Mkt	
FI 341	Fundamentals of Risk Management & Insurance	
FI 410	Intermediate Financial Mgt	
FI 414	Investments	
IBA 350	Intro World Business	
Total Hours		9

Faculty

Director of the Culverhouse School of Accountancy, Hugh Culverhouse Endowed Chair in Accounting

Stone, Mary S.

Professional Advisory Board Faculty Fellow and Professor of Accounting

DeZoort, F. Todd

Ernst & Young Professor of Accounting

Hatfield, Richard C.

Hilton Dean Professor of Accounting

Houston, Richard C.

Ernst & Young Diversity Mentor in Accounting and Associate Professor of Accounting

Johnson, Peter M.

CMA Joe Lane Professor

Kee, Robert C.

Professor and Steven Ross-Hugh Chair of Accountancy

Lopez, Thomas J.

Nabors Faculty Fellow and Associate Professor of Accounting

Parsons, Linda M.

Stimpson Gulf Lumber Faculty Fellow and Associate Professor of Accounting

Reitenga. Austin

Roddy-Garner Professor of Accounting

Robbins, Walter A.

Culverhouse Professor of Accounting

Schnee, Edward J.

Endowed C&BA Professorship and Associate Professor of Accounting

Taylor, Gary K.

Assistant professors

Huang, Xiaochuan (Kelly)

Jurney, N. Susan

Instructors

FitzGibbon, J. Thomas

McKinney, Lisa Hughes

Minyard, Donald H.

Courses

AC 210. Intro To Accounting. 4 sem. hrs.
Introduction to accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions. Students who intend to major in accounting should take AC 289 before or concurrently with AC 210.
Prerequisite(s): EC 110.

AC 289. Computer Applications. 3 sem. hrs.
Introduction to information technology and computer applications in business. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 114 or CBH 101.

AC 310. Finan Report Analy Bus Activ I. 3 sem. hrs.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 311. Fin Report Analy Bus Activ II. 3 sem. hrs.
Prerequisite(s): AC 310.

AC 334. Introduction to Fraud Risk Management. 3 sem. hrs.
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, detection, and follow-up.
Prerequisite(s): AC 210.

AC 351. Managerl Acctg Decisions. 3 sem. hrs.
Study of managerial accounting concepts and their use in business decisions. Not open to accounting majors.
Prerequisite(s): AC 210 or AC 201 and AC 202.

AC 352. Corporate Financl Report. 3 sem. hrs.
Study of financial accounting concepts and their use in analyzing and interpreting financial reports. Not open to accounting majors.
Prerequisite(s): AC 210 or AC 201 and AC 202.

AC 361. Cost Analysis Plang & Control. 3 sem. hrs.
A study of the theory and application of accounting for measuring the economic attributes of the firm's operations. The course examines the measurement, analysis, and interpretation of accounting information for planning and controlling a firm's business-related activities.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 371. Introduction To Taxation. 3 sem. hrs.
Introduction to tax policy, planning, practice, and research with an emphasis on income taxation.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 389. Acct Info Syst Dev Opern Cntrl. 3 sem. hrs.
Introduction to the operation and development of accounting information systems, e-business applications, networking, and controls. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AC 289 or CS 285; and AC 310.

AC 415. Current Issues in the Accounting Profession. 3 sem. hrs.
This course is for accounting students who are returning from a spring internship.

AC 432. Intro Corp Gov Risk Assess. 3 sem. hrs.
A risk-oriented study of standards, concepts, procedures, and professional ethics underlying governance and the practice of external and internal auditing and assurance services. The course will focus on mechanisms and activities that enhance the reliability of information for decision making.
Prerequisite(s): AC 311 and AC 389.

AC 456. Govt & Non-Profit Acctg. 3 sem. hrs.
Special features of budgetary and fund accounting are applied to municipalities, other government units, and institutions such as schools and hospitals.
Prerequisite(s): AC 310.

AC 471. Taxation Bus Transact Organizt. 3 sem. hrs.
Examination of the tax implications of business formations, transactions between the entity and the owners, reorganizations, and liquidations. The course develops tax research skills.

AC 491. Independent Study. 3 sem. hrs.

AC 492. Accounting Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations.

AC 497. Special Topics. 3 sem. hrs.

Department of Economics, Finance and Legal Studies

Professor Billy P. Helms, Department Head
Office: 200 Alston Hall

The primary objective of the Department of Economics, Finance and Legal Studies is to offer high quality undergraduate and graduate programs in economics and finance which are designed to prepare students for rewarding careers in both the public and private sectors of the competitive job market.

Programs offered provide basic economic and financial concepts and knowledge that serve as the foundation for both public policy and business decision-making activity. Furthermore, through the many courses offered in each program, students can specialize in areas such as applied economics, public sector economics, international economics, financial management, investing and public finance that suit their career development goals.

The Department is home to these majors and specializations:

Majors

- Economics
- Finance

Economics Specializations

- Applied Microeconomics
- Economics (for non-majors)
- Econometrics and Forecasting
- International Economics
- Macroeconomics and Monetary Policy
- Public Policy and Law
- Quantitative Economics

Finance Specializations

- Actuarial Science
- Banking & Financial Services
- Finance (for non-majors)
- Financial Management
- Insurance and Financial Services: Risk Management
- International Finance
- Investment Management
- Personal Wealth Management
- Quantitative Finance
- Real Estate

Major in Economics

The University's economics program offers an extensive array of courses to develop the student's analytical abilities and prepare graduates for rewarding careers in business, industry and government. Economics also provides a sound foundation for postgraduate study in a variety of fields. The department offers a major in economics through both C&BA and the College of Arts and Sciences. Students majoring in other fields in C&BA may select economics as a non-commerce minor. Students majoring or minoring in economics are urged to consult the undergraduate adviser for recommendation of 400-level economics courses and general electives consistent with their career goals and objectives.

Economics majors must complete the core Computer Language requirement by taking one of the following (or a similar course) approved by the department: Acct Info Syst Dev Opern Cntrl (AC 389), Computerized Mgt Info Systems (FI 389), Information Tech Oper Mgt (OM 385) or Marketing Information Systems (MKT 385). Economics majors must also select a specialization or a second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with a plan approved by the department. Approved majors already exist for math and modern languages. Students selecting non-business minors must also complete a specialization in business.

Major in Economics*

		Hours
EC 308	Intermediate Microeconomics **	3
EC 309	Intermediate Macroeconomics **	3
FI 301	Intro Financl Instit Mkt	3
Additional EC courses		9
Total Hours		18

*EC 470 Intro To Math Econ is strongly recommended for those considering graduate work in economics or business.
**A grade of C or higher is required in EC 308 Intermediate Microeconomics and EC 309 Intermediate Macroeconomics.

Double Major in Economics and Mathematics

The double major in economics and mathematics is for students looking to apply strong quantitative skills in the field of economics. This curriculum is ideal for students in pursuit of a career that involves forecasting and/or an understanding of formal economic modeling. It also provides students with the mathematical background necessary for pursuing a doctoral degree in economics. Students in this degree program are formally enrolled in the Culverhouse College of Commerce, but the curriculum is determined by both the College of Commerce and the College of Arts and Sciences.

Economics Courses

		Hours
EC 308	Intermediate Microeconomics *	3
EC 309	Intermediate Macroeconomics *	3
EC 471	Econometrics	3
EC elective		3
FI 301	Intro Financl Instit Mkt	3
FI 389	Computerized Mgt Info Systems	3
EC 413	Economic Forecast & Analysis	3
Total Hours		21

*A grade of C- or higher is required in EC 308 Intermediate Microeconomics and EC 309 Intermediate Macroeconomics.

Mathematics Courses

		Hours
MATH 227	Calculus III	4
MATH 237	Introduction to Linear Algebra	3
MATH 238	Appld Diff Equations I	3
MATH 355	Theory Of Probability	3
MATH 451	Math Stats W/Applictn I	3
MATH electives (300- or 400-level) *		6
Total Hours		22

*The following courses **cannot** be counted as MATH electives:

MATH 402	History Of Mathematics	3
MATH 405	Geometry For Teachers	3

Major in Finance

Finance majors must complete the core Computer Language requirement by taking one of the following or a similar course approved by the department: Computerized Mgt Info Systems (FI 389), AC 389 Acct Info Syst Dev Opern Cntrl, Information Tech Oper Mgt (OM 385) or Marketing Information Systems (MKT 385). Finance majors are required to select a specialization or second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with a plan approved by the department. Approved majors already exist for math and modern languages. Students selecting non-business minors must also complete a specialization in business.

Major in Finance

		Hours
EC 308	Intermediate Microeconomics	3
EC 309	Intermediate Macroeconomics	3
FI 301	Intro Financl Instit Mkt	3
FI 410	Intermediate Financial Mgt	3
FI 412	Money & Capital Market	3
FI 414	Investments	3
Total Hours		18

Double Major in Finance and Mathematics

The double major in finance and mathematics is for students looking to apply strong quantitative skills in the field of finance. This curriculum is ideal for students in pursuit of a career that requires an understanding of financial modeling or students desiring to attend graduate school. Students in this degree program are formally enrolled in the Culverhouse College of Commerce, but the curriculum is determined by both the College of Commerce and the College or Arts and Sciences.

Finance Courses

		Hours
EC 308	Intermediate Microeconomics	3
EC 309	Intermediate Macroeconomics	3
EC 413	Economic Forecast & Analysis	3
FI 301	Intro Financl Instit Mkt	3
FI 410	Intermediate Financial Mgt	3
FI 389	Computerized Mgt Info Systems	3
FI 412	Money & Capital Market	3
FI 414	Investments	3
Total Hours		24

Mathematics Courses

		Hours
MATH 227	Calculus III	4
MATH 237	Introduction to Linear Algebra	3
MATH 238	Appld Diff Equations I	3
MATH 355	Theory Of Probability	3
MATH 451	Math Stats W/Applictn I	3
MATH electives (300- or 400-level) *		6
Total Hours		22

* The following courses **cannot** be counted as MATH electives:

MATH 402	History Of Mathematics	3
MATH 405	Geometry For Teachers	3

Double Major in Finance and Economics

The double major in finance and economics is for students looking to combine the fields of finance and economics.

Double Major in Finance and Economics

		Hours
EC 308	Intermediate Microeconomics	3
EC 309	Intermediate Macroeconomics	3
FI 301	Intro Financl Instit Mkt	3
FI 389	Computerized Mgt Info Systems	3
FI 410	Intermediate Financial Mgt	3
FI 412	Money & Capital Market	3
FI 414	Investments	3
Approved FI elective		3

Additional EC courses		12
Total Hours		36

Specializations in Economics

Applied Microeconomics

		Hours
Students must major in economics.		
Choose three of the following:		9
EC 410	Law And Economics	
EC 412	Industrial Organization	
EC 423	Public Finance	
EC 430	International Trade	
EC 442	Economic Development of Latin America	
EC 444	Political Economy of Terrorism	
EC 480	Econ Of Environment	
EC 482	Seminar On Econ Issues	
Total Hours		9

Econometrics & Forecasting

		Hours
Students must major in Economics.		
EC 413	Economic Forecast & Analysis	3
EC 470	Intro To Math Econ	3
EC 471	Econometrics	3
Total Hours		9

Economics

		Hours
For non-Economics majors		
EC 308	Intermediate Microeconomics	3
EC 309	Intermediate Macroeconomics	3
Two 300- or 400-level EC electives		6
Total Hours		12

International Economics

		Hours
Students must major in Economics, complete at least three years (six semesters) of foreign languages, and spend a semester abroad.		
EC 430	International Trade	3
EC 431	International Finance	3
EC 442	Economic Development of Latin America	3
Total Hours		9

Macroeconomics & Monetary Policy

		Hours
Students must major in Economics.		
EC 413	Economic Forecast & Analysis	3
EC 416	Monetary Theory & Policy	3
EC 431	International Finance	3
Total Hours		9

Public Policy & Law

		Hours
Students must major in Economics.		
Choose three of the following:		9
EC 410	Law And Economics	
EC 412	Industrial Organization	
EC 423	Public Finance	
EC 444	Political Economy of Terrorism	
EC 480	Econ Of Environment	
EC 482	Seminar On Econ Issues	
Total Hours		9

Quantitative Economics

		Hours
Students must major in Economics.		
MATH 125 & MATH 126 & MATH 227 & MATH 237	Calculus I and Calculus II and Calculus III and Introduction to Linear Algebra	15
EC 413	Economic Forecast & Analysis	3
EC 470	Intro To Math Econ	3
EC 471	Econometrics	3
ST 454 or	Mathematical Statistics I	3
MATH 355	Theory Of Probability	
ST 455 or	Mathematical Statistics II	3
MATH 451	Math Stats W/Applictn I	
Total Hours		30

Specializations in Finance

Actuarial Science

		Hours
Not open to General Business majors.		
MATH 125 & MATH 126 & MATH 227	Calculus I and Calculus II and Calculus III	12
EC 413	Economic Forecast & Analysis	3
FI 341	Fundamentals of Risk Management & Insurance	3
FI 389	Computerized Mgt Info Systems	3
FI 419	Financial Derivatives	3
ST 452	Applied Regression Analysis	3
ST 454	Mathematical Statistics I	3
ST 455	Mathematical Statistics II	3
Non-Finance majors will need to take FI 410 and FI 414 if they plan to sit for the actuarial exams.		0-6
Total Hours		33-39

Banking & Financial Services

		Hours
Students must major in Finance.		
AC 351 or	Managerl Acctg Decisions	3
AC 352	Corporate Financl Report	
FI 341	Fundamentals of Risk Management & Insurance	3
FI 421	Bank Administration	3
Total Hours		9

Finance

		Hours
For non-Finance majors		
EC 308	Intermediate Microeconomics	3
FI 301	Intro Financl Instit Mkt	3
Choose two of the following:		6
FI 410	Intermediate Financial Mgt	
FI 412	Money & Capital Market	
FI 414	Investments	
Total Hours		12

Financial Management

		Hours
Students must major in Finance.		
AC 310	Finan Report Analy Bus Activ I	3
AC 311	Fin Report Analy Bus Activ II	3
AC 361	Cost Analysis Plang & Control	3
AC 389	Acct Info Syst Dev Opern Cntrl	3
FI 411	Corporate Finance Policy (may be substituted for FI 412 in the Finance major)	3

FI 419	Financial Derivatives (may be substituted for EC 309 in the Finance major)	3
Total Hours		18

Insurance & Financial Services: Risk Management

		Hours
FI 341	Fundamentals of Risk Management & Insurance	3
Choose five of the following (three will count as part of the Finance major):		15
FI 360	Personal Asset Mgt	
FI 410	Intermediate Financial Mgt	
FI 412	Money & Capital Market	
FI 414	Investments	
FI 442	Business Risk Mgt	
FI 443	Property Liability Insur	
FI 444	Life & Health Insurance	
LGS 403	Estates & Trusts	
Total Hours		18

International Finance

		Hours
Students must major in Finance, take at least three years (six semesters) of foreign languages, and spend a semester abroad.		
EC 430	International Trade	3
FI 431	International Finance	3
EC 442	Economic Development of Latin America	3
Total Hours		9

Investment Management

		Hours
Students must major in Finance.		
AC 351	Managerl Acctg Decisions	3
FI 415	Adv Investment Topics	3
FI 419	Financial Derivatives	3
Total Hours		9

Personal Wealth Management

		Hours
AC 371	Introduction To Taxation	3
FI 341	Fundamentals of Risk Management & Insurance	3
FI 360	Personal Asset Mgt	3
FI 444	Life & Health Insurance	3
FI 460	Advanced Financial Planning	3
LGS 403	Estates & Trusts	3
Non-Finance majors will need to take FI 414 to sit for the CFP exam.		0-3
Total Hours		18-21

Quantitative Finance

		Hours
Students must major in Finance.		
MATH 125 & MATH 126 & MATH 227 & MATH 237	Calculus I and Calculus II and Calculus III and Introduction to Linear Algebra	15
EC 413	Economic Forecast & Analysis	3
FI 419	Financial Derivatives	3
ST 454 or MATH 355	Mathematical Statistics I Theory Of Probability	3
ST 455 or MATH 451	Mathematical Statistics II Math Stats W/Applictn I	3
Total Hours		27

Real Estate

		Hours
FI 331	Principles of Real Estate	3
FI 436	Real Estate Financing	3
Choose two of the following:		6
CE 463	Construction Cost Estimating	
FI 334	Intro to Real Estate Property Management	
FI 432	Real Estate Appraisal	
LGS 407	Real & Personal Propty	
Total Hours		12

Faculty

Department Head

Helms, Billy P.

Professors

Argawal, Anup

Brooks, Robert

Cook, Douglas O.

Cover, James P.

Elder, Harold W.

Enders, Walter

Gup, Benton E.

Holt, Matthew T.

Hoover, Gary A.

Lee, Junsoo

Ligon, James A.

Mcleod, Robert W.

Pecorino, Paul

Rabel, William H.

Schlesinger, Harris

Zumpano, Leonard

Associate Professor

Downs, Thomas

Henderson, Daniel J.

Jindapon, Paan

Reed, Robert R.

Underwood, Shane E.

Assistant Professor

Brummund, Peter

Chen, Susan E.

Cordero-Salas, Paula

Ellis, Jesse

Givens, Gregory E.

Ma, Jun

Mobbs, H. Shawn

Pflum, Kevin

Van Essen, Matthew

Instructors

Clements III, J. Sherwood

El-Karaksy, Hoda

Hall, Ruth Ann

Kim, Hoseong

Zirlott, Kent

Economics (EC) Courses

EC 110. Principles of Microeconomics. 3 sem. hrs.
Introduction to microeconomic analysis concentrating on consumer and producer behavior, competitive and imperfect markets, public policy and regulation, and income distribution.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

EC 111. Principles of Macroeconomics. 3 sem. hrs.
Introduction to macroeconomic analysis concentrating on national income, price levels, employment, monetary and fiscal policies, and international trade and development.
Prerequisite(s): EC 110.

EC 210. Microeconomic Policy Analysis. 3 sem. hrs.
This course uses economic analysis to examine a range of public policy issues.
Prerequisite(s): EC 110.

EC 211. Macroeconomic Policy Analysis. 3 sem. hrs.
Building on the macroeconomics background of EC 111, students will consider current national and international economic problems and issues.
Prerequisite(s): EC 111.

EC 300. Current Economic Problms. 3 sem. hrs.
Prerequisite(s): EC 110 and EC 111.

EC 308. Intermediate Microeconomics. 3 sem. hrs.
Examination of the theory of price and the theory of resource allocation. Topics include demand theory, production and cost functions, pricing and output under competitive and noncompetitive conditions, resource markets, and rudiments of general equilibrium analysis.
Prerequisite(s): MATH 121 or MATH 125; and EC 110 and EC 111.

EC 309. Intermediate Macroeconomics. 3 sem. hrs.
A study of the theoretical framework underlying income, employment, and growth analysis.
Prerequisite(s): EC 110 and EC 111.

EC 389. Computerized Mgt Info Systems. 3 sem. hrs.
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Students may not receive credit for EC 389 and FI 389.
Prerequisite(s): ST 260 or ST 250 and ST 251; and AC 210 and EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

EC 400. Analysis Econ Cond Micro.Macro. 3 sem. hrs.
Not open to majors in economics and finance. Uses basic economic theory to assess real-world business and economic conditions at the micro and macro levels.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and OM 300 and FI 302.

EC 410. Law And Economics. 3 sem. hrs.
This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 308.

EC 412. Industrial Organization. 3 sem. hrs.
Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.
Prerequisite(s): EC 308.

EC 413. Economic Forecast & Analysis. 3 sem. hrs.
Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 308 and EC 309.

EC 416. Monetary Theory & Policy. 3 sem. hrs.
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): EC 110 and EC 111.

EC 423. Public Finance. 3 sem. hrs.
Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308.

EC 430. International Trade. 3 sem. hrs.
Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.
Prerequisite(s): EC 308.

EC 431. International Finance. 3 sem. hrs.
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430.

EC 442. Economic Development of Latin America. 3 sem. hrs.
A comparative analysis of economic strategies, problems, issues, and policy outcomes with special attention given to Mexico, Costa Rica, Cuba, and Brazil.
Prerequisite(s): EC 110 and EC 111.

EC 444. Political Economy of Terrorism. 3 sem. hrs.
Rational actor models applied to the study of terrorism. Empirical examination of the economic impact of terrorism and of the effectiveness of anti-terrorism policies.
Prerequisite(s): EC 308.

EC 450. History of Economic Concepts. 3 sem. hrs.
Study of the development of economic theory from Adam Smith to the present day.
Prerequisite(s): EC 308 and EC 309.

EC 453. Comparative Economic Systems. 3 sem. hrs.
Comparative analysis of contrasting economic systems based on the type of ownership (private versus state) and on the coordinating mechanism (market versus central command). Emphasis is given to fundamental changes in economic systems that are currently under way.
Prerequisite(s): EC 110 and EC 111.

EC 470. Intro To Math Econ. 3 sem. hrs.
Application of selected mathematical methods to the analysis of economic problems.
Prerequisite(s): EC 309.

EC 471. Econometrics. 3 sem. hrs.
This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.
Prerequisite(s): MATH 121 or MATH 125; and ST 260 or ST 250 and ST 251; and EC 110 and EC 111.

EC 473. Games and Decisions. 3 sem. hrs.
An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.
Prerequisite(s): MATH 121 or MATH 125 with a minimum grade of C-.

EC 480. Econ Of Environment. 3 sem. hrs.
Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.
Prerequisite(s): EC 308.

EC 482. Seminar On Econ Issues. 3 sem. hrs.
Group discussion of current economic issues together with analysis and policy recommendations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111.

EC 483. Health Care Economics. 3 sem. hrs.
An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.
Prerequisite(s): EC 308.

EC 491. Independent Study. 1-6 sem. hr.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): EC 110 and EC 111.

EC 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111.

EC 497. Spec Topics In Economics. 1-3 sem. hr.
Prerequisite(s): EC 110 and EC 111.

Finance (FI) Courses

FI 101. Financial Economics. 3 sem. hrs.
A lower division course that bridges the gap between secondary school curriculum requirements for personal finance and upper division core course FI 302 Business Finance.

FI 301. Intro Financl Instit Mkt. 3 sem. hrs.
Overview of the financial systems in which business operates, with emphasis on financial institutions, instruments, and markets.

FI 302. Business Finance. 3 sem. hrs.
Study of financial objectives of business enterprise, sources of capital, and financial management of business assets. Emphasis is on establishing a framework for making financing, investing, and dividend decisions.

FI 314. Intro To Investing. 3 sem. hrs.

FI 331. Principles of Real Estate. 3 sem. hrs.
Survey of various aspects of real estate business and economics, including marketing, finance, development, law, appraising, etc. FI 331 can be taken concurrently with FI 302.
Prerequisite(s): FI 302 or CE 366 or ME 203
Prerequisite(s) with concurrency: FI 302.

FI 334. Intro to Real Estate Property Management. 3 sem. hrs.
Provides an introduction to the principles of real property management and covers all aspects of the property management process. Students are shown how to maximize the asset value of income-producing real estate for investors/owners through the use of finance, marketing, and management techniques. FI 334 can be taken concurrently with FI 331.
Prerequisite(s): EC 110 and EC 111 and FI 331
Prerequisite(s) with concurrency: FI 331.

FI 341. Fundamentals of Risk Management & Insurance. 3 sem. hrs.
Introductory study of life insurance and "personal lines" of property insurance, especially homeowners insurance and auto insurance. Economic environment of insurance and how to read and evaluate insurance contracts. Examines different types of life insurance contracts as well as savings and investment alternatives and their uses in estate planning.
Prerequisite(s): EC 110 and EC 111.

FI 360. Personal Asset Mgt. 3 sem. hrs.
To teach students about financial assets as vehicles for saving for the future. Students will also learn how to invest in a combination of assets to meet their objectives and how their objectives may change over their life span.

FI 389. Computerized Mgt Info Systems. 3 sem. hrs.
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111; and FI 302 or CE 366 or IE 203.

FI 400. Financl Instit Markets Investm. 3 sem. hrs.
Builds on the foundation laid in the business core to extend the student's knowledge of basic finance into the areas of operation and management of financial institutions and financial markets and investments.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and AC 210 and FI 302.

FI 410. Intermediate Financial Mgt. 3 sem. hrs.
Development of advanced practices of financial management and their application to decision making in the business firm.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 411. Corporate Finance Policy. 3 sem. hrs.
An integrative course designed to give the student experience in problem solving in finance. Cases will be used to permit students to apply what they know to specific business problems.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366
Prerequisite(s) with concurrency: FI 410 and FI 410.

FI 412. Money & Capital Market. 3 sem. hrs.
An overall view of the financing process and the role of financial markets.
Areas covered are characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 413. Working Capital Management. 3 sem. hrs.
FI 410 Students will develop the analytical expertise and the practical knowledge in the area of working capital management.
Prerequisite(s): FI 410.

FI 414. Investments. 3 sem. hrs.
Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 415. Adv Investment Topics. 3 sem. hrs.
Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.
Prerequisite(s): FI 414.

FI 416. Monetary Theory & Policy. 3 sem. hrs.
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): FI 301.

FI 419. Financial Derivatives. 3 sem. hrs.
Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
Prerequisite(s) with concurrency: FI 302 and FI 414.

FI 421. Bank Administration. 3 sem. hrs.
Survey of analytical methods in banking, including study of the powers of various government agencies. Emphasis is placed on managerial aspects of commercial banking.
Prerequisite(s): FI 301 and FI 302 or IE 203 or CE 366.

FI 423. Public Finance. 3 sem. hrs.
Study of principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308.

FI 431. International Finance. 3 sem. hrs.
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430.

FI 432. Real Estate Appraisal. 3 sem. hrs.
Study of the sources of real estate value and techniques for estimating property value; study of effective use of appraisal information.
Prerequisite(s): FI 302 or CE 366 or IE 203.

FI 436. Real Estate Financing. 3 sem. hrs.
Study of the institutions of real estate finance and of factors affecting the flow of funds; investment analysis and procedures involved in real estate financing.
Prerequisite(s): FI 302 or CE 366 or IE 203.

FI 442. Business Risk Mgt. 3 sem. hrs.
Analysis of risks facing business and governmental entities. Various methods of both controlling the risks and financing the risks, including both insurance and non-insurance alternatives.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 443. Property Liability Insur. 3 sem. hrs.
Current financial, legal, and social problems concerning the property-liability insurance industry. Role of government in providing insurance and topics in the management of property-liability insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 444. Life & Health Insurance. 3 sem. hrs.
Detailed analysis of life insurance and health insurance with emphasis on their role in employee-benefit planning. Specific provisions of qualified retirement plans. Current problems facing the life insurance industry and analysis of the distribution system for life and health insurance. Topics in management of life and health insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 460. Advanced Financial Planning. 3 sem. hrs.
The purpose of this course is to require the student to demonstrate the ability to integrate and apply his or her knowledge of financial planning topics as received through the curricula taught in the Wealth Management Concentration. Through this course, you will apply the financial planning process to real-life situations and to communicate your planning recommendations via both a written plan and an oral presentation.
Prerequisite(s): AC 371, FI 341, FI 360 and LGS 403
Prerequisite(s) with concurrency: FI 414 and FI 444.

FI 491. Independent Study. 1-6 sem. hr.
Students may earn degree credit for only one independent study course (491). Individually directed research and reading.
Prerequisite(s): EC 110 and EC 111.

FI 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111.

FI 497. Spec Topics In Finance. 1-3 sem. hr.
Prerequisite(s): EC 110 and EC 111.

Legal Studies (LGS) Courses

LGS 200. Legal Environmt Business. 3 sem. hrs.
Environmental approach to the study of law, including the way the law interrelates, philosophy of law, and sources of law. The relationship among law, business, political influences, and the society is treated.

LGS 350. Crimes Torts Bus Envirn. 3 sem. hrs.

LGS 402. Government & Business. 3 sem. hrs.
This course is designed to give students some information about the regulations which government may or may not impose upon business, leaving students free to form their own conclusions as to their wisdom, adequacy, and practicability. Survey of basic constitutional principles and legal aspects of recent federal legislation affecting business and antitrust laws.
Prerequisite(s): LGS 200 and EC 111.

LGS 403. Estates & Trusts. 3 sem. hrs.
This course treats principles and rules of law relating to wills and inheritances; how the estates of deceased persons are administered; why and how trusts are created and operated; and the duties and settlement of executors, administrators, and trustees.
Prerequisite(s): LGS 200.

LGS 407. Real & Personal Propty. 3 sem. hrs.
This course is concerned with the conveyance of property, deeds, covenants, condemnation of property, rights of landlord and tenant, and bailments.
Prerequisite(s): LGS 200.

LGS 472. Legal Aspect Hlth Care. 3 sem. hrs.
Examines aspects of the law that are of most concern to individuals in health care management, including administrative law, hospital law, welfare law, public health law, and licensing and legislation.
Prerequisite(s): LGS 200 and HCM 370.

LGS 497. Special Topics. 1-3 sem. hr.
Prerequisite(s): LGS 200.

Department of Information Systems, Statistics and Management Science

Professor Charles R. Sox, Department Head
Office: 300 Alston Hall

The Department of Information Systems, Statistics and Management Science provides students with opportunities to learn about the design and development of information systems, the application of statistical analysis to support business decision making, and the design and analysis of business operations and processes. The Department is composed of three functional areas: Management Information Systems, Operations Management and Statistics.

The Management Information Systems (MIS) faculty offer an introductory course in MIS as well as courses for students majoring in MIS and students specializing in Business Information Technology, eDecision Support, or Health Information Systems. The MIS program partners with a range of different businesses and organizations to prepare students to leverage information technology to solve business problems.

The Operations Management faculty offer introductory courses in Operations as well as courses for students majoring in Operations Management and those students specializing in Supply Chain Management or Production Management. The OM program has strong relationships with manufacturers, distributors, retailers, transportation carriers and logistics service providers.

The Statistics faculty offer introductory Statistics courses for undergraduate students as well as for students specializing in Business Intelligence. The Statistics program supports the business analytics initiative for the college and has strong partnerships with leading providers of business analytics software.

Majors
Management Information Systems
Operations Management

Specializations
MIS
- Business Information Technology
- e-Decision Support
- Health Information Systems

OM
- Production Management
- Supply Chain Management

Statistics
- Business Intelligence

Management Information Systems Major

Program Director: David Hale
Academic Adviser: Heather Davis

The MIS program focuses on the innovation of business oriented information technology to open new markets and improve business operations by leveraging information systems. Students learn to combine their knowledge of core business and technology to excel in future careers roles such as business analyst, consultant or app designer. Graduates choose from opportunities in consulting, corporate, government, not-for-profit and start-up organizations.

The program culminates with a two semester industry sponsored practicum project that starts with situational analysis, then proceeds through cause and effect analysis, determining the features needed to solve the problem, and then designing, building, testing and delivering the business solution. This emphasis on experiential learning through application of classroom concepts results in graduates that are highly sought after by firms across the nation.

Continual client feedback and faculty guidance ensure project success and educational growth. Students in MIS are encouraged to broaden their business and international knowledge through a specialization in heath care management, marketing, accounting, finance, operations management or international studies/ foreign language. The MIS program and corporations sponsor over 90 scholarships solely for MIS majors. Prospective students are encouraged find out more about the MIS program by visiting cba.ua.edu/mis and calling the program office at (205) 348-5525 to set up a visit with a student ambassador or faculty member.

Admission and Retention Policies

Each prospective MIS student must submit an application verifying that all admission criteria have been met. A student is eligible for admission if he or she:

- meets the admission criteria to the upper division of the Culverhouse College of Commerce and Business Administration
- has completed at least 60 semester hours of college credit with a cumulative GPA of 2.5 or higher for all coursework attempted or a GPA of at least 3.0 for the last 30 hours attempted
- has completed CS 120 Business Programming I and MIS 295 Business Analysis Project Mgt with grades of C- or better

MIS 295 Business Analysis Project Mgt is recommended for second-semester freshmen or sophomores who are interested in majoring in MIS. MIS 200 Fundamentals Mgt Info Systems is an introductory course for non-majors and can be taken by freshmen.

MIS majors must complete all required MIS courses with a grade of C- or better. A student who enrolls in any of the required MIS courses twice and fails to earn a passing grade will not be permitted to take additional MIS courses or to receive a degree with MIS as the major from The University of Alabama. Enrollment is defined as registration for a course that results in the recording of hours attempted on the student's record. A grade of W is counted as an enrollment. Priority for enrollment in upper-division MIS courses is given to students who are not repeating the courses.

Major Program Requirements		Hours
MIS 320	Applicatn & Informtn Architect	3
MIS 330	Database Administration	3
MIS 430	Systems Analysis & Design I	3
MIS 431	Systems Analysis & Design II	3
MIS 450	Systems Constructn Implemtn I	3
MIS 451	Systems Constructn Implemtn II	3
Total Hours		18

Operations Management Major

Faculty Advisers: Charles Sox and William Petty
Academic Adviser: Heather Davis

Operations management focuses on the effective management of the resources and activities that produce and deliver the goods and services of any business. OM professionals manage the people, materials, equipment and information resources that a business needs in order to produce and deliver its goods and services. They also design and manage the business processes and activities that actually produce those goods and services.

Business operations are a critical element of every business, so there are a wide range of opportunities for OM professionals. Manufacturing management has been — and continues to be — a significant area of opportunity. The tremendous growth of the automotive industry in the state of Alabama has produced great

job opportunities for OM professionals with major automobile manufacturers and their suppliers. OM professionals can also pursue careers in the distribution and warehousing of products, as well as transportation and logistics operations. The entire field of supply chain management relies heavily on the effective management and coordination of business operations, from manufacturing to transportation and distribution. Whether products sold in the U.S. are manufactured overseas or in the U.S., some part of the supply chain is operated and managed in the U.S.

The growth of service industries in the state (e.g. banking) also provides opportunities for OM professionals to manage business operations in service-oriented companies. OM professionals hold a wide range of different job titles, such as materials manager, production planner, scheduler, inventory manager, transportation/logistics manager, purchasing/procurement manager, supply chain manager and quality manager. However, they all employ OM techniques and concepts to effectively manage the resources and processes of their business operations. Because OM professionals are familiar with the resources and operations that are critical to success, they are often well-positioned for promotion to upper levels of business management. OM majors must take to complete their computer (C-designation) requirement.

Admission and Retention Policies

Each prospective OM student must submit an application demonstrating that all criteria for admission have been met. Students are eligible for admission if they meet the criteria for admission to the upper division of the College of Commerce and Business Administration. A student whose grade point average falls below these standards may petition for admission to the upper division and declare Operations Management if the student's grade point average for the last 30 hours attempted at this institution is 2.5 or higher.

Operations Management majors must complete all required OM courses with a grade of C- or better on at least one attempt. A student who enrolls in any of these courses twice and fails to make a grade of C- or better on at least one attempt will not be permitted to take additional OM courses without special permission. Enrollment is defined as registration for a course resulting in the recording of hours attempted on the student's record. Priority for enrollment in upper-division OM courses is given to students who are not repeating the courses.

Major Program Requirements

		Hours
OM 310	Introduction Management Scienc	3
OM 321	Prod Planning & Contrl	3
OM 375	Statistical Quality Control	3
OM 420	Computer Simulation	3
OM 422	Operations Scheduling	3
OM 423	Inventory Management	3
Total Hours		18

Specializations in MIS

Business Information Technology

		Hours
CS 120	Business Programming I	0 or 3
CS 220	Business Programming II	3
MIS 295	Business Analysis Project Mgt	3
MIS 320	Applicatn & Informtn Architect	3
MIS 330	Database Administration	3
MIS 340	Data Com in a Global Environ.	3
Total Hours		15

e-Decision Support

		Hours
MIS 200	Fundamentals Mgt Info Systems	3
MIS 340	Data Com in a Global Environ.	3
MIS 440	Decision Support Systems	3
Total Hours		9

Health Information Systems

		Hours
HCM 370	Intro Health Systems	3
HCM 371	Management Health Care Organzt	3
HCM 478	Health Care Information Systems	3
Students in majors other than MIS must also take the following courses:		0-6
MIS 200	Fundamentals Mgt Info Systems	
MIS 310	Applied Organizational Information Technologies	
Total Hours		9-15

Specializations in OM

Production Management

		Hours
Students must major in Operations Management.		
OM 425	Effective Quality Management	3
OM 487	Capstone Project Seminar	3
OM 497	Special Topics	3
OM Elective		3
Total Hours		12

Supply Chain Management

		Hours
OM 417	Logistics Management	3
OM 427	Purchasing and Sourcing	3
MKT 422	Supply Chain Strategy	3
MKT 460	Export/Import Management	3
Total Hours		12

Specializations in Statistics

Business Intelligence

		Hours
OM 310	Introduction Management Scienc	3
MIS 440	Decision Support Systems	3
ST 451	Stat Methods In Res II	3
Total Hours		9

Faculty

Department Head

Sox, Charles

Professors

Adams, Michael

Chakraborti, Subha

Gray, Brian

Hale, David

Hale, Joanne

Hardin, J. Michael

Miller, David

Mansfield, Edward

Schmidt, Charles

Associate professors

Barrett, Bruce

Kacmar, Charles

Keskin, Burcu

Lodree, Emmett

McManus, Denise

Melouk, Sharif

Mittenthal, John

Perry, Marcus

Raja, Uzma

Assistant professors

Melnykov, Volodymyr

Posey, Clay

Instructors

Doherty, Richard

Hogan, Robert

Machtolff, Andrew

Petty, William

Management Information Systems (MIS) Courses

MIS 120. Business Programming I. 3 sem. hrs.
First computing class designed for students that will be majoring in Management Information Systems.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 126 or MATH 146.

MIS 200. Fundamentals Mgt Info Systems. 3 sem. hrs.
Business process coordination and decision making through the use of information technology will be explored, emphasizing IT use by organizations in increasingly global markets.
Prerequisite(s): CS 102 or PLCS 380.

MIS 295. Business Analysis Project Mgt. 3 sem. hrs.
An introduction to the fundamental concepts of business-process analysis, team-based project management, and use of information technology resources to develop information systems. Emphasis is placed on creating business value in systems ranging from transactional processing to e-commerce.
Prerequisite(s): CS 120 with concurrency OR CS 150 with concurrency
Prerequisite(s) with concurrency: CS 150 or CS 120.

MIS 310. Applied Organizational Information Technologies. 3 sem. hrs.
Students learn the IS development process and how to leverage underlying organizational IT components. Provides non-technology major students with the essentials of how IS are developed and used. Emphasis is on databases, data networks, mobile computing, and decision support.
Prerequisite(s): CS 102 or CS 120.

MIS 320. Applicatn & Informtn Architect. 3 sem. hrs.
The study and application of software engineering, application patterns, and file structures. Students design, construct, and test software structures for effective information management.
Prerequisite(s): MIS 295 and CS 220.

MIS 330. Database Administration. 3 sem. hrs.
Logical data modeling, RDBMS, and their use in the business enterprise are presented. Topics include anomalies/normalization, database-connections performance, n-tier architecture, query operations, stored processes and integrity triggers, and Web applications.
Prerequisite(s): MIS 295; and CS 120 or CS 150.

MIS 340. Data Com in a Global Environ. 3 sem. hrs.
Enabling international exchange of digital data to support business operations. Cultural, legal, security and operational requirements coupled with international standards evaluated in multiple network architectural configurations supporting transactional knowledge workers, e-business and e-commerce applications.
Prerequisite(s): MIS 200 or MIS 295; and CS 120 or CS 150.

MIS 430. Systems Analysis & Design I. 3 sem. hrs.
Intermediate-level skills in systems analysis and design techniques are presented. Emphasis is placed on systems development and delivery tools, methods, standards, and processes.
Prerequisite(s): MIS 320 and MIS 330
Prerequisite(s) with concurrency: MIS 450.

MIS 431. Systems Analysis & Design II. 3 sem. hrs.
Advanced-level skills in systems analysis and design techniques are presented. Emphasis is placed on enterprise-level systems development, creation of tailored methodologies, creation of architectural standards, metrics, and business strategy alignment.
Prerequisite(s): MIS 340 and MIS 430 and MIS 450
Prerequisite(s) with concurrency: MIS 451.

MIS 440. Decision Support Systems. 3 sem. hrs.
This course assesses information and process requirements to support business decisions in organizations. Students conceptualize, design, develop, and deliver model-based information systems designed to support effective managerial decision making.
Prerequisite(s): MIS 200 or MIS 295.

MIS 450. Systems Constructn Implemtn I. 3 sem. hrs.
Leveraging software development skills from prior MIS and CS courses, students construct, test, and deploy IT-based business solutions.
Prerequisite(s): MIS 320 and MIS 330
Prerequisite(s) with concurrency: MIS 430.

MIS 451. Systems Constructn Implemtn II. 3 sem. hrs.
Development of advanced software engineering skills to develop, deploy, test, document, and assess large-scale IT-based business solutions. Conversion, migration, training, maintenance, and operations plans and budget are emphasized.
Prerequisite(s): MIS 340 and MIS 430 and MIS 450
Prerequisite(s) with concurrency: MIS 431.

MIS 491. Independent Study. 1-3 sem. hr.

MIS 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services. Students may earn degree credit for only one internship (492).

MIS 497. Special Topics. 3 sem. hrs.
Special topics in MIS.

Operations Management (OM) Courses

OM 300. Intro Operations Management. 3 sem. hrs.
This course is an introduction to the field of operations management and addresses the design and management of the activities and resources that a firm uses to produce and deliver its products or services. Topics include operations strategy, product and process design, total quality management, statistical quality control, supply chain management, location analysis, forecasting, inventory management, operations planning, and lean/JIT business processes.
Prerequisite(s): ST 260.

OM 310. Introduction Management Scienc. 3 sem. hrs.
Concepts of management science and their application to decision making. Topics include linear programming, transportation models, integer programming, dynamic programming, queuing theory, decision theory, and network models.
Prerequisite(s): OM 300.

OM 321. Prod Planning & Contrl. 3 sem. hrs.
The planning and control of production and service systems. Attention is given to forecasting, operations planning, scheduling, materials management, and operations control.
Prerequisite(s): OM 300.

OM 360. Comparative Production Systems. 3 sem. hrs.

OM 375. Statistical Quality Control. 3 sem. hrs.
Statistical methods useful in control of quality of manufactured products. Topics include Shewhart and cumulative sum control charts; process capability analysis; and acceptance sampling procedures by attributes and variables. Emphasis is on understanding, design, implementation, and interpretation of these techniques.

OM 385. Information Tech Oper Mgt. 3 sem. hrs.
Introduction to the components of management information systems and applications of computer-based systems to business decisions. Open only to OM majors or by permission of the instructor. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): ST 260 or ST 250 and ST 251.

OM 417. Logistics Management. 3 sem. hrs.
Logistics deals with the planning and control of material flows and related information in organizations. This course covers logistics systems planning, organization, and control of these activities with a special emphasis on quantitative aspects of the decisions.
Prerequisite(s): OM 300.

OM 420. Computer Simulation. 3 sem. hrs.
The use of simulation as a tool to understand and improve the performance of complex systems and processes. Students will learn the details of a specific simulation language. Applications to production processes and operational activities. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): OM 310.

OM 422. Operations Scheduling. 3 sem. hrs.
A broad investigation into a variety of scheduling activities in a variety of environments. Topics include scheduling as applied to projects, job-shops, assembly lines, parallel machine systems, workforce, and transportation.
Prerequisite(s): OM 321.

OM 423. Inventory Management. 3 sem. hrs.
Control techniques for the large multi-item inventories frequently associated with manufacturing supply and wholesale-retail operations. The limitations and usefulness of models in actual practice.
Prerequisite(s): OM 321.

OM 425. Effective Quality Management. 3 sem. hrs.
Provides a broad understanding of the philosophies and methods used to enhance organizational effectiveness in a wide range of organizational settings.

OM 427. Purchasing and Sourcing. 3 sem. hrs.
Course covers fundamental purchasing systems applications, supplier relations and evaluation, strategic planning in purchasing, purchasing techniques, value analysis and cost analysis.
Prerequisite(s): OM 300.

OM 450. Process Mgmt & Improvement. 3 sem. hrs.
An analytical study of strategies, tactics, and techniques for designing, evaluating and analyzing, controlling and improving processes. Emphasis is on topics such as Design for Flexibility, Lean, Six Sigma, Constraint Management will all be included along with process application of OM analytical tools such as simulation, queuing analysis, and value stream mapping.
Prerequisite(s): OM 300.

OM 487. Capstone Project Seminar. 3 sem. hrs.
Course addresses the design, operation, and continuous improvement of business operations that deliver products and services. Students will work in teams on an operations oriented project with a local company. The student teams will provide periodic reports and presentations on their project work.
Prerequisite(s): OM 300.

OM 491. Independent Study. 3 sem. hrs.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): OM 300.

OM 492. Internship In Operations Mgt. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations.

OM 497. Special Topics. 3 sem. hrs.

Statistics (ST) Courses

ST 260. Statistical Data Analysis. 3 sem. hrs.
Introduction to the use of basic statistical concepts in business applications. Topics include extensive graphing; descriptive statistics; measures of central tendency and variation; regression, including transformations for curvature; sampling techniques; designs; conditional probability; random variables; probability distributions; sampling distributions; confidence intervals; and statistical inference. Computer software applications are utilized extensively. Emphasis throughout the course in on interpretation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 or CS 150 or CS 120 or GES 131 or GES 145 or PLCS 380.

ST 450. Stat Methods In Res I. 3 sem. hrs.
Development of fundamental concepts of organizing, exploring, and summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on methods and on selecting proper statistical techniques for analyzing real situations.

ST 451. Stat Methods In Res II. 3 sem. hrs.
Analysis of variance and design of experiments, including randomization, replication, and blocking; multiple comparisons; correlation; simple and multiple regression techniques, including variable selection, detection of outliers, and model diagnostics. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on appropriate analysis of data in real situations.
Prerequisite(s): ST 450 or GES 255.

ST 452. Applied Regression Analysis. 3 sem. hrs.
Data analysis using multiple linear regression, including residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques and co-linearity. Logistic regression uses similarly discussed for dealing with binary valued independent variables.
Prerequisite(s): ST 260.

ST 454. Mathematical Statistics I. 3 sem. hrs.
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.
Prerequisite(s): MATH 227.

ST 455. Mathematical Statistics II. 3 sem. hrs.
Theory of order statistics, point estimation, interval estimation, and hypothesis testing.
Prerequisite(s): ST 454.

ST 497. Special Topics. 3 sem. hrs.

Department of Management and Marketing

Professor Diane E. Johnson, Department Head
Office: 104 Alston Hall

Educational experiences offered through coursework in the Department of Management and Marketing have broad appeal to students seeking a business degree that will prepare them to work with people — including customers, employees, suppliers and government agencies. By working with our faculty through the various management and marketing courses available, students improve their skills in communication, leadership, innovation and decision making with an understanding of how these skills can be aided by technology and applied in a global business environment.

Faculty in the Department of Management and Marketing are committed to providing the best learning experiences for students, contributing to the creation of knowledge in their areas of expertise through path-breaking research and serving the many constituencies of the community.

The Department of Management and Marketing is home to these majors and specializations:

Majors

- Management
- Marketing

Management Specializations

- Entrepreneurship
- Health Care Management
- Human Resources Management
- Management Communication

Marketing Specializations

- Global Business
- Professional Sales
- Services Marketing

Major in Management

Faculty Advisers: Williams (MGT, HCM and GBA), Richey (IBA)

Management is a major that focuses on the crucial processes by which the resources of an organization are systematically directed toward the achievement of its mission. Management majors gain the flexibility to apply their skills in a variety of settings. Some graduates work in international management, others go on to work in small business environments, and still others begin their professional careers as management trainees in large organizations.

Management		Hours
IBA 350	Intro World Business	3
MGT 301	Intro Human Resource Mgt	3
MGT 320	Leadership	3
MGT 341	Business Ethics	3
MGT 386	Foundations of Entrepreneurshi	3
Choose one of the following:		3
HCM 370	Intro Health Systems	
MGT 420	Organizational Change	
MGT 492	Internship In Hrm	
or any 300- or 400-level GBA, IBA, HCM, or MGT course with departmental permission. Any prerequisites for the course must be completed, and the course cannot count toward any Management specialization.		
Total Hours		18

Major in Marketing

Faculty Advisers: Mothersbaugh, Beatty, Calamusa, Ellinger, Rapp, Reynolds, Richey

Marketing is primarily concerned with two main concepts: the identification and assessment of consumer and industrial market needs, and the development of marketing programs to satisfy those needs. Marketing personnel in profit and nonprofit organizations analyze markets and industries to define new opportunities and refine existing opportunities. Marketers are also responsible for developing and managing products and services, along with promotion, distribution and pricing appropriate to the targeted market opportunities. Students who major in marketing enjoy a wide range of employment opportunities. These include sales and sales management, services marketing, retailing, brand management, market research, distribution and logistics, and advertising.

Marketing

		Hours
A minimum grade of C- is required for each course.		
MKT 313	Consumer Behavior	3
MKT 337	Personal Selling	3
MKT 410	Managing Innovation	3
MKT 411	Supply Chain Management	3
MKT 473	Marketing Research	3
MKT 487	Strategic Marketing	3
Total Hours		18

Major in General Business

Faculty Adviser: Williams

The general business major program is designed for students desiring a broad understanding of business that spans all facets of the business enterprise and provides students with a broad philosophical and economic perspective about business operations.

This major is intended for business students who wish to gain breadth within their undergraduate studies. It is particularly appropriate for students who wish to combine a study of business with a minor or extended coursework in a non-business field. The general business major is also suitable for students who intend to pursue a specialized master's degree in business or who are interested in law school or other professional fields.

A minimum grade point average of 2.0 is required for admission to the general business major.

General Business

		Hours
AC 351 or	Managerl Acctg Decisions	3
AC 352	Corporate Financl Report	
FI 400 or	Financl Instit Markets Investm	3
FI 301	Intro Financl Instit Mkt	
EC 400 or	Analysis Econ Cond Micro.Macro or	3
EC 308	Intermediate Microeconomics	
EC 309	Intermediate Macroeconomics	
MIS 200	Fundamentals Mgt Info Systems	3
MGT 320 or	Leadership or or	3
MGT 341	Business Ethics	
MGT 386	Foundations of Entrepreneurshi	
IBA 350	Intro World Business	
MKT 310 or	Principles of Social Media or or or	3
MKT 313	Consumer Behavior	
MKT 321	Retail Management	
MKT 337	Personal Selling	
MKT 444	Promotional Management	
Total Hours		18

Specializations in Management

Entrepreneurship

The mission of the Culverhouse Entrepreneurship specialization can be summarized in two words: innovation and opportunity. Students in the Entrepreneurship specialization learn how to promote innovation and how to identify, develop, and capitalize on valuable opportunities by founding new ventures and by enhancing innovation in family firms and corporate settings.

Entrepreneurship

		Hours
MGT 482	New Venture Development	3
MGT 486	Small Business Consultng	3
MKT 473	Marketing Research	3
Total Hours		9

Health Care Management

The Health Care Management specialization provides undergraduate students with the skills to work in a variety of health care settings. Graduates are employed in positions ranging from administrative assistants of large urban hospitals to assistant directors of rural nursing homes to medical group practice managers to analysts in consulting firms. The HCM program is fully certified by AUPHA. Students complete specialized courses in health systems, management of health care organizations, issues in health care management, and an internship.

Health Care Management

		Hours
HCM 370	Intro Health Systems	3
HCM 371	Management Health Care Organzt	3
HCM 473	Survey Issues Health Care Mgt	3
HCM 492	Internship	3
Total Hours		12

Human Resources Management

The Human Resources specialization develops skills for the effective management of human resource issues in organizations. The four-course sequence trains students to solve human resource problems ranging from organizational entry to separation and all phases in between. This specialization also prepares students to sit for the Assurance of Learning Assessment, an accreditation exam sponsored by SHRM. This is a 15-hour specialization; students must take the two required courses plus three of the four electives listed below.

Human Resources Management

		Hours
MGT 301	Intro Human Resource Mgt	3
MGT 437	Strategic Human Resource Management	3
Choose 3 of the following:		9
MGT 431	Human Resources Selection and Placement	
MGT 432	Employee Relations	
MGT 433	Compensation and Performance Management	
MGT 434	Training and Development	
Total Hours		15

Management Communication

The courses in this specialization help students manage what they communicate as young professionals. They improve the impression they make when communicating orally and visually. They exercise their emotional intelligence to gain acceptance as leaders when communicating interpersonally. They gain professional experience by consulting with a client about a workplace document using their interpersonal, oral, visual and written communication skills. Students get hands-on, in-class practice with individual mentoring in all three classes.

Management Communication

		Hours
MGT 412	Mgt Presentations	3
MGT 422	Leadership Communication	3
MGT 452	Management Communication Projects	3
Total Hours		9

Specializations in Marketing

Global Business

The globalization of business is a critical reality to those operating in the modern business world. Understanding cross-cultural differences in markets and business practices and adopting a global competitive mindset is critical to the success of today's business leaders. The global business specialization is designed for students who are interested in entering the global arena. This program is designed for students of any major, with electives that span such areas as marketing, management, economics and finance. Due to the nature of global

business, this specialization requires 26 total hours, including an overseas study component, plus two years of a foreign language of the student's choice.

Global Business		Hours
IBA 350	Intro World Business	3
IBA 351	Multinatl Business Communctn	3
Approved Study Abroad Elective		3
Language requirement: two years (four semesters) of one foreign language		12-14
Elective Course (choose one):		3
IBA 460	Export/Import Management	
EC 430	International Trade	
EC 442	Economic Development of Latin America	
EC 431 or	International Finance	
FI 431	International Finance	
EC 453	Comparative Economic Systems	
Total Hours		24-26

Professional Sales

Professional Sales is a program of preparation for students that want to fast-track their business careers. This concentration provides (1) practical application of sales and self-preservation techniques, (2) access and exposure to business recruiters from Fortune 100 companies, and (3) valuable persuasion and communication skills that can be used to advance any career in business. Professional Sales is a career that is very much in demand. There are still more job openings than qualified applicants. Also, the benefits and compensation packages for Professional Sales positions make it one of the highest paid fields in marketing.

Professional Sales		Hours
MKT 337	Personal Selling (will count toward the Marketing major)	3
MKT 338	Sales Management	3
MKT 437	Advanced Selling	3
MKT 439	Key Account Management	3
Total Hours		12

Services Marketing

Services are now a major driver of the U.S. and world economy. Therefore, marketing and management in the areas of people, business process and the design of physical space are of great importance. The ability to understand, map, design and re-design business service processes, flow and physical space across the value chain is critical as is the ability to manage service employees and teams. Services marketing is a specialization designed for students interested in working in and managing teams of people to analyze, develop and deliver world-class service, manage customer relationships and work cross-functionally with other aspects of the organization such as sales, logistics and operations.

Services Marketing		Hours
MKT 376	Services Marketing	3
MKT 476	Services Management	3
MKT 477	Advanced Services Marketing	3
Total Hours		9

Faculty

Department Head

Diane E. Johnson

Professors

Arthur W. Allaway

Sharon E. Beatty

Kim S. Campbell

James Combs

Ronald E. Dulek

Alexander E. Ellinger

George R. Franke

William E. Jackson, III

Diane E. Johnson

Michele K. Kacmar

Louis Marino

Robert M. Morgan

David L. Mothersbaugh

Kristy E. Reynolds

A.J. Strickland, III

Eric S. Williams

Associate professors

Daniel E. Bachrach

Thomas L. Baker

Giles D. D'Souza

Jullet A. Davis

Lenita M. Davis

Paul L. Drnevich

Jonathon Halbesleben

James E. King

Jeffrey A. Martin

Adam A. Rapp

Glenn R. Richey, Jr.

Assistant professors

Craig E. Armstrong

Jack Clampit

Valentina Marano

Nikolaos Panagopoulos

Jase R. Ramsey

Marilyn V. Whitman

Instructors

James P. Brown

Joe Calamusa

Michael Catalano

Jessica N. Crew

David M. Ford

Ashley George

Chapman Greer

Allen Henry

J. Gorman Houston

Joyce Meyer

Jefrey Naidoo

Helenka Nolan

General Business Administration (GBA) Courses

GBA 145. Freshman Compass: CBA. 1 sem. hr.
An introduction to the Culverhouse College of Commerce and Business Administration. Topics include adjustment to college life, study skills, career exploration, and majors offered in the College.

GBA 171. STEM Business Honors I. 1.5 sem. hr.
This course introduces STEM students to critical and innovative thinking as it pertains to the issues of today's business environment, while providing a modest introduction to basic economics and the global marketplace. The course begins to introduce business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to develop an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opporunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA.

GBA 172. STEM Business Honors II. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the iussues of today's business environment, while providing a modest introduction to business ethics, business ownership structures, and entrepreneurship. The course continues to develop business model design as a tool to better understand how to operate. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171.

GBA 271. STEM Business Honors III. 1.5 sem. hr.
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to management roles, teamwork, and productive systems. The course continues to develop business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to work in teams, with a goal of developing skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172.

GBA 272. STEM Business Honors IV. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to employee motivation, human resources management, and labor relations. The course continues to develop business model design as a tool to better understand how businesses operate, while introducing human centered design for designing business processes and products. In addition, the course will provide appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271.

GBA 300. Business Communications. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111 and LGS 200 and AC 210 or AC 201 and AC 202; and MATH 112 or MATH 115 or MATH 121 or MATH 125; and ST 260 or ST 250 and ST 251.

GBA 310. Introduction Corporate America. 3 sem. hrs.

GBA 334. Introduction to Fraud Risk Management. 3 sem. hrs.
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, dectection, and follow-up.
Prerequisite(s): AC 210.

GBA 371. STEM Business Honors V. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to marketing, product and pricing issues, distribution and logistics, and customer communication. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for designing business processes and products. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272.

GBA 372. STEM Business Honors VI. 1.5 sem. hr.
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to financial information and accounting concepts, financial management, financial markets & investment strategies and the money supply and banking systems. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272, GBA 371.

GBA 481. Business Honors Seminar I. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 482. Business Honors Seminar II. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 483. Business Honors Seminar III. 0.5-1.5 sem. hrs.
This courses is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 484. Business Honors Seminar IV. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 490. Strategic Management. 3 sem. hrs.
Examination of the managerial tasks of crafting and implementing strategic plans and the tools of strategic analysis. Students gain hands-on experience with tools and concepts of strategic management by participating in a business strategy simulation exercise and by analyzing actual companies.
Prerequisite(s): AC 210 and EC 110 and EC 111 and LGS 200 and ST 260 AND MATH 121 OR MATH 125
Prerequisite(s) with concurrency: MGT 300 and MKT 300 and OM 300 and FI 302 and GBA 300.

GBA 491. Independent Study. 3 sem. hrs.
Independent study in library or primary research. Not open to graduate students.

Health Care Management (HCM) Courses

HCM 370. Intro Health Systems. 3 sem. hrs.
Detailed study of components of the health care delivery system in the United States. The course emphasizes history, roles, and interactions of the various providers, consumers, and governments.
Prerequisite(s): MATH 121 or MATH 125; and AC 210 and LGS 200 and ST 260 and CS 102
Prerequisite(s) with concurrency: MGT 300.

HCM 371. Management Health Care Organzt. 3 sem. hrs.
Analysis of operations within health care institutions.
Prerequisite(s): HCM 370.

HCM 473. Survey Issues Health Care Mgt. 3 sem. hrs.
Examination of current issues in health care, including health care policies and their effect on the health care industry.
Prerequisite(s) with concurrency: HCM 370 and HCM 371.

HCM 476. Prin Of Long-Term Care. 3 sem. hrs.
The focus of this class will be on organizational platforms for delivering long-term health care, licensing and regulatory issues facing long-term care and operational and strategic issues facing long-term care.
Prerequisite(s): HCM 371.

HCM 477. Prin Ambulatory Care Managemen. 3 sem. hrs.
The purpose of this course is to help students understand the management issues in today's ambulatory care sector.
Prerequisite(s): HCM 371.

HCM 478. Health Care Information Systems. 3 sem. hrs.
Study of healthcare clinical and administrative systems in the acute, ambulatory, long-term care, and home-health environments. Electronic health records, confidentiality, privacy and admissibility issues are addressed.
Prerequisite(s): HCM 370 AND MGT 300 AND (MIS 200 OR MIS 300 OR MIS 295).

HCM 491. Independent Study. 3 sem. hrs.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251; and LGS 200.

HCM 492. Internship. 3 sem. hrs.
Supervised administrative work experience in the health care industry.

International Business Administration (IBA) Courses

IBA 250. Context of Glob Bus. 3 sem. hrs.
Broad introduction to international business providing students with an overview of the terms and concepts key to a better understanding of the complex business environment across the world's interrelated economies.
Prerequisite(s): EC 110 and EC 111.

IBA 350. Intro World Business. 3 sem. hrs.
This course examines the conduct of business across national boundaries and the impact of different cultures on business practices.
Prerequisite(s): MGT 300 or MKT 300.

IBA 351. Multinatl Business Communctn. 3 sem. hrs.
A study of the principles and practices of intercultural business communication, written and personal. The course requires substantial reading. The focus is on making students aware of the sources of common intercultural business communication problems, and on helping them develop strategies to avoid or correct these problems.
Prerequisite(s): MGT 300 or MKT 300.

IBA 455. Global Marketing. 3 sem. hrs.
A course in marketing theory and methods as they apply to world markets. Among the topics discussed are: the importance of linking international marketing with the overall strategy of the business while examining the impact of cultural, political and legal issues and the economic differences in global strategies. Emphasis is placed on developing the marketing mix appropriate to various international global environments.

IBA 460. Export/Import Management. 3 sem. hrs.
This course includes a thorough examination of the export-import management process and highlights its importance in international business strategy.
Prerequisite(s): IBA 350.

IBA 497. Special Topics: Ind. Study. 3 sem. hrs.

Management (MGT) Courses

MGT 300. Org Theory & Behavior. 3 sem. hrs.
A course designed to help students understand organizational theory, interpersonal communication, and other behavioral science concepts and then integrate them into managerial tools for effective use in business, industry, and public-sector organizations.
Prerequisite(s): MATH 121 or MATH 125 or MATH 126; and ST 260 and LGS 200 and EC 110 and AC 210.

MGT 301. Intro Human Resource Mgt. 3 sem. hrs.
Introductory course surveying problems and issues in labor economics, personnel management, and labor relations. Emphasis is placed on public policies affecting management and union representatives and on the role of the human resources manager in the organization.
Prerequisite(s): MGT 300 and EC 110 and EC 111.

MGT 320. Leadership. 3 sem. hrs.
This course focuses on the interpersonal dynamics of managers, professionals, and entrepreneurs at work. Case analysis and simulation of problem solving and decision making are used to develop insight into human relations in organizations as well as to develop the personal and interpersonal skills needed in leadership roles.
Prerequisite(s): MGT 300.

MGT 322. Effective Negotiations. 3 sem. hrs.
Negotiations are pervasive in all aspects of life. Having the ability to effectively negotiate can provide you with a competitive advantage in many situations. This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.
Prerequisite(s): Junior class standing and enrollment in College of Commerce and Business Administration, OR by permission of instructor.

MGT 341. Business Ethics. 3 sem. hrs.
Systematic examination of current issues and problems in the organization and management of business enterprises. The course combines readings, cases, and lectures that focus on the roles, activities, and ethical choices of managers as they direct organizations within the context of our contemporary society.
Prerequisite(s): MGT 300 minimum grade of C-.

MGT 386. Foundations of Entrepreneurshi. 3 sem. hrs.
Emphasis is on how to manage a small company and operate it profitably. Special attention is given to the problems of different types of small enterprises, such as those in retail, service, franchise, and manufacturing industries.
Prerequisite(s): MGT 300.

MGT 406. Family Business Management. 3 sem. hrs.
MGT 406 will offer: 1) several perspectives on family business and 2) address the challenges and opportunities unique to the management of family businesses.
Prerequisite(s) with concurrency: MGT 386.

MGT 412. Mgt Presentations. 3 sem. hrs.
Instruction and practice of information presentation in a business environment. Topics include conference room presentations, media briefings, team presentations, television interviews and audiovisual development.
Prerequisite(s): GBA 300 and MGT 300.

MGT 415. Ethics is Leadership Decision-Making: A Descriptive Functional Behavioral Analytic. 3 sem. hrs.
Using applied descriptive functional behavioral analytic techniques, students sequentially analyze, decompose, and develop models to explain unethical leadership decision making in organizations using quasi-naturalistic behavioral observation.
Prerequisite(s): MGT 300 or MGT 320 or MGT 341.

MGT 420. Organizational Change. 3 sem. hrs.
An investigation of structural, technological, humanistic, and task approaches to organizational change; the resistance to change; and the implementation of change in business and in private- and public-sector organizations.
Prerequisite(s): MGT 300 and MGT 301.

MGT 421. Corporate Entp. & Innovation. 3 sem. hrs.
This course uses a case analysis method to examine the development and implementation of managerial actions in modern organizations.
Prerequisite(s): MGT 300.

MGT 422. Leadership Communication. 3 sem. hrs.
Analysis of the role of communication in effective leadership for all management situtations.

MGT 431. Human Resources Selection and Placement. 3 sem. hrs.
The main purpose of this course is to provide students with detailed knowledge of an organization's staffing function. The knowledge includes, but is not limited to, understanding how to conduct a job's analysis, how to write a job description and the specifications of that job, how to choose appropriate recruitment and selection methods, how to structure and execute valid job interviews, how to write job offer letters, and how to evaluate the overall effectiveness of an organization's staffing strategy and policies.
Prerequisite(s): MGT 301.

MGT 432. Employee Relations. 3 sem. hrs.
A critical examination of the factors that condition employee relations in both the private and public sectors.
Prerequisite(s): MGT 300 and MGT 301.

MGT 433. Compensation and Performance Management. 3 sem. hrs.
This course will enable students to identify the components of a total reward system, understand the major compensation system design issues, become familiar with the provisions of the FLSA, and understand the relationship between compensation and performance management.
Prerequisite(s): MGT 301.

MGT 434. Training and Development. 3 sem. hrs.
This course examines both the theory and practice of training and development in organizations. Topics covered will include organizational, task, and individual needs assessment, training design and implementation, and evaluation techniques. This course will draw upon research and theory from management, psychology, and other relevant domains. Application of the text/lecture materials will be reinforced through class exercises, group assignments, guest lectures, and presentations.
Prerequisite(s): MGT 300, MGT 301.

MGT 437. Strategic Human Resource Management. 3 sem. hrs.
This course is designed to provide a broad, strategic overview of human resource management with practical applications. It will define and describe strategic HRM and identify the specific HR issues within organizational strategies, goals, and tasks. This class is designed to prepare students to sit for the SHRM college level certification exam.
Prerequisite(s): MGT 301 and three of the four HR concentration classes (MGT 431, MGT 432, MGT 433, MGT 434).

MGT 452. Management Communication Projects. 3 sem. hrs.
Demonstrate communication effectiveness in a business context by completing team project for a client, using written, oral, visual,and interpersonal skills.
Prerequisite(s): GBA 300 and MGT 300.

MGT 482. New Venture Development. 3 sem. hrs.
This course provides an opportunity to develop a business plan for a new venture or for expansion of an existing company. Students are expected to acquire skills in evaluating business ventures; to learn alternative financing sources; to develop ideas for differentiating products; and to develop an understanding of what is required to harvest the profits of a growing business.
Prerequisite(s): MGT 300.

MGT 483. Technology Commercialization. 3 sem. hrs.
This course focuses on getting ideas, innovations, or discoveries into the marketplace in the form of products or services, or into the value chain at any step, to increase the competitive advantage of the enterprise. The course offers an overview of the technology commercialization process. But more importantly, the course provides opportunities to assess technologies for commercialization. Indeed, the most useful description of the course is as a practicum in technology assessment. Throughout the course, students are engaged in technology assessment projects. This course links the activities of research and development, product and process design, technology transfer and marketing, new venture financing, technology entrepreneurship and intrapreneurship, protection of intellectual property, and management.
Prerequisite(s): MGT 386, or permission of the instructor.

MGT 486. Small Business Consultng. 3 sem. hrs.
This course is designed to offer education and training in the art of management consulting as it applies to smaller firms. The overall purpose of the course is the acquisition of knowledge and skills that will enable students to provide management advice to entrepreneurs and businesspersons to improve the performance of smaller organizations.
Prerequisite(s): MGT 300.

MGT 491. Independent Study. 1-3 sem. hr.
The course offers students interested in management the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with the advice and permission of the appropriate instructor and the approval of the program chairperson.
Prerequisite(s): MGT 300.

MGT 492. Internship In Hrm. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MGT 300.

MGT 497. Special Topics. 3 sem. hrs.

Marketing (MKT) Courses

MKT 300. Marketing. 3 sem. hrs.
A survey course that describes the nature of domestic and global marketing management. Emphasis is placed on market analysis to include consumer, industrial, institutional, and governmental markets for goods and services. Also emphasized are the marketing management functions of planning, pricing, promoting, and distributing goods and services in business and nonprofit contexts.

MKT 310. Principles of Social Media. 3 sem. hrs.
A survey of interactive, electronic media and technology that enable organizations to 1) acquire products, services and materials from suppliers, 2) market goods and services to customers, 3) allow members of the organization to communicate with each other, and 4) monitor the external environment. Students develop e-commerce-related skills to design and execute a firm's marketing efforts, including Web project management, electronic market development and management, Web-enabled selling, and other emerging areas of marketing.
Prerequisite(s): MKT 300.

MKT 313. Consumer Behavior. 3 sem. hrs.
Analysis of the basic processes underlying buyer behavior. Various factors are examined, including external influences (e.g., culture, reference groups, family) and internal influences (e.g., perceptions, attitudes, personality). Primary emphasis is on final consumers with a secondary emphasis on the external and internal influences affecting organizational buyers.
Prerequisite(s): MKT 300.

MKT 321. Retail Management. 3 sem. hrs.
Analysis of existing generalizations and principles related to the economic and social role of retailing; competitive strategies; efficiency in retailing; and essential concepts for retail management.
Prerequisite(s): MKT 300.

MKT 334. Impr. Mgt. Beh. Lab. 1 sem. hr.
The class teaches students how to effectively apply the persuasion and impression management theory so that they can effectively influence individuals and others.
Prerequisite(s) with concurrency: MKT 300.

MKT 337. Personal Selling. 3 sem. hrs.
Introduction to successful selling practices and principles through presentation, discussion, role playing, and workshops. Includes principles of prospecting, establishing rapport, generating curiosity, being persuasive, creating desire, handling objections, and closing.
Prerequisite(s): MKT 300.

MKT 338. Sales Management. 3 sem. hrs.
This course builds on the basic sales process taught in Personal Selling (MKT337) by focusing on Account Management and Team Management. Through class discussion and an Account Plan project, students gain an understanding of customer partnerships, business management, and sales team development. The concept that sales managers must both implement and facilitate corporate marketing plans is pervasive through the course.
Prerequisite(s): MKT 300 and MKT 337.

MKT 371. Site Select Mkt Analysis. 3 sem. hrs.
Prerequisite(s): MKT 300.

MKT 376. Services Marketing. 3 sem. hrs.
To understand the basic concepts and principles surrounding services marketing and management including processes, people, and physical evidence.
Prerequisite(s): MKT 300.

MKT 385. Marketing Information Systems. 3 sem. hrs.
Introduces students to the types of information systems used in marketing as well as develop the basic analytical skills necessary to use the output from such systems. The course has a decision-making focus and will survey the tools available for marketing decision making. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 and MATH 121; or MATH 115 and MATH 125; or MATH 121; or MATH 125; or MATH 126; or MATH 131; and EC 110 and EC 111 and CS 102 and AC 210 and ST 260 or ST 250 and ST 251; and LGS 200.

MKT 410. Managing Innovation. 3 sem. hrs.
Systematic examination of product policy and of the major concepts, methods, and strategies involved in decision making in the course of developing new products. Techniques and criteria used to identify and implement new products and services are examined in depth. Consideration is given to issues and strategies involved in the management of mature products.
Prerequisite(s): MKT 300.

MKT 411. Supply Chain Management. 3 sem. hrs.
Supply chain management encompasses the design and administration of the systems of suppliers and distributors that collectively provide for the exchange of title, physical movement, and storage activities in marketing. The scale and complexity of supply chain relationships are escalating as firms strive to enhance interorganizational effectiveness and efficiency. This course examines the role of manufacturers and intermediaries in channel strategies and the scope, methods, problems, and opportunities of systemic supply chain coordination.
Prerequisite(s): MKT 300.

MKT 422. Supply Chain Strategy. 3 sem. hrs.
Logistics is a system-based concept requiring the effective coordination of the flow of materials and goods from the point of origin to the end user. This course explores the key marketing tasks necessary to achieve an efficient logistics network: transportation, warehousing and materials handling, inventory management, forecasting, information and order processing, and simulation/modeling.
Prerequisite(s): MKT 300 and MKT 411.

MKT 437. Advanced Selling. 3 sem. hrs.
The purpose of the course is to enhance communication and selling skills. Focus will be on the account managment principles and the processes used to develop account and long term relationships with major accounts. Live selling situations will be used to practice skills.
Prerequisite(s): MKT 337.

MKT 439. Key Account Management. 3 sem. hrs.
To understand and practice the science of managing customer lifecycles; including account sourcing, analysis, categorization, strategic planning, tactical development and implementation.
Prerequisite(s): MKT 337 Personal Selling.

MKT 444. Promotional Management. 3 sem. hrs.
Intensive investigation of underlying ideas, principles, and concepts that may be used to inform consumers of the availability and attributes of products and services. The course includes a comprehensive overview of promotional and sales management activities and tactics.
Prerequisite(s): MKT 300.

MKT 460. Export/Import Management. 3 sem. hrs.
Course includes a thorough examination of export-import management processes and highlights the importance of management in international business strategy.
Prerequisite(s): MKT 300.

MKT 473. Marketing Research. 3 sem. hrs.
Designed to prepare the student to be an informed, effective user of marketing research. Provides an overview of research techniques available for collecting information to answer specific research questions. Therefore, the orientation of the course is managerial.
Prerequisite(s): MKT 300.

MKT 476. Services Management. 3 sem. hrs.
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 300
Prerequisite(s) with concurrency: MKT 376.

MKT 477. Advanced Services Marketing. 3 sem. hrs.
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 376, MKT 476.

MKT 487. Strategic Marketing. 3 sem. hrs.
Analysis of marketing problems as they relate to the managerial functions of planning, organizing, and controlling marketing.
Prerequisite(s): MKT 313
Prerequisite(s) with concurrency: MKT 473.

MKT 488. Marketing Field Study. 3 sem. hrs.
Working with a client firm, students apply (in a practical setting) the skills and knowledge they have acquired and build new skills in project management.
Prerequisite(s): MKT 300.

MKT 491. Independent Study. 1-3 sem. hr.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MKT 300.

MKT 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 and LGS 200 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251.

MKT 493. Special Topics Marketing. 3 sem. hrs.
Courses that offer the faculty a chance to present topics of interest to themselves and to marketing students.
Prerequisite(s): MKT 300.

College of Communication and Information Sciences

History and Objectives

The former School of Communication became the College of Communication on September 9, 1988, by action of the Board of Trustees of The University of Alabama in recognition of the school's expanded role and scope. The College is the only communication unit in the state offering the bachelor's, master's and doctoral degrees.

The School of Communication had been created on July 1, 1973, by combining the existing Department of Journalism and Department of Broadcast and Film Communication with University of Alabama Television Services in a single administrative unit. During its first year, the School of Communication created an additional department, the Department of Advertising and Public Relations, from course sequences that had been part of the program in journalism. University Radio Services was established in 1980, as was the Communication Research and Service Center (now the Institute for Communication Research). On May 16, 1981, the Department of Speech Communication (now Communication Studies) moved from the College of Arts and Sciences to the School of Communication. On July 1, 1997, the College of Communication and the School of Library and Information Studies merged to form the College of Communication and Information Sciences. The School of Library and Information Studies began to offer its first undergraduate courses in information sciences in 1999 and a minor in fall 2000.

The purposes of the College of Communication and Information Sciences are as follows:

- To offer courses leading to undergraduate and graduate degrees in those specialized areas necessary to prepare students to pursue careers in communication- and information-related areas.
- To provide students with a broad education that will allow them to become productive and creative citizens in society and leaders in their professions, their communities and the nation.
- To encourage students to pursue further formal study and self-education in communication- and information-related areas.
- To engage actively in research and service.

Since its founding in 1932, the Department of Communication Studies (formerly Speech Communication) at The University of Alabama has offered liberal-arts-oriented courses focused on the most fundamental and pervasive human activities. Whether developing and maintaining interpersonal relationships, providing leadership for groups and organizations, or fulfilling the responsibilities of public citizenship and service, communication competence is central to a rewarding personal, civic and professional life. The mission of the department is to prepare students to be competent communicators in whatever careers they choose by fostering their abilities to think critically, to express and to advocate ideas effectively, and to understand and appreciate the diversity of human communication practices.

The department traces its disciplinary origins to the rhetorical traditions of ancient Greece and Rome. In 20th-century programs in the United States, this academic discipline developed into an interdisciplinary field of study, encompassing both humanistic and social scientific approaches to human communication issues and practices in a broad range of public, interpersonal and cultural contexts. Departmental courses emphasize the connections between thought, action and public participation, studying theory and practice in the areas of rhetoric, persuasion, political communication, relational communication, organizational communication, leadership and culture.

Instruction in journalism at The University of Alabama began in 1925 with one course taught in the Department of English. The Department of Journalism was formed the next year, and 10 courses (taught by two faculty members) were listed in the University catalog. In 1930-31, journalism was first offered as a major, in combination with English or one of the social sciences; 24 hours of journalism were required. Courses in advertising and public relations were added to the curriculum in 1947. Graduate instruction leading to the Master of Arts degree began in 1950.

In September 1940, the University established a Department of Radio Arts in the College of Arts and Sciences and a Division of Radio Services in the Extension Division, appointing a director to supervise both units. In 1946, the two units were separated, and the department became an exclusively academic area, charged with educating students in broadcasting. A graduate program leading to the master of arts degree was established in 1950, at which time the department's name was changed to the Department of Radio and Television Arts.

In 1966, the department's educational role was broadened to include film studies, and its name was changed to the Department of Broadcast and Film Communication. The current name was adopted in 1989, reflecting the advent of satellites, cable systems, fiber optics and other electronic technologies. In addition to its other programs, the department participates in the college's doctoral program in mass communication.

Admission and Retention Requirements

College of Communication and Information Sciences students should meet the general admission requirements of the University. The College has final authority in decisions concerning the possible application of junior college credit and other college credit toward a student's degree requirements.

Essential Communication Functions

College-level grammar, spelling, punctuation, diction and typing skills are requirements for the successful completion of all communication courses at The University of Alabama. Students electing the information sciences minor must have taken either CAT 100 Computer Concepts & Applicatn or CS 102 Microcomputer Applications or demonstrate equivalent competency. CAT 100 Computer Concepts & Applicatn or CS 102 Microcomputer Applications will not earn credit toward the information sciences minor.

Lower Division and Upper Division

The curriculum of the College of Communication and Information Sciences is divided into a lower division and an upper division. The lower division consists of all communication courses at the 100 and 200 levels. The upper division consists of all communication courses at the 300 level or above. The College of Communication and Information Sciences has established both lower-division and upper-division requirements for students. All University of Alabama students who enroll in upper-division communication courses must have met the College's upper-division requirements. Students who enroll in communication courses and do not meet the College's requirements concerning prerequisite courses and grades will be administratively disenrolled on or before the first day of classes. Students who enroll in communication courses and fail to attend class meetings during the first week of classes will be disenrolled.

Lower-division Requirements

A student who has completed the necessary prerequisite courses with the required minimum grade of C- may enroll in lower-division communication courses. Prerequisites are included in the course descriptions in this catalog, but they are subject to change.

Upper-division Requirements

To enroll in upper-division communication courses, a student must have completed the necessary prerequisite courses with grades of C- or higher and must have an overall grade point average of 2.0 or higher.

Declaring a Major and Minor

It is the student's responsibility to declare a major in the College of Communication and Information Sciences. Application is made by filling out a major/minor form in the major department within the college. However, a student transferring from another division on campus must complete a change of division form in 297 Phifer Hall. If the transferring student has more than 45 hours, the student must also have a GPA of 2.0 or higher. The transfer of division form must be completed before an official major/minor form can be obtained from the department of choice.

A candidate for a major in the College of Communication and Information Sciences must choose a minor field of study in any department or area for which he or she is eligible, subject to both the acceptance of registration for a minor by that department or area, and approval of the minor by the student's adviser in the college.

University Honors Program

Qualified students in the College of Communication and Information Sciences are encouraged to participate in the University Honors Program. Complete information is contained in the University Honors Program section of this catalog.

Academic Advising

Each student must contact the appropriate departmental office to be assigned an academic adviser, who assists in planning the course of study and registering for classes. It is the responsibility of each student to consult faculty advisers and to select and register for the courses that are necessary to make reasonable progress, within the time period desired, toward meeting all degree requirements. This responsibility extends to seeing that all prerequisites have been fulfilled before registering for courses that have such requirements.

Any student who needs assistance with selecting courses, determining academic progress, or addressing difficulties with coursework may make an appointment with an academic adviser, another college faculty member or any faculty member of the University.

General Degree Requirements

Students should refer to the Admissions section of this catalog for information about advanced placement, CLEP credit, CLEP subject examinations, junior college credit and transfer credit (the College of Communication and Information Sciences has final authority in decisions concerning the possible application of junior college credit and other college credit toward a student's degree requirements). Information about academic bankruptcy, application for degree, class-hour load restrictions, concurrent enrollment, core curriculum requirements, drop/add, the University forgiveness policy, the pass/fail option and second bachelor's degrees can be found in the Academic Records and General Academic Policies section of this catalog.

In order to earn the bachelor of arts in communication degree, students must satisfy the following requirements.

Hours and Grade Point Average

All majors in the College of Communication and Information Sciences must complete the minimum number of semester hours required by their departments and approved by the College. Of the total number of hours required for each major, up to 16 may be earned in military science. The total hours for graduation must include the coursework specified in this catalog under the heading for the appropriate major department.

To be eligible for graduation, a College of Communication and Information Sciences major must have an overall and on-campus grade point average of 2.0 or higher and a grade point average of 2.0 or higher in the major and in the minor.

Grade Requirements for Courses in the Major

A student must have grades of C- or higher in all required and elective courses counted toward an undergraduate major in the College of Communication and Information Sciences. In addition, grades of C- or higher must be earned in all required external courses, including those established as prerequisites for courses in the major as well as those required directly in the major.

Students majoring in advertising and public relations, journalism, and telecommunication and film must successfully complete at least 80 hours outside the mass communication area plus 65 hours in approved liberal arts and sciences courses taught in the College of Arts and Sciences, in the Department of Economics in the Culverhouse College of Commerce and Business Administration, in the Department of Communication Studies, or in other courses that meet core requirements in humanities, mathematics, social sciences, natural sciences, fine arts and behavioral sciences.

Students should always check with the major department or the College of Communication and Information Sciences records office for specific policies pertaining to a particular department or program.

Residence in the College and in the Major and Minor

While enrolled in the College of Communication and Information Sciences, students must earn a minimum of 30 hours on this campus. A minimum of 12 hours in each major and six hours in each minor must be earned at the 300 or 400 level in residence.

Independent Study by Correspondence

Credit earned for correspondence courses may not exceed 25 percent of the coursework required by the University for graduation.

Absences

Students are expected to attend all classes. Specific course attendance policies are fully explained by the professors in their course outlines.

Policy on Prerequisites and Corequisites

College of Communication and Information Sciences students must satisfy all course and grade prerequisites and all course corequisites. A student who fails to satisfy prerequisites and corequisites before enrolling in a course may be administratively disenrolled from that course on or before the first day of classes. It is, however, the student's responsibility to drop a course when the specified prerequisites or corequisites have not been met.

Policy on Auditing Courses

A student who is registered for 12–18 hours may audit one course, but he or she may not take tests or a final examination in the audited course. No credit is earned by auditing courses.

Policy on Repeating Courses

Courses that satisfy requirements of a communication major may be enrolled in more than once in order to earn a minimum grade of C-. Each enrollment is included in the cumulative hours attempted and in the computation of the grade point average, but only the final enrollment may be counted toward the degree.

Waiver of Courses

An entering student who presents prior study or experience that is apparently equivalent to a required course may petition the major department for a waiver of that required course, subject to the substitution of a higher-numbered course in its place. The student may be required to take an examination to obtain the waiver.

Department and Program Requirements

Hours in the Major

Students majoring in advertising or public relations must complete no fewer than 31 hours in the major. Students majoring in journalism must complete no fewer than 35 hours in the major. Students majoring in telecommunications and film must complete no fewer than 33 hours in the major. Students majoring in communication studies must complete no fewer than 36 hours in the major. The student must satisfy the requirements of one of the departments of the College (advertising or public relations, communication studies, journalism, or telecommunication and film). The maximum number of hours in the College of Communication and Information Sciences that may be counted toward the degree varies from department to department.

Hours in the Minor

No more than 27 hours in the minor may be counted toward the degree. In completing a single minor, the student is required to fulfill the requirements of the department that offers the minor. In the College of Arts and Sciences, for example, students must complete 15–22 hours in the minor subject, as required by that division's departments. Students majoring in advertising or public relations, journalism, and telecommunication and film may minor in communication studies. Students majoring in communication studies may minor in advertising and public relations, journalism, or telecommunication and film.

Students in the College of Communication and Information Sciences may pursue two minors, subject to the following restrictions:

- Communication studies majors may have no more than one minor from the departments of advertising and public relations, journalism, and telecommunication and film.
- At least one minor must be taken in the College of Arts and Sciences.
- Advertising and public relations, journalism, and telecommunication and film majors may not minor in any College of Communication and Information Sciences department except communication studies.
- All students must complete in residence a minimum of six to nine hours of courses numbered 300 or above in their major and minor subjects depending on department.

Double Majors

A mass communication student in the College of Communication and Information Sciences may pursue a second major in communication studies or in the College of Arts and Sciences, subject to the following provisions:

- The second major must be approved by the head of the department in which the student is enrolled.
- The student must meet all of the requirements for the second major that are in effect at the time the second major is declared.
- At the time the second major is declared, a written statement of the courses to be taken in that major must be signed by the appropriate academic advisor in the department administering the second major.

Transfer Students

Transferability refers to the conditions under which The University of Alabama accepts credit from other post-secondary institutions for inclusion in the student's record. The applicability of transferred credit toward a University of Alabama degree refers to the prerogative of an academic division to count specific transferred credit toward the student's degree requirements. Transfer students admitted to The University of Alabama may apply to have their transcripts evaluated by the College of Communication and Information Sciences records office. It is essential to have transcripts evaluated prior to enrolling in any courses in the College of Communication and Information Sciences.

A transfer student must have earned a grade point average of 2.0 or higher (on a 4.0 scale) at the institution(s) previously attended. The student must have earned a grade of C- or higher in all transferred courses that are used to satisfy major requirements in the College of Communication and Information Sciences. No more than 18 hours of eligible 100- and 200-level courses in the major may be transferred. No 300- or 400-level (junior/senior) courses may be transferred unless special

permission is granted by the major department. No more than 21 hours in a single subject may be transferred.

A student may transfer a total of 88 hours from another accredited four-year institution or a total of one-half of the hours needed for a degree from a junior college, provided that these maximum numbers do not conflict with accreditation requirements or other divisional requirements.

Courses Outside the Major and Minor

No more than 21 hours in any single subject other than the major or minor may be applied in fulfilling the minimum-hours graduation requirement (see the Hours and Grade Point Average section under General Degree Requirements for minimums).

Specialized Minor in Other Divisions

A student interested in a specialized minor in any other division (for example, the College of Human Environmental Sciences, College of Engineering, or College of Arts and Sciences) should contact that division.

Faculty

Dean

Singleton, Loy A.

Associate Dean for Graduate Studies

Zhou, Shuhua

Associate Dean for Undergraduate Student Services

Mills, Carol B.

Assistant Dean for Undergraduate Studies

Daniels, George

Director of Development

Portera, Neely J.

Director of Financial Affairs

Danner, Melanie

Placement and Intern Director

Oakley, Jim

Registrar

Bradley, Mary Ann

Alabama Public Radio

Duff, David

Duggins, Patrick

Henslee, Kathy

Public Television

Baughn, David

Cammeron, Dwight D.

Deal, Bruce

Eifler, Amy

Holloway, Tammy

Letcher, John M.

Center for Public Television and Radio

Brock, Elizabeth

Institute for Communication and Information Research

Bissell, Kimberly

Professor Emerita

Atkinson, Joan L.

Elebash, Camille

Professor Emeritus

Barban, Arnold M.

Brown, James A.

Bryant, Jennings

Deaver, Frank

Harris, Tom

Malinconico, S. Michael

Mullins, Edward

Sloan, W. David

Thompson, Frank H.

Zillmann, Dolf

Associate Professor Emerita

Stephens, Annabel K.

Assistant Professor Emeritus

Burton, John H.

Associate Professor Emeritus

Hartsook, Richard M.

Perry, David

Powell, Aryln Sinclair

Roche, Bruce

Advertising and Public Relations (APR) Courses

APR 100. Professional Exploratory. 1 sem. hr.
The Professional Exploratory provides the student an opportunity to shadow advertising and PR professionals in the workplace while being introduced to current practices and trends in the field. Enrollment is by permission of the departmental chairman and the faculty sponsor. In order to qualify for APR 100, the student must have an overall GPA of at least a 2.0 and be a declared advertising or PR major or minor. One hour of credit may be earned for a Pass/Fail grade, determined by the agency supervisor's evaluation report to the faculty sponsor at the end of the term. APR 100 may not be repeated for credit.

APR 221. Intro To Advertising. 3 sem. hrs.
Survey of advertising, including history, social and political perspectives, advertising institutions, and an overview of advertising theory, planning, and practice.
Prerequisite(s): EN 101 or EN 103 or EN 104 or EN 120; and MC 101.

APR 230. Intro to Public Relations for Non Majors. 3 sem. hrs.
Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations. Infrequently offered.

APR 231. Intro Public Relations. 3 sem. hrs.
Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations.
Prerequisite(s): EN 101 or EN 103 or EN 104 or EN 120; and MC 101.

APR 260. Design Applications. 3 sem. hrs.
An introductory skills course to the primary Adobe CS5 Suite items (Photo- shop, Illustrator, and InDesign) used in the advertising and public relations program. Through this distance education class, students will learn the primary skill set used to make professionally designed logos, ads, brochures, newsletters, and other documents prevalent in the industry in addition to a small amount of Web training.
Prerequisite(s): MC 101.

APR 300. Visual Communication. 3 sem. hrs.
Theory, concepts, and aesthetics of visual communication applied to commercial persuasion in advertising and public relations. Particular attention is given to the application of course content in desktop publishing.
Prerequisite(s): APR 221 or APR 231 or JN 311; and APR 260 and JN 150 and MC 101.

APR 307. Creative Imaging. 3 sem. hrs.
Create, manipulate and optimize images for print and Internet use. Students will learn basic and advanced imaging techniques using Adobe Photoshop.
Prerequisite(s): APR 221 or APR 231; and APR 260 and APR 300 and MC 101.

APR 322. Advertising Copywriting. 3 sem. hrs.
Examination of relationships between advertising strategy and the creative process, concentrating on the generation of ideas and the execution of advertising ideas for various media. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and JN 150; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 332. Public Relations Writing. 3 sem. hrs.
Theory and practice involved in creating public relations messages, including planning, writing, editing, production, and evaluation. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 231 and APR 260 and APR 300 and JN 150 and JN 311; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 380. Independent Study. 1-9 sem. hr.
Variable credit (1 to 9 hours). Analysis of advanced theoretical issues in commercial persuasive communication under the supervision of an advertising or public relations faculty member.

APR 381. APR Practicum. 1-3 sem. hr.
Variable credit (1 to 3 hours). Supervised field experiences coupled with investigation of communication problems. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110; and APR 221 or APR 231; and APR 260; and APR 322 or APR 422 or APR 332; and JN 150 and MC 101.

APR 385. Advertising Internship. 3 sem. hrs.
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports submitted by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260; and APR 322 or APR 422; and JN 150 and MC 101.

APR 386. Public Relations Internship. 3 sem. hrs.
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 415. Online Magazine Writing. 3 sem. hrs.
This course further develops writing and editing skills for emerging electronic communications. Students' major project is to write, produce & distribute an issue of Platform, an online magazine for PR students & educators. Writing proficiency is required and must be demonstrated in order to pass the W-designated course.,
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 418. Advertising Development. 3 sem. hrs.
Theory and practice of visual communication in telecommunication and print media, with particular attention to the latest creative approaches being applied in advertising and public relations.
Prerequisite(s): MC 101 and APR 221 and APR 300 and APR 260 and APR 322 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and JN 150.

APR 419. Public Relatns Development. 3 sem. hrs.
Application of graphic design techniques to the creation and production of public-relations#oriented publications.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 420. Political Communication. 3 sem. hrs.
The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.
Prerequisite(s): MC 101.

APR 422. Advertising Media. 3 sem. hrs.
Study of media as vehicles for advertising messages, and preparation of media objectives, strategies, budgets, and buying plans. May be taken for graduate credit.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260 and JN 150 and MC 101.

APR 423. Advertising Management. 3 sem. hrs.
The course concentrates on advertising as a business-building activity and examines the concepts, perspectives, and practices that advertising decision makers can employ to maximize the value of advertising. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and APR 322 and APR 422 and JN 150; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 424. Advertising Campaigns. 3 sem. hrs.
Planning and execution of advertising campaigns for specific organizations. Integration of advertising theory, concepts, and techniques into complete communication programs. Offered in fall and spring semesters.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and APR 322 and APR 422 and JN 150 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

APR 432. Public Relations Management. 3 sem. hrs.
The course concentrates on public relations as an essential element in the effective management of any organization and examines the concepts, perspectives, and practices that apply to the management of communication programs directed to various audiences inside and outside the organization. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 433. Public Relations Campaigns. 3 sem. hrs.
Planning and execution of public relations campaigns for specific organizations. Integration of public relations theory, concepts, and techniques into complete communication programs. Offered in fall and spring semesters.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 443. Political Advertising & Political Public Relations. 3 sem. hrs.
Study of the role of political advertising and political public relations in contemporary American media. A consideration of proactive and reactive political advertising and public relations strategies.
Prerequisite(s): APR 420 and MC 101.

APR 480. Readings In APR. 3 sem. hrs.

Communication Information Sciences (CIS) Courses

CIS 100. Freshman Compass Living/Learng. 1 sem. hr.

Communication Studies (COM) Courses

COM 100. Rhetoric And Society. 3 sem. hrs.
The impact of public discourse on the ideas and issues of culture and history. Offered in the fall semester. HU designation for university core curriculum.

COM 101. Principles Human Communication. 3 sem. hrs.
General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals. The focus is on identifying the foundation of human communication and the functions of communication in everyday situations. Offered in the spring semester. SB designation for university core curriculum.

COM 104. Forensics. 1 sem. hrs.
per semester (may earn up to 6 hours toward COM major). The individual events program focuses on the preparation and presentation of various kinds of speeches and on the oral interpretation of literature. The debate program focuses on the research and practice of oral argument.

COM 121. Crit Decisn Makng Honors. 3 sem. hrs.
Introductory course in thinking critically for the purpose of participating in the process of public decision making and understanding how discussion, argumentation, and persuasion function as communication forms for that process. HU designation for university core curriculum.

COM 122. Critical Decision Making. 3 sem. hrs.
Introductory course in thinking critically and speaking credibly for the purpose of participating in the process of public decision making and for responsible civic engagement. HU designation for university core curriculum.

COM 123. Public Speaking. 3 sem. hrs.
Theory and practice of basic principles of public speaking, with emphasis on the compositional and presentational aspects of communication in formal speaking situations. HU designation for university core curriculum.

COM 155. Freshman Seminar. 3 sem. hrs.

COM 210. Oral Interpretn Literatr. 3 sem. hrs.
Beginning course in the oral interpretation of literature. The course covers principles and techniques of analyzing and presenting poetry, prose, and dramatic literature orally. HU designation for university core curriculum.

COM 220. Interpersonal Communication. 3 sem. hrs.
Study of verbal and nonverbal communication in the evolution of human relationships. SB designation for university core curriculum.

COM 225. Small Group Communicatn. 3 sem. hrs.
Survey and application of basic group communication principles as related to task-oriented interpersonal, small-group, and large-group dynamics, within the context of complex organizations.

COM 250. Nonverbal Communication. 3 sem. hrs.
This course introduces the basic concepts related to the study of nonverbal communication and explores the application of nonverbal code information to specific communication contexts.

COM 295. Special Topics. 3 sem. hrs.
Reading and discussion in areas of significance. Topics vary.

COM 300. Human Communication Research. 3 sem. hrs.
Focus on how communication research can be used to answer practical questions related to human communication and the media. Emphasis is given to critical analysis and empirical research.
Prerequisite(s): COM 101.

COM 301. Intro Rhetorical Theory. 3 sem. hrs.
Survey of the historical development of rhetorical theory from the classical period to the present.
Prerequisite(s): COM 100 or COM 123.

COM 310. Rhetorical Criticism. 3 sem. hrs.
Survey of critical approaches to rhetorical analysis of discourse. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100.

COM 323. Advanced Public Speaking. 3 sem. hrs.
Prerequisite: COM 104, COM121, COM 122, or 123. Advanced exploration of principles and models of contemporary public address.
Prerequisite(s): COM 104 or COM 121 or COM 122 or COM 123.

COM 340. Rhetoric & Popular Culture. 3 sem. hrs.
An investigation of rhetorical constructions of social identities through cases of popular culture. Emphasis is on how mediated constructions come to reflect and reify dimensions of race/ethnicity, gender, class, sexualities, education, religion, abilities, and other subject positions.

COM 341. Rhetoric & Amer Politics. 3 sem. hrs.
Introduction to the structures and functions of written, spoken, and electronically mass-mediated political discourse in contemporary society. Writing proficiency within this discipline is required for a passing grade in this course.

COM 342. Rhetoric Social Protest. 3 sem. hrs.
Study of social protest discourse and how it functions rhetorically. Writing proficiency within this discipline is required for a passing grade in this course.

COM 348. Argumentation. 3 sem. hrs.
Theory and practice of argumentation, applying basic principles to both oral and written discourse.

COM 349. Practicum In Forensics. 3 sem. hrs.
Practical experience in establishing and administering forensic programs, preparing students for competitive forensics events, rendering critical judgments, and conducting forensics tournaments.

COM 350. Organizatnl Communicatn. 3 sem. hrs.
Theoretical approach to the study of human communication in the organization context. Emphasis is on predominant organizational communication theories and communication networks, as well as dyadic, small group, and public communication processes.

COM 352. Business Prof Communication. 3 sem. hrs.
Junior or Senior Standing. Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including resume preparation and presentation, interviewing, and interaction management in business and professional settings.

COM 366. Visual Culture & Communication. 3 sem. hrs.
Provides an introduction to the critical understanding of visual images and their uses in a variety of rhetorical actions that humans perform in persuasion, informing, governing, remembering and authorizing public life and culture.

COM 395. Special Topics. 3 sem. hrs.
Reading, research, and discussion in areas of significance. Topics vary.

COM 413. Communication & Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.
Prerequisite(s): COM 100 or COM 101.

COM 415. African American Rhetoric. 3 sem. hrs.
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100.

COM 425. Gender & Political Communctn. 3 sem. hrs.
Study of the impact of gender on political communication activities. Topics include gender differences in political messages and voter orientation, masculine ideals of leadership, women's roles and advancement in the political sphere, and media representations.
Prerequisite(s): COM 100 or COM 101.

COM 436. Independent Study. 1-3 sem. hr.
Those permitted to do independent study will be required to participate in an undergraduate research colloquium as necessary to completing the work for academic credit.

COM 450. Adv Organization Communication. 3 sem. hrs.
Advanced course focusing on current trends and issues in organizational communication. Course content will center on a variety of topics designated important to the conceptualization and successful operation of organizations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 350COM 350.

COM 451. Instructional Communication. 3 sem. hrs.
Principles and strategies for teaching communication studies at the high-school and community-college level.
Prerequisite(s): COM 100 or COM 101.

COM 460. Group Leadership. 3 sem. hrs.

COM 462. Theories Of Persuasion. 3 sem. hrs.
Critical review of social influence theories and practice in the area of persuasion and human action. Special emphasis is given to the application of the theories in interpersonal and organizational communication contexts.

COM 463. Relational Communication. 3 sem. hrs.
Focused investigation of communication in close personal relationships, with primary emphasis on contemporary concepts and theories of romantic relationships and friendships. Writing proficiency is a requirement for passing the course. W designation for university core curriculum.
Prerequisite(s): COM 220.

COM 465. Intercultural Communication. 3 sem. hrs.
Survey and analysis of major concepts, theories, and research dealing with communication between people of different cultural backgrounds in multicultural and international settings.
Prerequisite(s): COM 100 or COM 101.

COM 467. Seminar Public Address. 3 sem. hrs.
A topical consideration of individual case studies from public discourse, designed to probe problems of the nature of the audience, the ethics of persuasion, and the power of public advocacy in mass society.

COM 469. Communication & Gender. 3 sem. hrs.
Explores the role of communication in the construction of gender. Covers theories of gender construction, as well as the roles of gender and communication in various relational contexts. (This is an approved course for the minor in women's studies.).

COM 490. Field Experience in Communication Studies. 3 sem. hrs.
Supervised field experience in communication studies. Must meet departmental requirements for eligibility to be approved for this course.
Prerequisite(s): COM 100 or COM 101.

COM 495. Special Topics. 3,6 sem. hrs.
Reading, research, and discussion in areas of significance. Topics vary.
Prerequisite(s): COM 100 or COM 101.

COM 499. Capstone Seminar. 3 sem. hrs.
Gives advanced students an opportunity to integrate and synthesize what they have learned in the communication studies major. Topics will vary.
Prerequisite(s): COM 100 or COM 101; and COM 300 or COM 310.

Information Sciences (IS) Courses

IS 100. Info I: Info Access & Evaluati. 3 sem. hrs.
How to find and use information in systems designed and managed by others: asking questions; access; selection; evaluation; synthesis; and design of research projects.

IS 202. Soc I Hy & Effects Info Stud. 3 sem. hrs.
Ways in which the new information technologies are transforming society and issues raised by the information environment's rapid changes.

IS 402. Society Ii: Info In 21st Cent. 3 sem. hrs.
The most successful economic, political, social and cultural experiments in today's electronic environment, found in communities, businesses and governance of all kinds, suggest what will become the trends of the global information economy of the 21st century.

Journalism (JN) Courses

JN 101. Journalistic Principles and Practices. 1 sem. hr.
The role of journalism in a democratic society, emphasizing history, law and ethics. Students are introduced to career options and opportunities for journalism majors and minors. Students start a professional blog, which will be used as their work portfolio as they progress in the department. Required of all majors and minors in the department.

JN 150. Mechanics of Media Writing. 1 sem. hr.
The logic of sentence and paragraph structure in the context of media writing and accuracy with emphasis on grammar, punctuation and word choice. This online course is required for journalism, advertising and public relations majors and minors.

JN 200. Foundations of Journalism. 3 sem. hrs.
Introduction to the concepts, processes and practices of journalism, including news values, writing, design, history, law and ethics. Not required of JN majors and minors but can be an elective. This is a Core Humanities designated course.

JN 261. Visual Journalism. 3 sem. hrs.
This course introduces students to visual concepts used in journalism. Emphasis on using digital still photography and digital videos to communicate information to audiences across media platforms.
Prerequisite(s): JN 101 or JN 200 or APR 221 or APR 231; and JN 150 and MC 101.

JN 311. News Writing and Reporting. 3 sem. hrs.
Fundamentals of newsgathering and newswriting for news and public relations organizations. This course is a prerequisite for all succeeding journalism and PR courses. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): MC 101 and JN 150 one of the following: (JN 101 or JN 200 or APR 231).

JN 312. Editing. 3 sem. hrs.
Preparing copy for publication across media platforms with an emphasis on careful writing, accuracy and presentation. Writing proficiency is required for a passing grade in this W designed course.
Prerequisite(s): JN 261 and JN 311.

JN 315. Advanced News Writing & Reporting. 3 sem. hrs.
Advanced practice of newsgathering and newswriting for specialized topic areas, ranging from hard news stories on topics such as government, education, and the environment to soft news, human interest, and feature stories. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 311.

JN 318. Sports Writing & Reporting. 3 sem. hrs.
Newsgathering and newswriting for sports journalism. Students cover a beat and write both hard news stories (game stories, breaking news) and soft news (human interest and features) about their areas.
Prerequisite(s): JN 311.

JN 320. Intermediate Journalism Design. 3 sem. hrs.
Survey and application of techniques and practices in presenting information visually, including infographics, photojournalism, and design and layout of publications and Web sites.
Prerequisite(s): JN 261 and JN 311.

JN 325. Reporting Writing Across Media. 3 sem. hrs.
Emphasizes process of conceptualizing and executing news and feature content in text, audio and video for multiple media platforms, including print, online, broadcast, mobile and social media.
Prerequisite(s): JN 261 and JN 311.

JN 361. Intermediate Photo Journalism. 3 sem. hrs.
Further instruction in the tools, concepts and practice of using digital still photography and video to communicate information to audiences. Emphasis on storytelling, technical proficiency and specialized techniques.
Prerequisite(s): JN 261 and JN 311.

JN 380. Independent Study. 1-3 sem. hr.
Analysis of current issues and practices in journalism under the supervision of a faculty member. May be repeated for credit provided the topics are different.
Prerequisite(s): JN 311.

JN 382. Internship. 1-3 sem. hr.
Variable credit (1 to 3 hours). Students may take up to 3 hours of internship credit toward their degree. For each credit, students must work 60 hours at a professional media organization under the supervision of a media professional.
Prerequisite(s): JN 311.

JN 411. Depth Reporting & Writing. 3 sem. hrs.
Reporting and writing longer news and feature stories for publication in print and online. Students learn advanced techniques in information gathering, story organization, non-fiction writing and multimedia elements. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 412. Opinion Writing. 3 sem. hrs.
The art and practice of writing editorials, columns and other persuasive forms for print and online. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 415. Advanced Magazine Writing. 3 sem. hrs.
Writing and editing of long-form articles for publication in print and online depth magazines. Students learn advanced narrative non-fiction writing techniques and how to gather information for longer feature stories. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 417. Digital Community Journalism. 3 sem. hrs.
Students produce and publish original articles, photography and multimedia stories for Dateline Alabama, the department's student-run news site covering the campus and Tuscaloosa comunities. Students hone professional journalism skills as editors and producers and work to build professional portfolios.
Prerequisite(s): JN 315 or JN 320 or JN 325 or JN 361.

JN 418. Advanced Sports Writing & Reporting. 3 sem. hrs.
Advanced techniques in reporting and writing for sports media. Students analyze published work, begin their own sports blog and write several articles, including two in-depth pieces.
Prerequisite(s): JN 315 or JN 318.

JN 419. Food Writing & Reporting. 3 sem. hrs.
Conceptualizing, pitching, reporting and writing food journalism. Students read and analyze examples of food news and feature articles. Students produce several short articles and one in-depth piece of food journalism.
Prerequisite(s): JN 315 and JN 318.

JN 426. Advanced Journalism Design. 3 sem. hrs.
Application of graphic design techniques to both print and Web-based publications. Theory and practice of creating and executing layouts and design.
Prerequisite(s): JN 312 and JN 320.

JN 430. Digital Media Workshop. 3 sem. hrs.
Explores and applies media convergence principles and techniques in producing online content. Course emphasizes writing, editing, shooting photos and video and designing for the web and other digital delivery forms. Students produce special digital projects on themed topics.
Prerequisite(s): JN 315 or JN 318 or JN 320 or JN 325 or JN 361.

JN 436. Teaching Of Journalism. 3 sem. hrs.
Introduction to the techniques and practices of teaching scholastic journalism and management of school print, online and broadcast media. Designed for students who wish to teach and advise K-12 newspapers, yearbooks, literary magazines, web sites or radio and television programs.

JN 461. Advanced Photojournalism. 3 sem. hrs.
This capstone photo class is for students interested in a career in photojournalism. Advanced techniques, deadline pressure and problem solving are addressed, with emphasis on producing a professional portfolio of digital still photograhy and video.
Prerequisite(s): JN 361.

JN 491. Special Topics in Journalism. 3 sem. hrs.
Course content varies to explore current topics in journalism. Repeatable for up to 6 credits if the topics are different.
Prerequisite(s): JN 261 and JN 311.

JN 492. International Media Production. 3 sem. hrs.
Capstone course in print and online magazine reporting, writing, photographing and designing in an international setting. Students take on leadership roles associated with producing a magazine and its accompanying Web site. Departmental approval required.
Prerequisite(s): JN 312 and one of the following: JN 315 or JN 318 or JN 320 or JN 361.

JN 499. Journ Issues and Ethics. 3 sem. hrs.
Examination of current issues and ethical practices in the field of journalism. Students complete a major research project on issues and ethics.
Prerequisite(s): Senior Standing
Prerequisite(s) with concurrency: MC 401.

Mass Communication (MC) Courses

MC 101. Intro To Mass Communic. 3 sem. hrs.
Introduction to the fields of communication, including theory, law and regulation, history, social implications, and mass media operations.

MC 103. Fundamentl Informatn Literacy. 3 sem. hrs.
Information literacy is crucial to being successful in the Information Age. Individuals need to be able to locate, evaluate, and use information effectively and efficiently. Information ethical issues are also important.

MC 401. Mass Comm Law & Regultn. 3 sem. hrs.
Study of laws and regulations affecting the mass media and the fields of mass communication. May be taken for graduate credit.
Prerequisite(s): MC 101.

MC 405. Mass Communctn Ethics. 3 sem. hrs.
Freedoms and responsibilities of mass media practitioners and institutions, explored within the framework of ethical theory. Consideration of values, codes of ethics, moral development, professionalism, institutional constraints, etc., as applied to media of information, persuasion, and entertainment. May be taken for graduate credit.
Prerequisite(s): MC 101.

MC 407. Mass Communic Research. 3 sem. hrs.
Overview and application of the methods used in quantitative and qualitative mass communication research.
Prerequisite(s): MC 101.

MC 409. History Mass Communctn. 3 sem. hrs.
Study of the historical development of mass communication. May be taken for graduate credit. Writing proficiency in this discipline is required for passing this W-designated course.
Prerequisite(s): MC 101.

MC 413. Communication & Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in mass communication fields. Emphasis is on the mass media's treatment of various groups in society. Writing proficiency in this discipline is required for passing this W-designated course. May be taken for graduate credit.
Prerequisite(s): MC 101.

MC 421. Political Communication. 3 sem. hrs.
The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communications. Writing proficiency in this discipline is a requirement for passing this W-designated course.
Prerequisite(s): MC 101.

MC 425. Media Management. 3 sem. hrs.
The structure and function of media organizations. The decision-making processes inherent in running complex media businesses. Effective leadership styles. Traditional marketing perspectives applied to media. Laws and regulations that affect media management. Writing proficiency in this discipline is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101.

MC 444. Lobbying. 3 sem. hrs.
A survey of legislative/political techniques and communication strategies and tactics used by corporations, trade associations, and other interest groups to successfully impact federal policymaking.
Prerequisite(s): MC 101.

MC 495. Special Topics. 3 sem. hrs.
Special topics in mass communication theory and research. May be taken for graduate credit.
Prerequisite(s): MC 101.

Telecommunication and Film (TCF) Courses

TCF 100. Intro To Telecommunication. 3 sem. hrs.
Explores film, television, news, and new media with a focus on story, and examines how each of these mediums function at both the level of individual and the level of global society.

TCF 112. Motion Pict Hy Criticism. 3 sem. hrs.
Development of the cinema, with emphasis on relation of technical advances to film content and style.

TCF 145. Media Production. 3 sem. hrs.
Through lectures and hands-on projects, students will learn the equipment and techniques used in media production and editing. Open to non-majors, TCF Management majors, and TCF Critical Studies majors. NOT open to TCF Media Production or TCF Documentary majors.

TCF 155. Freshman Seminar. 3 sem. hrs.
Freshman Seminars fulfill a core curriculum requirement while enhancing students academic development using critical skills, writing and field experience.

TCF 201. Intro to Video Production. 3 sem. hrs.
Introduces students to theories and techniques of video production and post-production. Topics include script formatting, camera technique, lighting, sound, and editing. In this hands-on course, students will produce short video projects that emphasize technical proficiency and visual storytelling.
Prerequisite(s): TCF 100 Sophomore standing or higher.

TCF 215. Writing Presentn Telecom. 3 sem. hrs.
Study of and practice in techniques and skills used in writing and presenting scripts, copy, and professional reports as required by telecommunication media.
Prerequisite(s): TCF 100.

TCF 241. The Documentary Form. 3 sem. hrs.
The documentary as an informative and persuasive means of communication. Analysis and discussion of selected documentaries.
Prerequisite(s): TCF 100.

TCF 286. Intro to Reporting. 3 sem. hrs.
Students will learn the terminology of the electronic reporting industry and will begin writing for broadcast. This course also covers basic equipment used in the newsroom and in the field, and serves as the foundation class for the TCF Reporting sequence.
Prerequisite(s): TCF 100.

TCF 287. Symposium. 1 sem. hr.
Visiting professionals series on various topics.

TCF 288. News Shadowing Intern. 1 sem. hr.
Provides students with an opportunity to follow media professionals on the job and discover career requirements before beginning the news sequence.
Prerequisite(s): TCF 100.

TCF 301. Intro to Audio Production. 3 sem. hrs.
Students will learn the basics of microphone properties, microphone placement, recording techniques, editing, and sound design.
Prerequisite(s): TCF 201.

TCF 305. Telecom Audience Analys. 3 sem. hrs.
Study of methods used in gathering information about telecommunication audiences. Analysis, interpretation, and application of information to decision making in electronic media.
Prerequisite(s): TCF 100.

TCF 310. Telecommunication Programming. 3 sem. hrs.
Program planning, development, and strategies for radio and television stations, networks, cable systems, and syndication. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): TCF 100.

TCF 311. Critical Stdy Television. 3 sem. hrs.
Critical analysis of television programs and commercials. Examples are presented for study and evaluation.
Prerequisite(s): TCF 100.

TCF 312. Advanced Videography. 3 sem. hrs.
In this hands-on intensive production workshop, students will develop their creative vision, aesthetic eye, and technical skill to help materialize their ideas on screen. Topics include digital video cameras, framing, composition, camera movement, and lighting techniques.
Prerequisite(s): TCF 201.

TCF 315. Scriptwriting. 3 sem. hrs.
Introduction to writing scripts for television and film. Emphasis includes both the creative and technical aspects.
Prerequisite(s): TCF 100.

TCF 321. Announc Perform For Rtv. 3 sem. hrs.
Performance for Radio and Television. Practical approach to techniques and practices necessary for effective appearances on electronic media. Emphasizes copy interpretation, interview skills, and studio performance for microphone and camera.
Prerequisite(s): TCF 100.

TCF 331. Intro to Reporting. 3 sem. hrs.
Prerequisite(s): TCF 100.

TCF 332. Intermediate Electronic Reporting. 3 sem. hrs.
Elements of news reporting for the electronic media, with focus on radio writing, reporting, and performance. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): TCF 100 and TCF 288.

TCF 333. Advanced Electronic Reporting. 3 sem. hrs.
Advanced examination, preparation, and presentation of news for the electronic media. Activities include writing, electronic news gathering, reporting, and anchoring.
Prerequisite(s): TCF 100 and TCF 332.

TCF 334. Electronic News Capstone/Portfolio. 3 sem. hrs.
Practical application of electronic news reporting and anchoring with an emphasis on preparing a career portfolio.
Prerequisite(s): TCF 100 and TCF 332 and TCF 333.

TCF 335. New Media. 3 sem. hrs.
Preparation and presentation of news and sports for new media outlets, including internet formats.
Prerequisite(s): TCF 145 or TCF 333.

TCF 340. International Cinema. 3 sem. hrs.
Study of motion pictures produced throughout the world. Subjects may change each time course is offered. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): TCF 112.

TCF 351. Commercial Production. 3 sem. hrs.
This course offers students the opportunity to combine their knowledge and skills in creating and producing broadcast commercials. Students will be involved in all stages of the process from research and development of scripts to production and postproduction of finished commercials and final presentation of the finished product.
Prerequisite(s): TCF 201.

TCF 357. Production Management. 3 sem. hrs.
Study of and practice in techniques and skills used in organizing location shoots for television, film, documentaries, and commercials.

TCF 361. Intro to Post Production. 3 sem. hrs.
In this project-driven course, students will learn and practice non-linear video editing principles and techniques, media management, sound design, and digital theory.
Prerequisite(s): TCF 100.

TCF 367. Advanced Prod. Management. 3 sem. hrs.
Advanced study and practice in the skills needed for successful production management, including professional software. Emphasis placed on critical thinking, problem solving and team building.
Prerequisite(s): TCF 100 and TCF 357.

TCF 380. Independent Study. 1-3 sem. hr.
Investigative studies in telecommunication and film. May be repeated.

TCF 381. Tcf Practicum. 1-3 sem. hr.

TCF 387. Tcf Internship. 1-3 sem. hr.
Supervised field experience in approved operations in the telecommunication and film industries. No more than 3 hours credit for TCF 387 may be applied toward a degree.

TCF 389. Telecom Applied Topics. 3 sem. hrs.
This is a special topics class which has different topics for each class.
Prerequisite(s): TCF 100.

TCF 390. Electronic Media Sales. 3 sem. hrs.
Understanding prospective clients' businesses; knowledge and application of audience research; application of the marketing model; understanding of effective media mix and advertiser buying influences; assessment of competitive advantages; and written presentations.
Prerequisite(s): TCF 100.

TCF 398. Production Crew. 1-3 sem. hr.
Prerequisite(s): TCF 201.

TCF 401. Corporate & Inst. Media. 3 sem. hrs.
Study of non-broadcast media systems used within corporations and organizations for training, communications, sales, public relations, and instruction. Topics include production techniques; instructional design for video/multimedia; distribution methods; budgeting and management; and careers in corporate media.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 411. Seminar in Critical Studies. 3 sem. hrs.
Advanced study of selected topics in television or film criticism.
Prerequisite(s): MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR PLMA 190 OR ACT 28 OR SAT 690.

TCF 412. Screen Directing. 3 sem. hrs.
Advanced instruction in directing for television and film with an emphasis on directing actors, blocking for the camera, and narrative production techniques. Course includes the production of short fiction projects on digital video.
Prerequisite(s): TCF 201 and TCF 361 and TCF 312.

TCF 420. Telecommuncatn Effects. 3 sem. hrs.
Study of individual and social effects of electronic mass media, with emphasis on research results.

TCF 433. Broadcast News Analysis. 3 sem. hrs.
Historical and critical study of electronic-media news in the United States. Writing proficiency is required for a passing grade in this W-designated course.

TCF 434. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

TCF 435. Documenting Justice II. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Second semester of course.
Prerequisite(s): TCF 434.

TCF 437. Specializations in Prod. Mgt. 3 sem. hrs.
Examines the special requirements needed for production managers in areas outside of the standard television or film production. Topics include animation, gaming and documentaries.
Prerequisite(s): TCF 100.

TCF 438. Producing. 3 sem. hrs.
Examines the economic structures and business practices used by the entertainment industry. This includes development contract law, financing, distribution, pitching and negotiating with Guilds & Unions.
Prerequisite(s): TCF 100.

TCF 440. Sem In American Cinema. 3 sem. hrs.
Study of selected topics in United States film. Writing proficiency is required for a passing grade in this W-designated course.

TCF 441. Documentary Production. 3 sem. hrs.
This course guides students through the design, pre-production planning, production, postproduction and subsequent evaluation of individual and group documentary project(s). Instruction topics include contemporary visual storytelling, cinematic philosophies, ethical issues, research, funding, and distribution.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 442. Advanced Video Projects. 3 sem. hrs.
The application of advanced production skills, including directing, videography, editing, and production management, in the production of a polished, short-subject film on digital video. Students work in groups over the course of the semester, shepherding film project from preproduction to exhibition.

TCF 444. Sem Telecomm/Film Topics. 3 sem. hrs.
Analysis of contemporary issues in the broadcasting, cable, and/or motion picture industries, including social aspects. Topics vary with instructor. May be repeated 3 times (9 hours credit) with different topics.

TCF 445. Telecommuncatn Media Mgt. 3 sem. hrs.
Study of broadcast station and network organization, cable systems, decision-making processes, and research techniques.

TCF 448. Telecommun Policy & Law. 3 sem. hrs.
Organizational structures and processes that formulate and apply laws and regulations shaping broadcast, cable, satellite, and new electronic media operations. Analysis of national policies and standards and their relationship to regional and international controls and practices.

TCF 451. Advanced Television Production. 3 sem. hrs.
Students will receive instruction and practical experience in the development of programming for television, including research, planning and budgeting for series productions. Students will produce small and large group projects for broadcast and follow the projects from concept through the completion.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 461. Advanced Post Production. 3 sem. hrs.
Further instruction in nonlinear editing with emphasis on special effects, motion graphics, and advanced editing techniques.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301; or TCF 150.

TCF 490. Capstone Prod. Projects I. 3 sem. hrs.
Students will begin development on a production project from first draft to a shooting ready production binder.

TCF 491. Capstone Prod. Projects II. 3 sem. hrs.
Students produce and edit short senior projects developed in TCF 490. Project will include a fine cut and a press kit.
Prerequisite(s): TCF 490.

Department of Advertising and Public Relations

Advertising and public relations are the disciplines that organizations use to communicate with their constituencies: customers, employees, suppliers, shareholders, public-interest groups, voters and the general public. The mission of the Department of Advertising and Public Relations is to prepare highly competent, socially conscious and engaged leaders to shape the future of global advertising and public relations.

The curriculum provides an analytical and conceptual approach to understanding and practicing advertising and public relations. Students also gain an appreciation of the role of these disciplines in society. This is not a narrow tool or method orientation. Rather, courses blend theoretical and conceptual thinking with instruction in the latest business practices. The faculty seeks to educate highly competent, focused students who will be recognized for their leadership qualities — their abilities to discern issues relating to both the practice of their profession and its role in society, to develop and execute successful communication programs, and to lead others effectively.

A total of 120 hours is required for graduation with at least 72 of those hours in courses outside of APR, JN, MC and TCF, per national accreditation guidelines. See the Advertising and Public Relations Major (p. 291) section for major and other degree requirements. See the Curriculum (p.) section for four-year sample programs of study. For more specific information about the advertising or public relations major, advising, internships, etc., visit apr.ua.edu.

Advertising and Public Relations Major

Advertising and public relations majors must have at least 31 hours, with no more than 39 hours, in advertising (APR), public relations (APR), journalism (JN), mass communication (MC), and telecommunication and film (TCF) courses. Specific course requirements for the major in advertising or public relations include the following:

		Hours
MC 101	Intro To Mass Communic	3
MC 401 or	Mass Comm Law & Regultn †	3
MC 407	Mass Communic Research	
Select one of the following:		3
MC 401	Mass Comm Law & Regultn †	
MC 405	Mass Communctn Ethics †	
MC 407	Mass Communic Research †	
MC 409	History Mass Communctn †	
MC 425	Media Management †	
MC 413	Communication & Diversity †	
MC 421	Political Communication †	
MC 425	Media Management	
MC 444	Lobbying †	
MC 495	Special Topics	
Total Hours		9

† Not offered every semester

Select one of the following major sequences:

Advertising Major*

		Hours
JN 150	Mechanics of Media Writing	1
APR 260	Design Applications [2]	3
APR 221	Intro To Advertising	3
APR 300	Visual Communication	3
APR 322	Advertising Copywriting	3
APR 422	Advertising Media	3
APR 418 or	Advertising Development	3
APR 423	Advertising Management	
APR 424	Advertising Campaigns [1]	3
Total Hours		22

* Due to the prerequisite-based curriculum in the advertising major, it takes at least five semesters to complete the major courses. Go to 412 Phifer or click here for the advertising major handout, which includes the required major course sequence.

1 Not offered in the summer.

2 Students must declare the advertising major before enrolling in APR 260.

Public Relations Major*

		Hours
JN 150	Mechanics of Media Writing	1
APR 260	Design Applications [2]	3
APR 231	Intro Public Relations	3
JN 311	News Writing and Reporting	3
APR 300	Visual Communication	3
APR 332	Public Relations Writing	3
Select one of the following:		3
APR 415	Online Magazine Writing ‡	
APR 419	Public Relatns Development	
APR 432	Public Relations Management	
APR 433	Public Relations Campaigns [1]	3
Total Hours		22

* Due to the prerequisite-based curriculum in the PR major, it takes at least five semesters to complete the major courses. Go to 412 Phifer or click here for the PR major handout, which includes the required major course sequence.

1 Not offered in the summer.

2 Students must declare the PR major before enrolling in APR 260.

Core Curriculum and General Education Requirements

		Hours
Freshman Composition (FC)		6
EN 101	English Composition	
EN 102 or	English Composition	
EN 103	Advanced English Composition	
Foreign Language (FL) sequence or Computer Science (C)		6-8
Humanities (HU) and Fine Arts (FA)		12
COM 123	Public Speaking	
3 hours in Fine Arts		
6 hours in Literature		
Natural Science (N) and Mathematics (MA)		11
8 hours in Natural Science		
MATH 110	Finite Mathematics (or higher or equivalent)	
History (HI) and Social/Behavioral Sciences (SB)		12
EC 110	Principles of Microeconomics	
3 hours in History		
3 hours in Social/Behavioral Science		
3 hours in History or Social/Behavioral Science		
Additional Core Requirements		6
Writing (W-designated courses) §		
Total Hours		53-55

§ APR 322, APR 332, APR 415, APR 423, APR 432, JN 311 and MC 400-level courses with the "W" designation may be used to satisfy the writing core.

Minors for Students Majoring in Advertising and Public Relations

The department requires each of its students to complete a minor, which may not comprise any advertising and public relations, journalism, mass communication, or telecommunication and film courses. Advertising and public relations students minor in such diverse areas as communication studies, general business, political science, art, psychology, history, mathematics, cultural studies, and languages such as Chinese, Japanese, Russian and Spanish. No more than 27 hours in the minor may be counted toward fulfillment of graduation requirements. At least six hours in

the minor must be at or above the 300 level. Two minors or a second major may be pursued.

Residence in the College and in the Major and Minor

While enrolled in the College of Communication and Information Sciences, students must earn a minimum of 30 hours on this campus. A minimum of 12 hours in each major and six hours in each minor must be earned at the 300- or 400-level *in residence*.

Special Department Requirements

Students are asked to make special note of the following Department of Advertising and Public Relations requirements.

Student Responsibility

As an A&PR student, you are here to become a leader — to shape the future of global advertising and public relations in a socially conscious manner. You are here to do the extraordinary, not just what is expected. The faculty expects you to be passionate about your work, fluent in your discipline and engaged as a learner. We are your partners in these endeavors.

It is the student's responsibility to understand the requirements for the advertising or public relations major or minor and to seek the advice of their assigned faculty adviser when choosing coursework. Students receive adviser assignments when they declare the advertising or public relations major or minor via mybama.ua.edu, or they may go to 412 Phifer to request one.

Prerequisites

A number of courses within and outside the department require other courses as prerequisites. A student who registers for any course without satisfying the proper prerequisites will be required to drop the course. Before registering, students are advised to review course descriptions for prerequisites and other requirements. Due to the APR prerequisite-based curriculum, it takes at least five semesters to complete the hours in the advertising or public relations major or minor. Go to 412 Phifer for a major handout, which includes the required major course sequence. Or you may click here for the advertising major handout or here for PR major handout.

Minimum Grade Requirement

A grade of C- or higher is required in all courses counted in the advertising or public relations major or minor. In addition, grades of C- or higher must be earned in all required external courses, including those established as prerequisites for courses in the advertising or public relations major or minor and those required directly in the major or minor. In keeping with University policy, when a course is taken more than one time, each enrollment will be counted in the cumulative hours attempted and used in computation of the grade point average, but only the final enrollment may count as credit toward the degree.

Minimum Grade Point Average

A 2.0 or higher overall grade point average is required of all students who have earned 45 hours or more of college credit and wish to transfer into the College. A student must have an overall grade point average of 2.0 or higher in order to register for any 300-level or higher-numbered course in the Department of Advertising and Public Relations.

Special Requirement

In addition to fulfilling the University Core Curriculum requirements and the requirements for the major and minor, a student majoring in advertising or public relations must complete at least 12 additional hours of 300- and/or 400-level courses in any areas of study outside of APR, JN, MC, TCF and the student's minor. A student having a second major or second minor may reuse 300- and/or 400-level courses from that second major or second minor to satisfy the special requirement.

Advertising or Public Relations Minor

Only students outside the College of Communication and Information Sciences (with the exception of communication studies majors) may select the minor consisting of 22 credit hours in either advertising or public relations. A grade of C- or higher is required in all courses for the advertising minor or public relations minor. Due to the APR prerequisite-based curriculum, it takes at least five semesters to complete the hours in the advertising or public relations minor. The following courses are required for an advertising or public relations minor:

Advertising Minor Courses

		Hours
MC 101	Intro To Mass Communic	3
JN 150	Mechanics of Media Writing	1
APR 260	Design Applications	3
APR 221	Intro To Advertising	3
APR 300	Visual Communication	3
APR 322	Advertising Copywriting *	3
APR 422	Advertising Media *	3
APR 418 or APR 423	Advertising Development * Advertising Management	3
Total Hours		22

* MATH 110 Finite Mathematics or higher (or equivalent) and EC 110 Principles of Microeconomics with grades of C- or higher are prerequisites to all upper-level APR courses (except APR 300). Students pursuing an advertising minor will need to go to 412 Phifer for a prerequisite override for EC 110 Principles of Microeconomics before enrolling in one of these courses.

Public Relations Minor Courses

		Hours
MC 101	Intro To Mass Communic	3
JN 150	Mechanics of Media Writing	1
APR 260	Design Applications	3
APR 231	Intro Public Relations	3
JN 311	News Writing and Reporting	3
APR 300	Visual Communication	3
APR 332	Public Relations Writing *	3
Select one of the following:		3
APR 415	Online Magazine Writing *†	
APR 419	Public Relatns Development *	
APR 432	Public Relations Management *	
Total Hours		22

* MATH 110 Finite Mathematics or higher (or equivalent) and EC 110 Principles of Microeconomics with grades of C- or higher are prerequisites to all upper-level APR courses (except APR 300). Students pursuing a PR minor will need to go to 412 Phifer for a prerequisite override for EC 110 Principles of Microeconomics before enrolling in one of these courses. APR 415 Online Magazine Writing requires permission of the instructor.

† Requires permission of the instructor.

Admission into the Minor

Students must declare the minor before enrolling in APR 260.

Grade Point Average

A grade point average of at least a 2.0 in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. Each student must meet with an adviser in the major department for academic planning each semester. Students are encouraged to get their advertising or PR minor advising from the Department of Advertising and Public Relations (412 Phifer).

Sample Curriculum for the Major in Advertising

Freshman

Fall	Hours	Spring	Hours
EN 101	3	APR 221	3
MC 101	3	EN 102	3
Fine arts	3	MATH 110 (or higher or equivalent)	3
Science with lab (N)	4	History	3

JN 150	1	Science with lab (N)	4
	14		**16**

Sophomore

Fall	Hours	Spring	Hours
APR 260	3	APR 300	3
EC 110	3	(HI) or (SB) course	3
Foreign language or computer science (FL or C)	3-4	Foreign language or computer science (FL or C)	3-4
Literature (first course)	3	Literature (second course)	3
Social/behavioral science (SB)	3	Minor	3
	15-16		**15-16**

Junior

Fall	Hours	Spring	Hours
APR 322 (W)	3	APR 422	3
COM 123	3	Minor	3
Minor	3	Minor	3
Special requirement	3	Special requirement	3
Special requirement	3	Special requirement	3
	15		**15**

Senior

Fall	Hours	Spring	Hours
APR 423 or 418 (W for APR 423)	3	APR 424	3
MC 401 or 407	3	MC 400-level course	3
Elective	3	Minor	3
Minor	3	Minor or elective	3
Minor	3	Elective or (W) course	3
	15		**15**

Total Hours: 120-122

Sample Curriculum for the Major in Public Relations

Freshman

Fall	Hours	Spring	Hours
EN 101	3	APR 231	3
MC 101	3	EN 102	3
Fine arts	3	MATH 110 (or higher or equivalent)	3
Science with lab (N)	4	History	3
JN 150	1	Science with lab (N)	4
	14		**16**

Sophomore

Fall	Hours	Spring	Hours
APR 260	3	APR 300	3
EC 110	3	(HI) or (SB) course	3
Foreign language or computer science (FL or C)	3-4	Foreign language or computer science (FL or C)	3-4
Literature (first course)	3	Literature (second course)	3
Social/behavioral science (SB)	3	Minor	3
	15-16		**15-16**

Junior

Fall	Hours	Spring	Hours
JN 311 (W)	3	APR 332 (W)	3
COM 123	3	Minor	3
Minor	3	Minor	3
Special requirement	3	Special requirement	3
Special requirement	3	Special requirement	3
	15		**15**

Senior

Fall	Hours	Spring	Hours
APR 432, 419, or 415 (W for APR 432 and 415)	3	APR 433	3
MC 401 or 407	3	Elective	3
Elective	3	MC 400-level course	3
Minor	3	Minor	3
Minor	3	Minor or elective	3
	15		**15**

Total Hours: 120-122

Faculty

Professors

Berger, Bruce K.

Gonzenbach, William J.

Gower, Karla K.

Pasadeos, Yorgo

Phelps, Joseph E.

Associate Professors

Cooper, Caryl A.

Griffin Jr., W. Glenn

Ki, Eyun-Jung

Kinney, T. Lance

Lamme, Margot O.

Lewis, Regina L.

Assistant Professors

Brown, Kenon A.

Horsley, J. Suzanne

Khang, Kyoungkoo

Instructors

Daria, Susan E.

Henley, Teresa K.

Huffaker, Randall

Little, Michael T.

Sims, Tracy R.

Professors emeriti

Barban, Arnold M.

Cartee, Karen Johnson

Dennis, Alan

Elebash, Camille

Mancini, Marilyn

Melson, William H.

Roche, Bruce

Courses

APR 100. Professional Exploratory. 1 sem. hr.
The Professional Exploratory provides the student an opportunity to shadow advertising and PR professionals in the workplace while being introduced to current practices and trends in the field. Enrollment is by permission of the departmental chairman and the faculty sponsor. In order to qualify for APR 100, the student must have an overall GPA of at least a 2.0 and be a declared advertising or PR major or minor. One hour of credit may be earned for a Pass/Fail grade, determined by the agency supervisor's evaluation report to the faculty sponsor at the end of the term. APR 100 may not be repeated for credit.

APR 221. Intro To Advertising. 3 sem. hrs.
Survey of advertising, including history, social and political perspectives, advertising institutions, and an overview of advertising theory, planning, and practice. Prerequisite(s): EN 101 or EN 103 or EN 104 or EN 120; and MC 101.

APR 230. Intro to Public Relations for Non Majors. 3 sem. hrs.
Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations. Infrequently offered.

APR 231. Intro Public Relations. 3 sem. hrs.
Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations.
Prerequisite(s): EN 101 or EN 103 or EN 104 or EN 120; and MC 101.

APR 260. Design Applications. 3 sem. hrs.
An introductory skills course to the primary Adobe CS5 Suite items (Photo- shop, Illustrator, and InDesign) used in the advertising and public relations program. Through this distance education class, students will learn the primary skill set used to make professionally designed logos, ads, brochures, newsletters, and other documents prevalent in the industry in addition to a small amount of Web training.
Prerequisite(s): MC 101.

APR 300. Visual Communication. 3 sem. hrs.
Theory, concepts, and aesthetics of visual communication applied to commercial persuasion in advertising and public relations. Particular attention is given to the application of course content in desktop publishing.
Prerequisite(s): APR 221 or APR 231 or JN 311; and APR 260 and JN 150 and MC 101.

APR 307. Creative Imaging. 3 sem. hrs.
Create, manipulate and optimize images for print and Internet use. Students will learn basic and advanced imaging techniques using Adobe Photoshop.
Prerequisite(s): APR 221 or APR 231; and APR 260 and APR 300 and MC 101.

APR 322. Advertising Copywriting. 3 sem. hrs.
Examination of relationships between advertising strategy and the creative process, concentrating on the generation of ideas and the execution of advertising ideas for various media. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and JN 150; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 332. Public Relations Writing. 3 sem. hrs.
Theory and practice involved in creating public relations messages, including planning, writing, editing, production, and evaluation. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 231 and APR 260 and APR 300 and JN 150 and JN 311; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 380. Independent Study. 1-9 sem. hr.
Variable credit (1 to 9 hours). Analysis of advanced theoretical issues in commercial persuasive communication under the supervision of an advertising or public relations faculty member.

APR 381. APR Practicum. 1-3 sem. hr.
Variable credit (1 to 3 hours). Supervised field experiences coupled with investigation of communication problems. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110; and APR 221 or APR 231; and APR 260; and APR 322 or APR 422 or APR 332; and JN 150 and MC 101.

APR 385. Advertising Internship. 3 sem. hrs.
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports submitted by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260; and APR 322 or APR 422; and JN 150 and MC 101.

APR 386. Public Relations Internship. 3 sem. hrs.
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 415. Online Magazine Writing. 3 sem. hrs.
This course further develops writing and editing skills for emerging electronic communications. Students' major project is to write, produce & distribute an issue of Platform, an online magazine for PR students & educators. Writing proficiency is required and must be demonstrated in order to pass the W-designated course.,
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 418. Advertising Development. 3 sem. hrs.
Theory and practice of visual communication in telecommunication and print media, with particular attention to the latest creative approaches being applied in advertising and public relations.
Prerequisite(s): MC 101 and APR 221 and APR 300 and APR 260 and APR 322 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and JN 150.

APR 419. Public Relatns Development. 3 sem. hrs.
Application of graphic design techniques to the creation and production of public-relations#oriented publications.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 420. Political Communication. 3 sem. hrs.
The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.
Prerequisite(s): MC 101.

APR 422. Advertising Media. 3 sem. hrs.
Study of media as vehicles for advertising messages, and preparation of media objectives, strategies, budgets, and buying plans. May be taken for graduate credit.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260 and JN 150 and MC 101.

APR 423. Advertising Management. 3 sem. hrs.
The course concentrates on advertising as a business-building activity and examines the concepts, perspectives, and practices that advertising decision makers can employ to maximize the value of advertising. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and APR 322 and APR 422 and JN 150; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 424. Advertising Campaigns. 3 sem. hrs.
Planning and execution of advertising campaigns for specific organizations. Integration of advertising theory, concepts, and techniques into complete communication programs. Offered in fall and spring semesters.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and APR 322 and APR 422 and JN 150 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

APR 432. Public Relations Management. 3 sem. hrs.
The course concentrates on public relations as an essential element in the effective management of any organization and examines the concepts, perspectives, and practices that apply to the management of communication programs directed to various audiences inside and outside the organization. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 433. Public Relations Campaigns. 3 sem. hrs.
Planning and execution of public relations campaigns for specific organizations. Integration of public relations theory, concepts, and techniques into complete communication programs. Offered in fall and spring semesters.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 443. Political Advertising & Political Public Relations. 3 sem. hrs.
Study of the role of political advertising and political public relations in contemporary American media. A consideration of proactive and reactive political advertising and public relations strategies.
Prerequisite(s): APR 420 and MC 101.

APR 480. Readings In APR. 3 sem. hrs.

Department of Communication Studies

Communication studies majors may choose to focus in one of the following areas of study (though no tracking system exists): rhetoric and public discourse (pre-law emphasis), communication and culture, or organizational and interpersonal communication. With a degree in communication studies, graduates pursue an array of professions, such as the ministry, teaching, lobbying, human resources, sales, social work, special events planning or speech writing, or advance to graduate study in such fields as communication, education, management or law.

Sample Curriculum for the Communication Studies Major

Freshman

Fall	Hours	Spring	Hours
COM 100 (or elective)	3	COM 101 (or elective)	3
EN 101	3	EN 102	3
Fine Arts (FA)	3	Mathematics (MA)	3
Social/Behavioral Science (SB)	3	Natural Science (N)	4
Natural Science (N)	4	Social/Behavioral Science (SB)	3
	16		**16**

Sophomore

Fall	Hours	Spring	Hours
COM Oral Performance Course	3	COM electives	6
Literature Course (L)	3	Foreign Language or Computer Science (FL or C)	4-3
Foreign Language or Computer Science (FL or C)	4-3	History sequence II (HI)	3
History sequence I (HI)	3	Humanities (HU)	3
Social/Behavioral Sciences (SB)	3		
	16-15		**16-15**

Junior

Fall	Hours	Spring	Hours
COM 300 or 310	3	COM elective, 300–400 level	3
COM elective (W), 300–400 level	6	COM elective (W), 300–400 level	6
Minor	6	Minor	6
	15		**15**

Senior

Fall	Hours	Spring	Hours
COM elective, 300–400 level	6	COM or general elective	6
Minor	3	COM 499	3
Minor, 300–400 level	3	Minor, 300–400 level	3
Special requirement	3	Special requirement	3
	15		**15**

Total Hours: 124-122

Core Curriculum and General Education Requirements

A total of 120 hours is required for graduation, 33 of which must be in courses at the 300- or 400-level.

Freshman Composition (FC)

		Hours
EN 101	English Composition	3
EN 102	English Composition	3
Or by exam or equivalent		
Total Hours		6

Humanities (HU) and Fine Arts (FA)

		Hours
Fine Arts (FA)		3
Literature (L)		3
Humanities (HU)		6
May include:		
COM 100	Rhetoric And Society *	
COM 121	Crit Decisn Makng Honors *	
COM 122	Critical Decision Making *	
COM 123	Public Speaking *	
COM 210	Oral Interpretn Literatr *	
Total Hours		12

Natural Science (N) and Mathematics (MA)

	Hours
Natural Science (N)	8
Mathematics (MA)	3
Total Hours	11

History (HI) and Social/Behavioral Sciences (SB)

		Hours
History Sequence (HI)		6
Social/Behavioral Sciences (SB)		6
May include:		
COM 101	Principles Human Communication *	
COM 220	Interpersonal Communication *	
Total Hours		12

Pre-major Requirements

		Hours
COM 100 or	Rhetoric And Society	3
COM 101	Principles Human Communication	
Foreign Language (FL) or Computer Science (CS)		6-8
Total Hours		9-11

* These courses are cross-listed as meeting core requirements as well as the major.

Additional Core Requirements

A minimum of six hours of Writing courses (W), at least three hours of which are in courses in the major (COM) from the list below:

		Hours
COM 310	Rhetorical Criticism	3
COM 341	Rhetoric & Amer Politics	3
COM 342	Rhetoric Social Protest	3
COM 413	Communication & Diversity	3
COM 415	African American Rhetoric	3
COM 450	Adv Organization Communication	3
COM 463	Relational Communication	3
COM 465	Intercultural Communication	3

College Requirement

An additional 12 hours at the 300- or 400-level outside the major (COM), which may be fulfilled with courses in the minor.

Communication Studies Major

A minimum of 36 hours of courses in Communication Studies is required for the major, with a minimum of 21 hours in the major at the 300–400 level and a minimum of 33 total hours at the 300–400 level. No more than 45 hours in Communication Studies (COM) may be counted toward the total number of hours required for graduation (120).

The program of instruction, to be planned in consultation with a faculty adviser, includes at least one course from each of the five required areas below, as well as a minimum of 24 hours of elective courses in the major:

Theoretical Foundations

		Hours
Select at least one of the following:		
COM 100	Rhetoric And Society	3
COM 101	Principles Human Communication	3

NOTE: Although not required, the department strongly recommends that Communication Studies majors take both COM 100 Rhetoric And Society and COM 101 Principles Human Communication.

Oral Performance Skills

		Hours
Select one of the following:		
COM 104	Forensics	1
COM 121 or	Crit Decisn Makng Honors	3
COM 122	Critical Decision Making	
COM 123	Public Speaking	3
COM 210	Oral Interpretn Literatr	3
COM 348	Argumentation	3

Introduction to Methods of Inquiry

		Hours
Select one of the following:		
COM 300	Human Communication Research	3
COM 310	Rhetorical Criticism	3

Writing Skills

		Hours
Select at least one W-designated course:		
COM 310	Rhetorical Criticism	3
COM 341	Rhetoric & Amer Politics	3
COM 342	Rhetoric Social Protest	3
COM 413	Communication & Diversity	3
COM 415	African American Rhetoric	3
COM 450	Adv Organization Communication	3
COM 463	Relational Communication	3
COM 465	Intercultural Communication	3

Capstone Experience

COM 499	Capstone Seminar	3

Elective Courses (minimum of 24 hours)

Through the selection of elective courses, Communication Studies majors may emphasize one of the following areas of study: rhetoric and public discourse, communication and culture, or organizational and interpersonal communication. The courses listed below for each of these areas are recommendations, not requirements. Communication Studies majors do not have to select an area of emphasis for their elective coursework; however, they are encouraged to plan their individual programs of study with the guidance of their departmental academic adviser.

Rhetoric and Public Discourse

This emphasis area focuses on argumentation, the effective construction and critical analysis of persuasive public messages, and the role of rhetoric in constructing, sustaining or changing the political, social, cultural or legal order. This area also attends to communication theories and practices evident in public (political, social, cultural, legal) discourse, artifacts, and campaigns. Attention is given to such areas of analysis and practice as public speaking, argumentation and debate, and the role of media in various public contexts. The area is an ideal pre-professional emphasis for students interested in careers in the legal profession; this emphasis area is one means of helping pre-law students prepare broadly for that career. Recommended minors for students who choose this emphasis area include American Studies, Gender and Race Studies, Criminal Justice, English, History, Philosophy, Journalism, Political Science, or Telecommunication and Film.

Recommended Electives

		Hours
COM 301	Intro Rhetorical Theory	3
COM 323	Advanced Public Speaking	3
COM 341	Rhetoric & Amer Politics	3
COM 342	Rhetoric Social Protest	3
COM 348	Argumentation	3
COM 366	Visual Culture & Communication	3
COM 413	Communication & Diversity	3
COM 415	African American Rhetoric	3
COM 425	Gender & Political Communctn	3
COM 460	Group Leadership	3
COM 467	Seminar Public Address	3
COM 469	Communication & Gender	3

Communication and Culture

This emphasis area explores public communication in a wide variety of contexts and settings. The focus is on the influence of rhetoric and visual communication on individuals, communities, and the larger social world. Students interested in careers involving community or social change or human services (e.g., the ministry), or in postgraduate study in communication studies or media studies should consider this emphasis. Recommended minors for students who choose this emphasis area include Anthropology, Advertising and Public Relations, American Studies, Gender and Race Studies, Apparel and Textiles, Art History, English/Creative Writing, International Studies, Journalism, Modern Languages, Religious Studies, Telecommunication and Film, or Theatre.

Recommended Electives

		Hours
COM 340	Rhetoric & Popular Culture	3
COM 342	Rhetoric Social Protest	3
COM 366	Visual Culture & Communication	3
COM 413	Communication & Diversity	3
COM 415	African American Rhetoric	3
COM 425	Gender & Political Communctn	3
COM 463	Relational Communication	3
COM 465	Intercultural Communication	3
COM 467	Seminar Public Address	3
COM 469	Communication & Gender	3

Organizational and Interpersonal Communication

The focus of this area is on knowledge and skills vital to successful communication in organizational, group, family, and other interpersonal settings. Emphases include cultural, social, and cognitive influences on personal and professional interaction and such skills as conflict resolution, small group problem solving, interviewing, and intercultural communication. It is appropriate for students interested in professional and administrative careers in business, educational, human services, or media organizations. Recommended minors for students who choose this emphasis area include Advertising and Public Relations, General Business, Consumer Sciences, Economics, Human Development and Family Studies, International Studies, Journalism, Management, Psychology, Real Estate, Sociology, Social Welfare, World Business, and Telecommunication and Film.

Recommended Electives

		Hours
COM 220	Interpersonal Communication	3
COM 350	Organizatnl Communicatn	3
COM 352	Business Prof Communication	3
COM 413	Communication & Diversity	3
COM 450	Adv Organization Communication	3
COM 460	Group Leadership	3
COM 463	Relational Communication	3
COM 465	Intercultural Communication	3
COM 469	Communication & Gender	3

Leadership Communication Program (LCP) Certificate

Offered by the Department of Communication Studies, the Leadership Communication Program (LCP) is a certificate program designed to give students from around the University the opportunity to focus on the development of their communication skills in organizations with diverse groups of people, as well as the development of their leadership skills in action, through service learning and supervised study. The program consists of 15 hours of the following:

Core Competencies

		Hours
COM 220 or	Interpersonal Communication	3
COM 225	Small Group Communicatn	
COM 350	Organizatnl Communicatn	3
COM 460	Group Leadership	3
Capstone Course: Communication Training and Development *		3
Select one of the following:		3
COM 413	Communication & Diversity	
COM 469	Communication & Gender	
Total Hours		15

*The capstone course has a service-learning component in a not-for profit environment and provides certificate students with hands-on experience with organizational audits and communication training. Candidates for the certificate must complete an application form before the certificate can be awarded. Application forms must be completed and submitted no later than the semester prior to the semester of graduation.

University Scholars Program in Communication Studies

Communication Studies majors admitted into this program will be able to earn both the BA and MA in Communication Studies at The University of Alabama in five years. For the highly motivated and academically gifted student, this program offers several distinct advantages:

- Faster, more economical plan of study than earning the two degrees separately.
- Richer undergraduate degree experience, fewer unrelated core courses and more courses in the major.
- Stronger mentoring relationship with the faculty.

- Greater opportunity to develop understanding of the field in preparation for doctoral work.

Admission into the University Scholars Program occurs in two phases. Phase I begins at the beginning of the third year, after the successful completion of 61 semester hours of study with a 3.3 GPA or better. Phase II begins after the completion of 91 semester hours, with a 3.3 GPA or better, when the student applies for admission to the Graduate School. Upon admission to the Graduate School, the student will be allowed to take graduate-level courses and begin a program of study leading to the Master of Arts in Communication Studies.

Communication Studies Minor

The minor in Communication Studies requires 21 hours of coursework in the department, including COM 100 Rhetoric And Society or COM 101 Principles Human Communication and at least six hours at the 300 or 400 level. A grade of C- or higher is required in all Communication Studies courses (COM) counted toward the minor.

Admission into the Minor

Students are expected to declare a minor formally. With the assistance of the departmental Undergraduate Program Director or a faculty adviser in Communication Studies, students should declare the minor before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in Communication Studies requires the successful completion of the following 21 semester hours:

		Hours
COM 100 or	Rhetoric And Society	3
COM 101	Principles Human Communication	
COM electives at the 300- or 400-level		6
COM electives		12
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

A grade of C- or higher is required in all Communication Studies courses counted toward the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Faculty

Chair

Bennett, Beth S.

Instructors

Billings, Angela

Hodges, Treva

Imbody, Robert

Parsons, Caroline

Womelsdorf, Charles

Assistant professors

Bagley, Meredith

Baker, Jane Stuart

Boylorn, Robin

Chilcutt, Alexa S.

Tang, Lu

Associate professors

Black, Jason Edward

Edwards, Janis L.

Meares, Mary M.

Mills, Carol Bishop

Professors

Bennett, Beth S.

Nelson, Mark D.

Professor emeritus

Harris, Thomas

Associate professor emeritus

Thompson, Frank M., Jr.

Courses

COM 100. Rhetoric And Society. 3 sem. hrs.
The impact of public discourse on the ideas and issues of culture and history. Offered in the fall semester. HU designation for university core curriculum.

COM 101. Principles Human Communication. 3 sem. hrs.
General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals. The focus is on identifying the foundation of human communication and the functions of communication in everyday situations. Offered in the spring semester. SB designation for university core curriculum.

COM 104. Forensics. 1 sem. hrs.
per semester (may earn up to 6 hours toward COM major). The individual events program focuses on the preparation and presentation of various kinds of speeches and on the oral interpretation of literature. The debate program focuses on the research and practice of oral argument.

COM 121. Crit Decisn Makng Honors. 3 sem. hrs.
Introductory course in thinking critically for the purpose of participating in the process of public decision making and understanding how discussion, argumentation, and persuasion function as communication forms for that process. HU designation for university core curriculum.

COM 122. Critical Decision Making. 3 sem. hrs.
Introductory course in thinking critically and speaking credibly for the purpose of participating in the process of public decision making and for responsible civic engagement. HU designation for university core curriculum.

COM 123. Public Speaking. 3 sem. hrs.
Theory and practice of basic principles of public speaking, with emphasis on the compositional and presentational aspects of communication in formal speaking situations. HU designation for university core curriculum.

COM 155. Freshman Seminar. 3 sem. hrs.

COM 210. Oral Interpretn Literatr. 3 sem. hrs.
Beginning course in the oral interpretation of literature. The course covers principles and techniques of analyzing and presenting poetry, prose, and dramatic literature orally. HU designation for university core curriculum.

COM 220. Interpersonal Communication. 3 sem. hrs.
Study of verbal and nonverbal communication in the evolution of human relationships. SB designation for university core curriculum.

COM 225. Small Group Communicatn. 3 sem. hrs.
Survey and application of basic group communication principles as related to task-oriented interpersonal, small-group, and large-group dynamics, within the context of complex organizations.

COM 250. Nonverbal Communication. 3 sem. hrs.
This course introduces the basic concepts related to the study of nonverbal communication and explores the application of nonverbal code information to specific communication contexts.

COM 295. Special Topics. 3 sem. hrs.
Reading and discussion in areas of significance. Topics vary.

COM 300. Human Communication Research. 3 sem. hrs.
Focus on how communication research can be used to answer practical questions related to human communication and the media. Emphasis is given to critical analysis and empirical research.
Prerequisite(s): COM 101.

COM 301. Intro Rhetorical Theory. 3 sem. hrs.
Survey of the historical development of rhetorical theory from the classical period to the present.
Prerequisite(s): COM 100 or COM 123.

COM 310. Rhetorical Criticism. 3 sem. hrs.
Survey of critical approaches to rhetorical analysis of discourse. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100.

COM 323. Advanced Public Speaking. 3 sem. hrs.
Prerequisite: COM 104, COM121, COM 122, or 123. Advanced exploration of principles and models of contemporary public address.
Prerequisite(s): COM 104 or COM 121 or COM 122 or COM 123.

COM 340. Rhetoric & Popular Culture. 3 sem. hrs.
An investigation of rhetorical constructions of social identities through cases of popular culture. Emphasis is on how mediated constructions come to reflect and reify dimensions of race/ethnicity, gender, class, sexualities, education, religion, abilities, and other subject positions.

COM 341. Rhetoric & Amer Politics. 3 sem. hrs.
Introduction to the structures and functions of written, spoken, and electronically mass-mediated political discourse in contemporary society. Writing proficiency within this discipline is required for a passing grade in this course.

COM 342. Rhetoric Social Protest. 3 sem. hrs.
Study of social protest discourse and how it functions rhetorically. Writing proficiency within this discipline is required for a passing grade in this course.

COM 348. Argumentation. 3 sem. hrs.
Theory and practice of argumentation, applying basic principles to both oral and written discourse.

COM 349. Practicum In Forensics. 3 sem. hrs.
Practical experience in establishing and administering forensic programs, preparing students for competitive forensics events, rendering critical judgments, and conducting forensics tournaments.

COM 350. Organizatnl Communicatn. 3 sem. hrs.
Theoretical approach to the study of human communication in the organization context. Emphasis is on predominant organizational communication theories and communication networks, as well as dyadic, small group, and public communication processes.

COM 352. Business Prof Communication. 3 sem. hrs.
Junior or Senior Standing. Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including resume preparation and presentation, interviewing, and interaction management in business and professional settings.

COM 366. Visual Culture & Communication. 3 sem. hrs.
Provides an introduction to the critical understanding of visual images and their uses in a variety of rhetorical actions that humans perform in persuasion, informing, governing, remembering and authorizing public life and culture.

COM 395. Special Topics. 3 sem. hrs.
Reading, research, and discussion in areas of significance. Topics vary.

COM 413. Communication & Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.
Prerequisite(s): COM 100 or COM 101.

COM 415. African American Rhetoric. 3 sem. hrs.
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100.

COM 425. Gender & Political Communctn. 3 sem. hrs.
Study of the impact of gender on political communication activities. Topics include gender differences in political messages and voter orientation, masculine ideals of leadership, women's roles and advancement in the political sphere, and media representations.
Prerequisite(s): COM 100 or COM 101.

COM 436. Independent Study. 1-3 sem. hr.
Those permitted to do independent study will be required to participate in an undergraduate research colloquium as necessary to completing the work for academic credit.

COM 450. Adv Organization Communication. 3 sem. hrs.
Advanced course focusing on current trends and issues in organizational communication. Course content will center on a variety of topics designated important to the conceptualization and successful operation of organizations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 350COM 350.

COM 451. Instructional Communication. 3 sem. hrs.
Principles and strategies for teaching communication studies at the high-school and community-college level.
Prerequisite(s): COM 100 or COM 101.

COM 460. Group Leadership. 3 sem. hrs.

COM 462. Theories Of Persuasion. 3 sem. hrs.
Critical review of social influence theories and practice in the area of persuasion and human action. Special emphasis is given to the application of the theories in interpersonal and organizational communication contexts.

COM 463. Relational Communication. 3 sem. hrs.
Focused investigation of communication in close personal relationships, with primary emphasis on contemporary concepts and theories of romantic relationships and friendships. Writing proficiency is a requirement for passing the course. W designation for university core curriculum.
Prerequisite(s): COM 220.

COM 465. Intercultural Communication. 3 sem. hrs.
Survey and analysis of major concepts, theories, and research dealing with communication between people of different cultural backgrounds in multicultural and international settings.
Prerequisite(s): COM 100 or COM 101.

COM 467. Seminar Public Address. 3 sem. hrs.
A topical consideration of individual case studies from public discourse, designed to probe problems of the nature of the audience, the ethics of persuasion, and the power of public advocacy in mass society.

COM 469. Communication & Gender. 3 sem. hrs.
Explores the role of communication in the construction of gender. Covers theories of gender construction, as well as the roles of gender and communication in various relational contexts. (This is an approved course for the minor in women's studies.).

COM 490. Field Experience in Communication Studies. 3 sem. hrs.
Supervised field experience in communication studies. Must meet departmental requirements for eligibility to be approved for this course.
Prerequisite(s): COM 100 or COM 101.

COM 495. Special Topics. 3,6 sem. hrs.
Reading, research, and discussion in areas of significance. Topics vary.
Prerequisite(s): COM 100 or COM 101.

COM 499. Capstone Seminar. 3 sem. hrs.
Gives advanced students an opportunity to integrate and synthesize what they have learned in the communication studies major. Topics will vary.
Prerequisite(s): COM 100 or COM 101; and COM 300 or COM 310.

Department of Journalism

In a digital age, information is increasingly important to all professions, but it is truly at the heart of journalism. As a field of study, journalism stresses the gathering, analysis and communication of information for all kinds of audiences. The student of journalism learns the varied ways news and information are produced, from traditional practices of news professionals to emerging practices of media entrepreneurs.

Journalism students gain expertise in writing, editing, design, photojournalism, multimedia production, history, law, ethics and media management. They learn to produce journalism for a variety of topics, from politics, government and social issues, to sports, food, fashion and travel. The program's graduates are prepared for jobs in the journalism industry, as well as for jobs in many other professions. Employers of all sorts, from business to law to education, are desperate for employees who can write well, find and organize information, and present information in engaging and clear ways. A journalism degree gives graduates these skills.

The volume of information in our highly mediated society can be overwhelming, and it is increasingly difficult to sort the good information from the bad. Yet a democratic society simply doesn't work if people are not well-informed. It is the journalist who ensures that society has credible, comprehensible information. And so while the mix of communication skills and liberal arts knowledge gained by journalism majors is valuable career preparation, it is also indispensable to good citizenship. As our majors learn to produce the news, they also learn to think critically and ethically about journalism and about the role that news plays in society.

Some of the career options for journalism majors include:

Newspaper Reporting and Editing

Print and online newspapers aggressively seek our graduates. Newspapers offer some of the best opportunities for journalism majors who are in school and want internships, or who have graduated and are pursuing their first jobs. Newspapers seek our journalism majors for jobs in reporting, copy editing, photography, online production and design positions. Newspapers also seek staff for specialty products, including lifestyle magazines and specialized websites.

Magazine Writing and Editing
Our majors go on to write, design and edit for general circulation print and online magazines, as well as for magazines that cover almost any specialized subject, including sports, travel, cooking, and hunting and fishing, to name only a handful. Magazines employ managing editors, manuscript editors, department editors, production managers, art designers, photographers, designers, copy editors, writers and other staff members for both their print and online editions.

Digital Journalism
Most graduates who work in the news industry also produce for online media, as it is the traditional mass media – newspaper, magazine, radio and television – that have taken the lead in Internet publishing. However, graduates also work for commercial and non-profit online organizations, and increasingly, graduates are starting their own online media ventures. Good writers, editors, designers, photographers and multimedia producers with a commitment to accuracy and fairness are in demand by any organization with an online presence.

Graphics and Design
The visual presentation of news and information is critical to good journalism. This is especially true in a digital information age in which data are wildly abundant, and there is a strong need to make sense of it. News outlets need people who understand the rules and conventions of graphics and design, and who can use these in a journalistic context. Graphic artists and designers gather and synthesize information concisely and present it in ways that enhance audience understanding.

Photojournalism
Photojournalism is a fast-paced, on-the-spot approach to gathering news through still and moving images. News organizations, magazines, sports organizations, corporations, non-profit outlets and other entities hire photojournalists, whose primary assignments are gathering news and information by capturing digital photos and video.

Newsletter Editing or Publishing
A fast-growing area of journalism is the specialty newsletter, in print or digital form. These publications exist in business, government, politics, sports, leisure, recreation and hobbies — in other words, they cover almost every area of interest. Producing a newsletter takes a combination of reporting, editing, design, photography and marketing skills, making a journalism degree highly valued in this field.

Corporate Communications
Many journalism majors find jobs in corporate communications as writers, editors, photographers, designers, online producers and advisers on message strategy and communication techniques. Corporate communication offices seek majors skilled in writing, photography and design to produce newsletters, magazines, websites, press releases, letters, brochures, graphics, annual reports and other materials.

Non-Profit Organizations: An increasing number of non-profit organizations are hiring journalists. Funded by private donations or foundation grants, these organizations offer a myriad of opportunities for reporters, editors, photographers, videographers and multimedia producers who want to make a real difference through journalism without having to work for profit-driven organizations.

Graduate Studies, Law School and Business: Journalism majors are well-prepared for professional careers outside of journalism. Specialized training in writing, gathering information, organizing information, critical thinking and public affairs, coupled with a solid grounding in the social sciences and humanities, opens many doors. The curriculum provides solid groundwork for graduate studies in a number of fields, including law. Students who do well in the journalism curriculum typically perform very well on graduate school and law school examinations because of the emphasis on writing and critical thinking in our courses.

Sample Curriculum for the Major in Journalism (General Track)

Freshman

Fall	Hours	Spring	Hours
JN 101	1	JN 311	3
JN 150	1	COM 123 (or Fine Arts course)	3
MC 101	3	EN 102	3
EN 101	3	Social and Behavioral Sciences (SB)	3
Natural Science (NS)	4	History (HI)	3
Math (M)	3		
	15		**15**

Sophomore

Fall	Hours	Spring	Hours
JN 261	3	JN 315	3
COM 123 (or Fine Arts course)	3	Literature (L) or (FA) or (HU)	3
History (HI) or Social Behavioral (SB)	3	Social and Behavioral (SB)	3
Foreign Language (FL) or Computer Science (CS)	3-4	Foreign Language (FL) or Computer Science (CS)	3-4
Literature (L)	3	Minor course	3
	15-16		**15-16**

Junior

Fall	Hours	Spring	Hours
JN 312	3	JN 382 (or other upper division JN elective)	3
Literature (L) or (FA) or (HU)	3	JN/MC/APR/TCF elective	3
Natural Science (NS)	4	Minor course	3
Minor course	3	Special requirement	3
Special requirement	3	Minor or special or requirement	3
	16		**15**

Senior

Fall	Hours	Spring	Hours
MC 401	3	JN 499	3
Depth writing course: JN 411-JN 419	3	Converged media capstone course	3
Minor	3	Minor	3
Special requirement	3	Special requirement (as needed)	3
Elective	3	Elective (as needed)	2
	15		**14**

Total Hours: 120-122

Requirements for Journalism Majors

Journalism majors must complete 120 hours for graduation, 35 of which within the major. The following are the University Core Curriculum courses that journalism majors must take:

Written Composition

		Hours
EN 101	English Composition	3
EN 102 or	English Composition	3
EN 103	Advanced English Composition	
if eligible or by exam		
Total Hours		6

Computer Science (CS) or Foreign Language (FL)*

		Hours
Foreign Language (FL)	*Students may take a placement exam to reduce these hours	8
Computer Science (CS)	Students must complete a 3-hour prerequisite course	6

* Students must complete either CS or FL for core requirements

Humanities (HU) and Fine Arts (FA)

		Hours
Fine Arts (FA)		3
Literature (L)		3
COM 123	Public Speaking	3
One additional L/HU/FA	Students must complete either the HI or L sequence	3
Total Hours		12

History (HI) and Social/Behavioral Sciences (SB)

		Hours
History (HI)	Students must complete either the HI or L sequence	6
Social/Behavioral Sciences (SB)		6
Total Hours		12

Natural Science (N) and Mathematics (MA)		Hours
Natural Sciences (must include labs)		8
MATH 110	Finite Mathematics (or higher)	3
Total Hours		11

Writing (W)*	Hours
Writing (W)	6
* Writing fulfilled with required journalism courses	
Total Hours	6

In addition to the general education requirements in the University Core curriculum, journalism majors are required to complete 15 hours of special requirement (300- and 400-level courses outside of JN/MC/APR/TCF), and either a minor or a second major. Courses taken for a minor or a second major can be used to fulfill the special requirement hours.

For the major, journalism students complete 35 hours in the general track, the visual track, or the sports news and information track, as outlined below. **NOTE:** Of the 120 hours required for this degree, 72 hours must be outside of JN/MC/APR/TCF under our national accreditation guidelines.

General Journalism Track		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1
JN 311	News Writing and Reporting	3
JN 261	Visual Journalism	3
JN 312	Editing	3
JN 315	Advanced News Writing & Reporting	3
Upper division JN elective		3
Senior-level Depth Writing Course (any JN course numbered JN 411 to JN 419, except JN 417)		3
Select one Converged Media Capstone course:		3
JN 382	Internship	
JN 430	Digital Media Workshop	
JN 417	Digital Community Journalism	
JN 492	International Media Production	
Or other course approved by the department		
MC 401	Mass Comm Law & Regultn	3
JN 499	Journ Issues and Ethics	3
Mass Communication elective (any JN/MC/APR/TCF)		3
Total Hours		35

Visual Journalism Track		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1
JN 261	Visual Journalism	3
JN 311	News Writing and Reporting	3
JN 312	Editing	3
MC 401	Mass Comm Law & Regultn	3
JN 499	Journ Issues and Ethics	3
Upper Division JN elective		3
Mass Communication elective (any JN/MC/APR/TCF)		3
Select three of the following (one must be at the 400-level):		9
JN 320	Intermediate Journalism Design	
JN 325	Reporting Writing Across Media	
JN 361	Intermediate Photo Journalism	
JN 382	Internship	
JN 417	Digital Community Journalism	
JN 426	Advanced Journalism Design	
JN 430	Digital Media Workshop	
JN 461	Advanced Photojournalism	
JN 491	Special Topics in Journalism	
JN 492	International Media Production	
Total Hours		35

Sports News and Information Track		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1
APR 231	Intro Public Relations	3
JN 261	Visual Journalism	3
JN 311	News Writing and Reporting	3
JN 312	Editing	3
JN 318	Sports Writing & Reporting	3
JN 382 or JN 417	Internship (internship coursework must be sports related) Digital Community Journalism	3
Upper Division JN elective		3
JN 418	Advanced Sports Writing & Reporting	3
MC 401	Mass Comm Law & Regultn	3
JN 499	Journ Issues and Ethics	3
Total Hours		35

Minors, Second Majors and Electives

Popular minors, second majors and upper-level special requirements are found in the following areas: American Studies, Anthropology, Art, Classics, Communication Studies, Consumer Sciences, Creative Writing, Criminal Justice, Dance, Economics, English, Foreign Language, General Business, History, Human Development and Family Studies, Philosophy, Political Science, Psychology, Religion, Sociology, Theater, and Women's Studies. The department encourages second majors where possible, especially within the College of Arts and Sciences.

Grades

To receive credit toward graduation, a student must receive a C- or higher for all journalism courses and all other courses in the College of Communication and Information Sciences. Students must have an overall grade point average of 2.0 to enroll in upper division courses in the college.

Major Status

Students should declare their major and minor as soon as by completing the Change of Major/Minor Application online under the Student tab of myBama.

Advising Assistance

Students will be assigned individual faculty advisers, which will be listed in DegreeWorks and posted outside the main departmental office. Students will also receive group advising in beginning journalism courses. Students should use DegreeWorks to check their progress and make academic plans to help them graduate on time. The formal advising period begins each semester one week prior to the beginning of registration and lasts for three weeks. However, if questions or special problems arise, students may make appointments with their academic advisers or contact the journalism office at any time during the semester.

Professional Experience

Students should seek a variety of media work experience, exploring opportunities at the campus newspaper, digital publications, WVUA-TV, campus radio stations, the yearbook, literary magazines, departmental and alumni newsletters and magazines, and in university public relations and sports information offices. Students are strongly encouraged to seek internships with professional media organizations throughout their study at UA. The Department of Journalism has ongoing internship programs with The Tuscaloosa News, WVUA-TV and several other local media outlets. Internships may be completed for academic credit when the student has completed 45 semester hours and JN 311 News Writing and Reporting with a C- or better. Job and internship listings are posted on the departmental website and outside the JN office located in 490 Reese-Phifer Hall. An internship before the senior year makes students marketable when they graduate. The College placement office, located in 297 Reese-Phifer Hall, also assists students with finding internships and jobs.

Minors in Journalism

Four journalism minors are available to students who wish to study journalism in conjunction with other major areas of coursework. **NOTE:** APR and TCF majors may not minor in journalism.

General Journalism Minor		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1

JN 261	Visual Journalism	3
JN 311	News Writing and Reporting	3
JN 312 or	Editing	3
JN 315	Advanced News Writing & Reporting	
MC 401	Mass Comm Law & Regultn	3
One JN elective		3
Total Hours		20

Photojournalism Minor

		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1
JN 261	Visual Journalism	3
JN 311	News Writing and Reporting	3
JN 361	Intermediate Photo Journalism	3
JN 461 or	Advanced Photojournalism	3
JN 382	Internship	
MC 401	Mass Comm Law & Regultn	3
Total Hours		20

Journalism Design Minor

		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1
JN 261	Visual Journalism	3
JN 311	News Writing and Reporting	3
JN 312	Editing	3
JN 320	Intermediate Journalism Design	3
JN 426	Advanced Journalism Design	3
Total Hours		20

Sports News and Information Minor

		Hours
MC 101	Intro To Mass Communic	3
JN 101	Journalistic Principles and Practices	1
JN 150	Mechanics of Media Writing	1
JN 261	Visual Journalism	3
JN 311	News Writing and Reporting	3
JN 312	Editing	3
JN 318	Sports Writing & Reporting	3
JN 418	Advanced Sports Writing & Reporting	3
Total Hours		20

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students must pass each course with a C- or better for the credits to count toward hours earned in the minor. Students must have a 2.0 or higher to enroll in upper division classes in the College of Communication and Information Sciences. Students are responsible for ensuring that they have met all University, College, major and minor requirements. Each student must meet with an adviser in the major department for academic planning each semester. College and department advisers also are available for additional assistance with minor requirements.

Faculty

Professors

Bissell, Kimberly

Bragg, Rick

Bunker, Matthew

Greer, Jennifer

Lowrey, Wilson

Associate Professors

Daniels, George

Lowrey, Wilson

Assistant Professors

Parrott, Scott

Roberts, Christopher

Lecturer

Brantley, Chip

Professor emeritus

Sloan, W. David

Instructors

Bragg, Dianne

Cummings, Meredith

Meissner, Dan

Courses

JN 101. Journalistic Principles and Practices. 1 sem. hr.
The role of journalism in a democratic society, emphasizing history, law and ethics. Students are introduced to career options and opportunities for journalism majors and minors. Students start a professional blog, which will be used as their work portfolio as they progress in the department. Required of all majors and minors in the department.

JN 150. Mechanics of Media Writing. 1 sem. hr.
The logic of sentence and paragraph structure in the context of media writing and accuracy with emphasis on grammar, punctuation and word choice. This online course is required for journalism, advertising and public relations majors and minors.

JN 200. Foundations of Journalism. 3 sem. hrs.
Introduction to the concepts, processes and practices of journalism, including news values, writing, design, history, law and ethics. Not required of JN majors and minors but can be an elective. This is a Core Humanities designated course.

JN 261. Visual Journalism. 3 sem. hrs.
This course introduces students to visual concepts used in journalism. Emphasis on using digital still photography and digital videos to communicate information to audiences across media platforms.
Prerequisite(s): JN 101 or JN 200 or APR 221 or APR 231; and JN 150 and MC 101.

JN 311. News Writing and Reporting. 3 sem. hrs.
Fundamentals of newsgathering and newswriting for news and public relations organizations. This course is a prerequisite for all succeeding journalism and PR courses. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): MC 101 and JN 150 one of the following: (JN 101 or JN 200 or APR 231).

JN 312. Editing. 3 sem. hrs.
Preparing copy for publication across media platforms with an emphasis on careful writing, accuracy and presentation. Writing proficiency is required for a passing grade in this W designed course.
Prerequisite(s): JN 261 and JN 311.

JN 315. Advanced News Writing & Reporting. 3 sem. hrs.
Advanced practice of newsgathering and newswriting for specialized topic areas, ranging from hard news stories on topics such as government, education, and the environment to soft news, human interest, and feature stories. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 311.

JN 318. Sports Writing & Reporting. 3 sem. hrs.
Newsgathering and newswriting for sports journalism. Students cover a beat and write both hard news stories (game stories, breaking news) and soft news (human interest and features) about their areas.
Prerequisite(s): JN 311.

JN 320. Intermediate Journalism Design. 3 sem. hrs.
Survey and application of techniques and practices in presenting information visually, including infographics, photojournalism, and design and layout of publications and Web sites.
Prerequisite(s): JN 261 and JN 311.

JN 325. Reporting Writing Across Media. 3 sem. hrs.
Emphasizes process of conceptualizing and executing news and feature content in text, audio and video for multiple media platforms, including print, online, broadcast, mobile and social media.
Prerequisite(s): JN 261 and JN 311.

JN 361. Intermediate Photo Journalism. 3 sem. hrs.
Further instruction in the tools, concepts and practice of using digital still photography and video to communicate information to audiences. Emphasis on storytelling, technical proficiency and specialized techniques.
Prerequisite(s): JN 261 and JN 311.

JN 380. Independent Study. 1-3 sem. hr.
Analysis of current issues and practices in journalism under the supervision of a faculty member. May be repeated for credit provided the topics are different.
Prerequisite(s): JN 311.

JN 382. Internship. 1-3 sem. hr.
Variable credit (1 to 3 hours). Students may take up to 3 hours of internship credit toward their degree. For each credit, students must work 60 hours at a professional media organization under the supervision of a media professional.
Prerequisite(s): JN 311.

JN 411. Depth Reporting & Writing. 3 sem. hrs.
Reporting and writing longer news and feature stories for publication in print and online. Students learn advanced techniques in information gathering, story organization, non-fiction writing and multimedia elements. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 412. Opinion Writing. 3 sem. hrs.
The art and practice of writing editorials, columns and other persuasive forms for print and online. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 415. Advanced Magazine Writing. 3 sem. hrs.
Writing and editing of long-form articles for publication in print and online depth magazines. Students learn advanced narrative non-fiction writing techniques and how to gather information for longer feature stories. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 417. Digital Community Journalism. 3 sem. hrs.
Students produce and publish original articles, photography and multimedia stories for Dateline Alabama, the department's student-run news site covering the campus and Tuscaloosa comunities. Students hone professional journalism skills as editors and producers and work to build professional portfolios.
Prerequisite(s): JN 315 or JN 320 or JN 325 or JN 361.

JN 418. Advanced Sports Writing & Reporting. 3 sem. hrs.
Advanced techniques in reporting and writing for sports media. Students analyze published work, begin their own sports blog and write several articles, including two in-depth pieces.
Prerequisite(s): JN 315 or JN 318.

JN 419. Food Writing & Reporting. 3 sem. hrs.
Conceptualizing, pitching, reporting and writing food journalism. Students read and analyze examples of food news and feature articles. Students produce several short articles and one in-depth piece of food journalism.
Prerequisite(s): JN 315 and JN 318.

JN 426. Advanced Journalism Design. 3 sem. hrs.
Application of graphic design techniques to both print and Web-based publications. Theory and practice of creating and executing layouts and design.
Prerequisite(s): JN 312 and JN 320.

JN 430. Digital Media Workshop. 3 sem. hrs.
Explores and applies media convergence principles and techniques in producing online content. Course emphasizes writing, editing, shooting photos and video and designing for the web and other digital delivery forms. Students produce special digital projects on themed topics.
Prerequisite(s): JN 315 or JN 318 or JN 320 or JN 325 or JN 361.

JN 436. Teaching Of Journalism. 3 sem. hrs.
Introduction to the techniques and practices of teaching scholastic journalism and management of school print, online and broadcast media. Designed for students who wish to teach and advise K-12 newspapers, yearbooks, literary magazines, web sites or radio and television programs.

JN 461. Advanced Photojournalism. 3 sem. hrs.
This capstone photo class is for students interested in a career in photojournalism. Advanced techniques, deadline pressure and problem solving are addressed, with emphasis on producing a professional portfolio of digital still photograhy and video.
Prerequisite(s): JN 361.

JN 491. Special Topics in Journalism. 3 sem. hrs.
Course content varies to explore current topics in journalism. Repeatable for up to 6 credits if the topics are different.
Prerequisite(s): JN 261 and JN 311.

JN 492. International Media Production. 3 sem. hrs.
Capstone course in print and online magazine reporting, writing, photographing and designing in an international setting. Students take on leadership roles associated with producing a magazine and its accompanying Web site. Departmental approval required.
Prerequisite(s): JN 312 and one of the following: JN 315 or JN 318 or JN 320 or JN 361.

JN 499. Journ Issues and Ethics. 3 sem. hrs.
Examination of current issues and ethical practices in the field of journalism. Students complete a major research project on issues and ethics.
Prerequisite(s): Senior Standing
Prerequisite(s) with concurrency: MC 401.

Department of Telecommunication and Film

The TCF Department uses all types of electronic mass media to tell stories. Whether the platform is creative fiction or hard-hitting news, documentaries or sports, students in TCF learn the skills needed to tell these stories in the most effective way possible. Students also examine the meaning of story and how it influences culture and society, and how culture and society influence the story itself. Students tell their stories through both digital media and social media, and may also study video gaming. TCF majors develop technical skills, managerial competence, reasoning ability and ethical judgment so they can become leaders in all types of electronic media. Telecommunication and film courses reflect a liberal arts and sciences orientation, with a professional focus.

The major in telecommunication and film requires a total of 120 hours of coursework for graduation, of which 33 will be taken in the major. Of the 120 hours required for this degree, 72 hours must be taken outside of JN/APR/MC/TCF.

In addition to the general education requirements, the requirements for the major sequence and the requirements for the minor, all telecommunication and film students must complete 12 hours of classes at the 300-level or higher outside the major or minor (called the special requirement).

Because the curriculum is subject to accreditation requirements, students should see the department adviser regularly, beginning with the first semester on campus.

Sample Curriculum for the TCF Major

Freshman

Fall	Hours	Spring	Hours
EN 101	3	COM 123	3
MC 101	3	EN 102	3
Fine arts (FA)	3	TCF 100	3
Natural science (NS)	4	Elective*	3
Social/behavioral sciences (SB)	3	Natural science (NS)	4
	16		**16**

Sophomore

Fall	Hours	Spring	Hours
English literature	3	English literature	3
History (HI)	3	Major	3
Major	3	Minor	3
Major	3	Social/behavioral sciences (SB) or History (HI)	3
Math	3		
	15		**12**

Junior

Fall	Hours	Spring	Hours
Foreign language or computer science (FL or C)	3-4	Foreign language or computer science (FL or C)	3-4
Major	3	Major	3
Minor	3	Minor	3
Social/behavioral sciences (SB)	3	Minor	3
Special requirement	3	Special Requirement	3
	15-16		**15-16**

Senior

Fall	Hours	Spring	Hours
Major	3	Elective*	3-5

Major	3 General A&S elective	3
Minor	3 Major	3
Minor	3 Minor	3
Special requirement	3 Special Requirement	3
	15	**15-17**

Total Hours: 119-123

*Elective hours vary and may or may not be necessary to reach the 120 hours required for graduation.

Core Curriculum and General Education Requirements

Freshman Composition (FC)

		Hours
EN 101	English Composition	3
EN 102	English Composition	3
Or by exam*		
Total Hours		6

Humanities (HU) and Fine Arts (FA)

		Hours
Fine Arts (FA)		3
Literature sequence (L)		6
COM 123	Public Speaking	3
Total Hours		12

Natural Science (N) and Mathematics (MA)

	Hours
Natural Science (N)	4
Natural Science (N)	4
Mathematics (MA)	3
Total Hours	11

History (HI) and Social/Behavioral Sciences (SB)

	Hours
History sequence (HI)	3
Social/Behavioral Sciences (SB)	6
HI or SB	3
Total Hours	12

Pre-major Requirements

		Hours
MC 101	Intro To Mass Communic	3
Computer Science (CS) or Foreign Language (FL)		6-8
Total Hours		9-11

Additional Core Requirements

	Hours
Writing (W)*	6
Total Hours	6

*Courses in the major, minor and special requirement with a W designation may be used to fulfill this requirement.

Additional Requirements for the Major Sequences

Media Production Sequence

		Hours
TCF 100	Intro To Telecommunication	3
TCF 201	Intro to Video Production	3
TCF 361	Intro to Post Production	3
TCF 387	Tcf Internship	1-3
Two additional TCF 300-level production courses		6
Two additional TCF 400-level production courses		6
One TCF 300- or 400-level critical studies course		3
One MC 400-level course		3
Total Hours		28-30

Electronic Reporting Sequence

		Hours
TCF 100	Intro To Telecommunication	3
TCF 286	Intro to Reporting (Formerly TCF 331, Intro to Reporting)	3
TCF 288	News Shadowing Intern	1
TCF 332	Intermediate Electronic Reporting	3
TCF 333	Advanced Electronic Reporting	3
TCF 334	Electronic News Capstone/Portfolio	3
TCF 335	New Media	3
TCF 387	Tcf Internship	1-3
TCF 433 or MC 409 or MC 421 or MC 425	Broadcast News Analysis or or History Mass Communctn Political Communication Media Management	3
MC 401	Mass Comm Law & Regultn	3
One additional TCF 300-level or above course		3
Total Hours		29-31

Sports Emphasis

		Hours
TCF 100	Intro To Telecommunication	3
TCF 286	Intro to Reporting (Formerly TCF 331, Intro to Reporting)	3
TCF 288	News Shadowing Intern	1
TCF 332 or TCF 321	Intermediate Electronic Reporting Announc Perform For Rtv	3
TCF 333	Advanced Electronic Reporting	3
TCF 334	Electronic News Capstone/Portfolio	3
TCF 335	New Media	3
TCF 387	Tcf Internship	1-3
TCF 433	Broadcast News Analysis	3
MC 401	Mass Comm Law & Regultn	3
One additional TCF 300-level or above course		3
Total Hours		29-31

Production Management Sequence

		Hours
TCF 100	Intro To Telecommunication	3
TCF 201 or TCF 145	Intro to Video Production Media Production	3
TCF 215	Writing Presentn Telecom	3
TCF 357	Production Management	3
TCF 367	Advanced Prod. Management	3
TCF 437	Specializations in Prod. Mgt.	3
TCF 438	Producing	3
One MC 400-level course		3
One additional TCF 300-level or above course		3
One additional MC or TCF 400-level course		3

Critical Studies in Film and Television Sequence

		Hours
TCF 100	Intro To Telecommunication	3
TCF 112	Motion Pict Hy Criticism	3
TCF 145	Media Production	3
TCF 215 or EN 409	Writing Presentn Telecom Writing For Film	3
TCF 311	Critical Stdy Television	3
Select two of the following:		6
TCF 340	International Cinema	
TCF 411	Seminar in Critical Studies	
TCF 433	Broadcast News Analysis	
TCF 440	Sem In American Cinema	
TCF 441	Documentary Production	
MC 407	Mass Communic Research	3
One additional TCF 300-level course		3
One additional MC or TCF 400-level course		3
Total Hours		30

Documentary Sequence

		Hours
TCF 100	Intro To Telecommunication	3
TCF 201	Intro to Video Production	3
TCF 215	Writing Presentn Telecom	3
TCF 241	The Documentary Form	3
TCF 361	Intro to Post Production	3
TCF 387 or TCF 380	Tcf Internship Independent Study	1-3

TCF 411	Seminar in Critical Studies	3
One additional TCF 400-level course		3
One MC 400-level course		3
One additional MC or TCF 400-level course		3
Total Hours		28-30

Minors for TCF Majors

Students majoring in telecommunication and film may choose one of the following options when selecting their minors:

- a minor in any subject offered in an academic division outside the College of Communication and Information Sciences except the Culverhouse College of Commerce and Business Administration
- one of the specialized minors offered by the Culverhouse College of Commerce and Business Administration, especially for communication majors (see Minors in Business for Non-Business Majors section of this catalog)
- A minor in communication studies (students may not, however, minor in journalism, advertising or public relations)

Admission into the Minor

Students are expected to formally declare a minor. With the assistance of an adviser in the minor department, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

TCF Minor

Requirements

A minor in telecommunication and film is available to all students except those majoring in journalism, advertising or public relations. At least 21 hours, and no more than 27 hours, are required in College of Communication and Information Sciences minors. Requirements for the minor are MC 101 Intro To Mass Communic, and 15 additional hours of TCF courses, of which six hours must be in 300-level courses or above.

Admission into the Minor

Students are expected to formally declare a minor. With the assistance of an adviser in the minor department, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. A C- or better is required in all courses in the minor.

Minor Courses

The minor in telecommunication and film requires the successful completion of the following 21 semester hours:

Telecommunications and Film Minor		Hours
MC 101	Intro To Mass Communic	3
TCF 100	Intro To Telecommunication	3
TCF electives 300- or 400-level		6
TCF electives		9
Total Hours		21

Students may alternately select a minor concentration in media management. The minor in telecommunication and film media management requires the successful completion of the following 21 semester hours:

Media Management Minor		Hours
MC 101	Intro To Mass Communic	3
TCF 100	Intro To Telecommunication	3
TCF 145	Media Production	3
TCF 305 or	Telecom Audience Analys	3
TCF 310	Telecommunication Programming	
TCF 390	Electronic Media Sales	3
TCF 445	Telecommuncatn Media Mgt	3
TCF 448	Telecommun Policy & Law	3
Total Hours		21

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Chair

Williams, Glenda Cantrell

Ronald Reagan Endowed Chair of Broadcasting

Billings, Andrew C.

Professors

Billings, Andrew C.

Butler, Jeremy G.

Evans, William

Singleton, Loy A.

Tran, Pamela K. Doyle

Zhou, Shuhua

Associate Professor

Williams, Glenda Cantrell

Assistant Professor

Bruce, Michael D.

Lee, Doohwang

Payne, Matthew Thomas

Raimist, Rachel

Schwartz, Adam J.

Warner, Kristen J.

Instructors

Cammeron, Dwight B.

Champion, Maya

Clark, Chandra

Corrao, Nicholas S.

Grace, Andrew B.

Kim, Yonghwan

Academic Advisor

Champion, Maya

Professor Emeritus

Brown, James A.

Bryant, Jennings

Zillmann, Dolf

Associate Professor Emeritus

Hartsook, Richard M.

Center for Public Television and Radio

Brock, Elizabeth

Public Television

Baughn, David

Deal, Bruce

Eifler, Amy

Holloway, Tammy

Letcher, John M.

Alabama Public Radio

Duff, David

Duggins, Patrick

Henslee, Kathy

Courses

TCF 100. Intro To Telecommunication. 3 sem. hrs.
Explores film, television, news, and new media with a focus on story, and examines how each of these mediums function at both the level of individual and the level of global society.

TCF 112. Motion Pict Hy Criticism. 3 sem. hrs.
Development of the cinema, with emphasis on relation of technical advances to film content and style.

TCF 145. Media Production. 3 sem. hrs.
Through lectures and hands-on projects, students will learn the equipment and techniques used in media production and editing. Open to non-majors, TCF Management majors, and TCF Critical Studies majors. NOT open to TCF Media Production or TCF Documentary majors.

TCF 155. Freshman Seminar. 3 sem. hrs.
Freshman Seminars fulfill a core curriculum requirement while enhancing students academic development using critical skills, writing and field experience.

TCF 201. Intro to Video Production. 3 sem. hrs.
Introduces students to theories and techniques of video production and post-production. Topics include script formatting, camera technique, lighting, sound, and editing. In this hands-on course, students will produce short video projects that emphasize technical proficiency and visual storytelling.
Prerequisite(s): TCF 100 Sophomore standing or higher.

TCF 215. Writing Presentn Telecom. 3 sem. hrs.
Study of and practice in techniques and skills used in writing and presenting scripts, copy, and professional reports as required by telecommunication media.
Prerequisite(s): TCF 100.

TCF 241. The Documentary Form. 3 sem. hrs.
The documentary as an informative and persuasive means of communication. Analysis and discussion of selected documentaries.
Prerequisite(s): TCF 100.

TCF 286. Intro to Reporting. 3 sem. hrs.
Students will learn the terminology of the electronic reporting industry and will begin writing for broadcast. This course also covers basic equipment used in the newsroom and in the field, and serves as the foundation class for the TCF Reporting sequence.
Prerequisite(s): TCF 100.

TCF 287. Symposium. 1 sem. hr.
Visiting professionals series on various topics.

TCF 288. News Shadowing Intern. 1 sem. hr.
Provides students with an opportunity to follow media professionals on the job and discover career requirements before beginning the news sequence.
Prerequisite(s): TCF 100.

TCF 301. Intro to Audio Production. 3 sem. hrs.
Students will learn the basics of microphone properties, microphone placement, recording techniques, editing, and sound design.
Prerequisite(s): TCF 201.

TCF 305. Telecom Audience Analys. 3 sem. hrs.
Study of methods used in gathering information about telecommunication audiences. Analysis, interpretation, and application of information to decision making in electronic media.
Prerequisite(s): TCF 100.

TCF 310. Telecommunication Programming. 3 sem. hrs.
Program planning, development, and strategies for radio and television stations, networks, cable systems, and syndication. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): TCF 100.

TCF 311. Critical Stdy Television. 3 sem. hrs.
Critical analysis of television programs and commercials. Examples are presented for study and evaluation.
Prerequisite(s): TCF 100.

TCF 312. Advanced Videography. 3 sem. hrs.
In this hands-on intensive production workshop, students will develop their creative vision, aesthetic eye, and technical skill to help materialize their ideas on screen. Topics include digital video cameras, framing, composition, camera movement, and lighting techniques.
Prerequisite(s): TCF 201.

TCF 315. Scriptwriting. 3 sem. hrs.
Introduction to writing scripts for television and film. Emphasis includes both the creative and technical aspects.
Prerequisite(s): TCF 100.

TCF 321. Announc Perform For Rtv. 3 sem. hrs.
Performance for Radio and Television. Practical approach to techniques and practices necessary for effective appearances on electronic media. Emphasizes copy interpretation, interview skills, and studio performance for microphone and camera.
Prerequisite(s): TCF 100.

TCF 331. Intro to Reporting. 3 sem. hrs.
Prerequisite(s): TCF 100.

TCF 332. Intermediate Electronic Reporting. 3 sem. hrs.
Elements of news reporting for the electronic media, with focus on radio writing, reporting, and performance. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): TCF 100 and TCF 288.

TCF 333. Advanced Electronic Reporting. 3 sem. hrs.
Advanced examination, preparation, and presentation of news for the electronic media. Activities include writing, electronic news gathering, reporting, and anchoring.
Prerequisite(s): TCF 100 and TCF 332.

TCF 334. Electronic News Capstone/Portfolio. 3 sem. hrs.
Practical application of electronic news reporting and anchoring with an emphasis on preparing a career portfolio.
Prerequisite(s): TCF 100 and TCF 332 and TCF 333.

TCF 335. New Media. 3 sem. hrs.
Preparation and presentation of news and sports for new media outlets, including internet formats.
Prerequisite(s): TCF 145 or TCF 333.

TCF 340. International Cinema. 3 sem. hrs.
Study of motion pictures produced throughout the world. Subjects may change each time course is offered. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): TCF 112.

TCF 351. Commercial Production. 3 sem. hrs.
This course offers students the opportunity to combine their knowledge and skills in creating and producing broadcast commercials. Students will be involved in all stages of the process from research and development of scripts to production and postproduction of finished commercials and final presentation of the finished product.
Prerequisite(s): TCF 201.

TCF 357. Production Management. 3 sem. hrs.
Study of and practice in techniques and skills used in organizing location shoots for television, film, documentaries, and commercials.

TCF 361. Intro to Post Production. 3 sem. hrs.
In this project-driven course, students will learn and practice non-linear video editing principles and techniques, media management, sound design, and digital theory.
Prerequisite(s): TCF 100.

TCF 367. Advanced Prod. Management. 3 sem. hrs.
Advanced study and practice in the skills needed for successful production management, including professional software. Emphasis placed on critical thinking, problem solving and team building.
Prerequisite(s): TCF 100 and TCF 357.

TCF 380. Independent Study. 1-3 sem. hr.
Investigative studies in telecommunication and film. May be repeated.

TCF 381. Tcf Practicum. 1-3 sem. hr.

TCF 387. Tcf Internship. 1-3 sem. hr.
Supervised field experience in approved operations in the telecommunication and film industries. No more than 3 hours credit for TCF 387 may be applied toward a degree.

TCF 389. Telecom Applied Topics. 3 sem. hrs.
This is a special topics class which has different topics for each class.
Prerequisite(s): TCF 100.

TCF 390. Electronic Media Sales. 3 sem. hrs.
Understanding prospective clients' businesses; knowledge and application of audience research; application of the marketing model; understanding of effective media mix and advertiser buying influences; assessment of competitive advantages; and written presentations.
Prerequisite(s): TCF 100.

TCF 398. Production Crew. 1-3 sem. hr.
Prerequisite(s): TCF 201.

TCF 401. Corporate & Inst. Media. 3 sem. hrs.
Study of non-broadcast media systems used within corporations and organizations for training, communications, sales, public relations, and instruction. Topics include production techniques; instructional design for video/multimedia; distribution methods; budgeting and management; and careers in corporate media.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 411. Seminar in Critical Studies. 3 sem. hrs.
Advanced study of selected topics in television or film criticism.
Prerequisite(s): MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR PLMA 190 OR ACT 28 OR SAT 690.

TCF 412. Screen Directing. 3 sem. hrs.
Advanced instruction in directing for television and film with an emphasis on directing actors, blocking for the camera, and narrative production techniques. Course includes the production of short fiction projects on digital video.
Prerequisite(s): TCF 201 and TCF 361 and TCF 312.

TCF 420. Telecommuncatn Effects. 3 sem. hrs.
Study of individual and social effects of electronic mass media, with emphasis on research results.

TCF 433. Broadcast News Analysis. 3 sem. hrs.
Historical and critical study of electronic-media news in the United States. Writing proficiency is required for a passing grade in this W-designated course.

TCF 434. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

TCF 435. Documenting Justice II. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Second semester of course.
Prerequisite(s): TCF 434.

TCF 437. Specializations in Prod. Mgt. 3 sem. hrs.
Examines the special requirements needed for production managers in areas outside of the standard television or film production. Topics include animation, gaming and documentaries.
Prerequisite(s): TCF 100.

TCF 438. Producing. 3 sem. hrs.
Examines the economic structures and business practices used by the entertainment industry. This includes development contract law, financing, distribution, pitching and negotiating with Guilds & Unions.
Prerequisite(s): TCF 100.

TCF 440. Sem In American Cinema. 3 sem. hrs.
Study of selected topics in United States film. Writing proficiency is required for a passing grade in this W-designated course.

TCF 441. Documentary Production. 3 sem. hrs.
This course guides students through the design, pre-production planning, production, postproduction and subsequent evaluation of individual and group documentary project(s). Instruction topics include contemporary visual storytelling, cinematic philosophies, ethical issues, research, funding, and distribution.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 442. Advanced Video Projects. 3 sem. hrs.
The application of advanced production skills, including directing, videography, editing, and production management, in the production of a polished, short-subject film on digital video. Students work in groups over the course of the semester, shepherding film project from preproduction to exhibition.

TCF 444. Sem Telecomm/Film Topics. 3 sem. hrs.
Analysis of contemporary issues in the broadcasting, cable, and/or motion picture industries, including social aspects. Topics vary with instructor. May be repeated 3 times (9 hours credit) with different topics.

TCF 445. Telecommuncatn Media Mgt. 3 sem. hrs.
Study of broadcast station and network organization, cable systems, decision-making processes, and research techniques.

TCF 448. Telecommun Policy & Law. 3 sem. hrs.
Organizational structures and processes that formulate and apply laws and regulations shaping broadcast, cable, satellite, and new electronic media operations. Analysis of national policies and standards and their relationship to regional and international controls and practices.

TCF 451. Advanced Television Production. 3 sem. hrs.
Students will receive instruction and practical experience in the development of programming for television, including research, planning and budgeting for series productions. Students will produce small and large group projects for broadcast and follow the projects from concept through the completion.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 461. Advanced Post Production. 3 sem. hrs.
Further instruction in nonlinear editing with emphasis on special effects, motion graphics, and advanced editing techniques.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301; or TCF 150.

TCF 490. Capstone Prod. Projects I. 3 sem. hrs.
Students will begin development on a production project from first draft to a shooting ready production binder.

TCF 491. Capstone Prod. Projects II. 3 sem. hrs.
Students produce and edit short senior projects developed in TCF 490. Project will include a fine cut and a press kit.
Prerequisite(s): TCF 490.

School of Library and Information Studies

The history of the School of Library and Information Studies began in 1929 when the University instituted an academic program in school librarianship within the College of Education. An Alabama Senate joint resolution in 1969 authorized The Board of Trustees of The University of Alabama to establish the Graduate School of Library Service. Since that time, the School has pursued a mission to provide students with the skills and knowledge required to meet the information needs of a diverse population. It has also grown substantially. In 1989, the School was renamed the School of Library and Information Studies (SLIS), reflecting increasing academic and professional emphasis on emerging information technologies. In 1997, the School of Library and Information Studies merged with the College of Communication to form the College of Communication and Information Sciences.

The School has offered the Master of Library and Information Studies (MLIS) since 1972, the Master of Fine Arts (MFA) degree in Book Arts since 1985 and the PhD since 1988. The MLIS program has been continuously accredited by the American Library Association (ALA) since 1972. Students who complete the MLIS go on to work as information professionals in a wide variety of careers, including academic, school media, public and special libraries, archives, digital libraries, special collections, and more.

The School offered undergraduate courses beginning in 1999. Undergraduate course listings are currently under review and expansion, with more information coming soon.

Faculty

Professor and Director

Julien, Heidi Elizabeth

Professors

Aversa, Elizabeth

Miller, Steven Kent

Osburn, Charles B.

Pitschmann, Louis A.

Wallace, Danny

Associate Professor

Edwards, Anne

Embree, Anna

Maccall, Steven

Naidoo, Jamie C.

Weddle, Jeffrey

Assistant Professor

Albertson, Dan

Bonnici, Laurie J.

Campbell-Meier, Jennifer

Johnston, Melissa

Riter, Robert

Adjunct Professor & Internship Coordinator

Bullock, Sybil

College of Community Health Sciences

The College of Community Health Sciences is a community-based campus of The University of Alabama School of Medicine, providing an additional site for the training of medical students during the clinical years. All medical students complete phase I of the medical training program on the Birmingham campus. Upon completion of phases II and III (the third and fourth years of clinical training) through any of the three campus systems, a student is awarded the doctor of medicine (MD) degree from The University of Alabama School of Medicine.

A major education program of the college entails providing the last two years of clinical training for a portion of the medical students enrolled at The University of Alabama School of Medicine. The college's resources are used to contribute to the education of the "undifferentiated physician," one who is competent at the basic level in all the traditional clinical disciplines and whose education is enriched by an orientation toward and skill in primary care and community medicine.

Each medical student who receives part or all of the required clinical training in Tuscaloosa is enrolled in and receives the MD degree from The University of Alabama School of Medicine. Thus, clinical clerkships and electives must meet or exceed the minimum standards set by the appropriate faculty committees of The University of Alabama School of Medicine.

Objectives

The primary responsibility of the educational programs of the College of Community Health Sciences is to contribute to the improvement of health care in Alabama, emphasizing small towns and rural areas. The programs of the College are designed to increase the accessibility and availability of health care and to improve its quality.

The College of Community Health Sciences is charged with the responsibility of:

- Providing the last two years of clinical training for a portion of the medical students enrolled in the University of Alabama School of Medicine.
- Operating a family practice residency program based in Tuscaloosa.
- Making expertise in the medical and health sciences available to existing educational programs on campus, at both the undergraduate and graduate levels.
- Working with The University of Alabama School of Medicine to integrate the programs and operations of the medical program with the non-medical aspects of health care delivery.
- Providing training sites and internships for students in social work, nursing, health care management, pharmacy, clinical dietetics and health education.

In addition to its medical education programs, the College of Community Health Sciences offers courses at both the undergraduate and graduate levels for students pursuing degrees at The University of Alabama. Coursework at the graduate level represents opportunities for graduate students to undertake study in some area of medicine or the health sciences that relates to their formal course of study, thereby providing a means for broadening and enriching their graduate work by relating it to health, health care and the health care delivery system.

Family Practice Residency Program

The College's Family Practice Residency Program was approved in September 1973, and the first resident was accepted in January 1974. The college is committed to producing family physicians capable of providing continuing, comprehensive, family-centered care for their patients. Through the educational programs of its family practice residency, the college fosters the knowledge, attitudes and skills necessary to create outstanding physicians who will deliver high-quality patient care. This key mission has the resources and support of the entire college dedicated to its accomplishment.

Initiatives have been developed to further enhance opportunities for the college to fulfill its mission of increasing accessibility, availability and quality of health care to Alabama's citizens.

Rural Health Scholars Program

The Rural Health Scholars Program was created to give high-school students from rural backgrounds and who are interested in becoming health professionals a head start in the college preparation they will need for admission to all health professional schools.

The Rural Medical Scholars Program was created to prepare 10 outstanding rural scholars each year for family medicine or primary care practice in Alabama. Scholars enroll in preparatory courses at UA and, upon completion of their studies, must meet requirements for admission to medical school. Students matriculate two years at UAB for the basic medical sciences component of their curricula and return to Tuscaloosa to CCHS for the clinical clerkship years, where they will be involved in special medical experiences that include rural preceptorships. The following certificate program is offered for Rural Medical Scholars only. For more information regarding this program, please contact Dr. James Leeper, Professor and Director of Educational Programs; Department of Community and Rural Medicine; (205) 348-1355; jleeper@cchs.ua.edu.

Faculty

Administrative Officers

Ulzen, Thaddeus, Interim Dean, Associate Dean UASOM-Tuscaloosa Campus, Associate Dean for Academic Affairs-CCHS

Higginbotham, John C., Associate Dean for Research & Health Policy

Cockrum, Elizabeth L., Associate Dean for Clinical Affairs

Alexander, Chelley K., Assistant Dean for Graduate Medical Education

Evans, Ashely, Assistant Dean for Undergraduate Medical Education

Taylor, Michael A., Assistant Dean for Information Technology

Maxwell, John B., Jr., Chief Administrative Officer & Director of UA Student Health

Arendale, Allison H., Director of Financial Affairs

Murphy, Pat A., Registrar, TERM Director

Department Chairs

Alexander, Chelley - Family Medicine

Avery, Daniel M. - Obstetrics and Gynecology

Higginbotham, John C. - Community & Rural Medicine

Sundar, Vijaya - Internal Medicine

Taylor, Micheal - Pediatrics

Ulzen, Thaddeus - Psychiatry & Behavioral Medicine

Wallace, Joseph C., Surgery

Professors

Avery, Daniel

Blum, Alan, Wallace Endowed Chair

Cockrum, Elizabeth

Leeper, James D.

Ireland, Robert B.

McKnight, Jerry T.

Ulzen, Thaddeus

Wheat, John R.

Associate Professor

Arnold, Scott

Evans, Ashley

Garner, Margaret P.

Rubin, Nancy J.

Sheppard, Robert A.

Slaughter, Robert

Sundar, Vijaya

Taylor, Michael A.

Waits, John

Wallace, Joseph C.

Assistant Professor

Alexander, Chelley K.

Arnold, Susan

Taylor, Heather

Burgess, Karen B.

Daly, Sandra

Foster, Pamela

Fulgham, Scott

Giggi, Marisa

Grattenger, Kristine R.

Hall, William M.

Harder, Natasha

Harrell, Regina

Honea, Neil

Hooper, Dwight E.

Guin, Susan

Jones, III, Leonard W.

Kuhajda, Melissa C.

Lucy, Bennie

McDonald, John

Miller, George P.

Paisley, Cameron

Ralls, Martha A.

Reed, Marion D.

Stewart, J. Grier

Tucker, Melonie

Thomas, Jerrill K.

Tyler, Cynthia

Vaughn, Ross

Warren, John

Williams, Nelle

Williamson, Lloyda B.

Winkler, Timothy W.

Yerby, Lea

Instructor

Smith, Elizabeth

Emeriti

Baumhover, Lorin, A.

Coggins, Wilmer J.

Doughty, Barbara P.

Ficken, Roland P.

Gaskins, Samuel E.

Hefelfinger, David C.

Lumpkin, T. Riley

Mozley, Paul D.

Pieroni, Robert E.

Philip, Elizabeth B.

Rand, Elizabeth H.

Russel, Lisa R.

Snyder, Arthur F.

Winternitz, William W.

Courses

CHS 101. Emergency Medical Services I. 3 sem. hrs.

CHS 155. Freshman Seminar. 3.00 sem. hrs.
Freshman Seminars provide an opportunity for faculty members in the College of Community Health Sciences to engage with a small group of students (limited to no more than 20 students) in the context of a subject related to medicine or health related topics that is personally and professionally meaningful. The structure of the freshman seminar allows for flexibility in instructional methods.

CHS 200. Health & Wellness Advocacy. 3 sem. hrs.
Education and training in core peer education skills preparing for certification as Peer Educator (CPE). Health and wellness education targeted to college age in : alcohol/substance use, tobacco, stress, nutrition/fitness, eating disorders, financial management, sexual health/ healthy relationships.

CHS 210. Principles of Weight Mgt. 3 sem. hrs.
This course will explore multiple aspects of weight management through a holistic health approach. Components of nutrition, stress management, physical activity principles and techniques within an ecological framework will be emphasized.

CHS 330. Intro Clinical Medicine. 3 sem. hrs.
Course is designed in lecture format to acquaint students engaged in premedical studies with the major patterns of illness in the U.S. and with the medical disciplines that treat those diseases. Enrollment limited to junior and senior premed students.

CHS 400. Rural Envir/Occup Health. 3 sem. hrs.
Designed to help the student recognize environmental and occupational health hazards in the rural setting, the effects of exposure to these hazards, and preventive measures that should be taken to avoid them.

CHS 420. Basic Epidemiology. 3 sem. hrs.
A basic course in epidemiology designed for students in health or related fields which points out the population-oriented approach to epidemiology and shows how the methodology can be used to develop knowledge of disease etiology with application to the entire spectrum of health service.

CHS 422. Community Clinical Proc. 3 sem. hrs.
A combination of scheduled sessions and fieldwork. Field work includes visiting with assigned rural advisor, completing a rural community assessment, and assisting with community health screenings and education programs.

CHS 423. Indep Stdy Community Med. 1-6 sem. hr.
An individual learning experience that involves the student in documentation of, evaluation of, and/or strategic planning for solving a community health problem.

CHS 425. Biostatistics. 3 sem. hrs.
Statistical methods and concepts particularly appropriate for biomedical research and health-related subjects.

CHS 427. Health Policy & Planning. 3 sem. hrs.
A problem-based learning seminar that introduces the student to the field of health policy and planning.

CHS 432. Comm Clinical Process II. 3 sem. hrs.
Continuation of studies from CHS 422, including introduction to basic physical assessment techniques and continuation of a community project.

CHS 442. Practical Issues Behav Medicin. 3 sem. hrs.
Lectures and readings will examine behaviors that compromise overall health status (eg, tobacco use, noncompliance) and behavioral aspects of specific medical conditions (eg, heart disease, cancer, pain). Topics will include bioethics, racial/ ethnic disparities and rural mental health issues. Writing proficiency within this discipline is required for a passing grade in this course.

CHS 490. CIncal Correlations in Biochem. 3 sem. hrs.
The purpose of this course is to study biochemical principles in a clinical context and to observe the process of medical information assembly and reasoning in clinical care.

Certificate of Rural Community Health

There continues to be a shortage of physicians and other health care providers in many parts of rural Alabama. Research suggests that people who grow up in rural areas are much more likely than others to return to rural areas to practice medicine. In 1996, The University of Alabama School of Medicine (UASOM), through its Tuscaloosa campus College of Community Health Sciences (CCHS), instituted the Rural Medical Scholars Program (RMSP). This is an alternative pathway for rural Alabama students to prepare themselves future work as primary care physicians in rural parts of the state.

The RMSP, a five-year program that leads to a medical degree (MD), has a separate admissions process. As part of the RMSP, students develop camaraderie with fellow students and form a support network with rural health professionals. To begin developing this important support system, the Rural Medical Scholars spend the academic year prior to entry into medical school involved in a basic rural health curriculum on the Tuscaloosa campus. Some of these students are college seniors pursuing a bachelor's degree at The University of Alabama (UA), and some already have this degree. Following successful completion of this pre-matriculation experience, the path of medical education continues with basic science courses at the UASOM Birmingham campus for two years and clinical work at the UASOM Tuscaloosa campus for two years.

The RMSP has developed its own set of courses, sometimes in collaboration with other colleges at UA, which meets the needs of Rural Medical Scholars. This set of courses is designed to meet the needs of both undergraduate and graduate students. Undergraduate students will still meet the requirements for graduation.

Students with special needs will still take appropriate courses. The Certificate of Rural Community Health will provide recognition to all of these students for the work they do in a CCHS core set of five courses.

Certificate Program Objectives

1. Provide students with the basic tools, principles and knowledge to be able to investigate rural health issues and to determine solutions to rural health problems.
2. Create a support network among students, rural physicians, other rural health and agricultural professionals, and rural residents.
3. Keep students from rural Alabama connected with their rural roots to increase the probability that they will return as rural health practitioners.

Completion Requirements

The Certificate requires successful completion (earn a grade of B or better in each course) of 15 credit hours in five courses (three hours each) from the following:

Rural Environmental and Occupational Health*

		Hours
CHS 400	Rural Envir/Occup Health	3
CHS 500		3
HHE 500		3

*Introduces basics of rural environmental and occupational health. Students acquire knowledge of biological, chemical, physical, safety and ergonomic health hazards common to the rural South. Safety regulations and preventive measures are explored where applicable.

Epidemiology*

		Hours
CHS 420	Basic Epidemiology	3
CHS 520		3
HHE 521		3

*Acquaints students with basic epidemiological methods and principles. Emphasis is on study design and sources of error. The investigation of disease etiology and risk factors are the focus of this course.

Community Clinical Process I*

		Hours
CHS 422	Community Clinical Proc	3
CHS 522		3

*Explores the roles and responsibilities of a rural primary care physician as they address the health and health care needs of individuals, families and communities. Communication basics and interviewing skills are explored and practiced. Health care practice issues such as physician/patient relationships, confidentiality and HIPPA Guidelines, and ethics in medicine are presented. In addition, basic clinical assessment skills and techniques, including a comprehensive health history and physical exam, are introduced. Fieldwork includes shadowing primary care physicians, community interviews, health promotion activities and rural industry tours.

Biostatistics*

		Hours
CHS 425	Biostatistics	3
CHS 525		3
HHE 526		3

*Introduces basic statistical concepts and procedures in health-related research, including descriptive statistics, probability, parametric procedures (e.g., t-tests, analysis of variance, correlation, regression) and nonparametric procedures (chi-square tests and ranking procedures). Explores select data sets related to rural community issues through the application of learned procedures and the production of research reports.

Survey of Issues in Health Care Management*

		Hours
HCM 473	Survey Issues Health Care Mgt	3
HCM 573		3

*Explores current issues facing the health care industry. Issues are analyzed and evaluated regarding health care sectors involved, level of importance and possible solutions/outcomes, as well as stakeholder demands. Students are expected to discuss and support analysis of health care issues.

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College of Education

History and Objectives

The University of Alabama has long been concerned with programs for the preparation of public school personnel. In 1844, just 13 years after the University's establishment, a Normal Department was provided for those who wished to prepare for teaching careers. By 1872, the Normal Department had become the Normal School. By 1899, the trustees had replaced the Normal School with the School of Pedagogy and Psychology, which in 1902 became the School of Philosophy and Education. In 1908, the school was reorganized as the Department of Education; further organizational changes resulted in the name being changed to the School of Education one year later. The present College of Education was established in 1928. Until 1924, the University's offerings in teacher education were almost entirely limited to undergraduate programs for elementary and high school teachers. Graduate work in school administration was added in 1924, and all programs — undergraduate and graduate — were greatly expanded from 1927–1928. Doctoral programs were authorized in 1951.

The College of Education is the division of The University of Alabama that has the responsibility for administering all professional programs and courses designed for the preparation of teachers and other educational professionals. Experiences in academic programs are devoted to developing individuals' understanding of knowledge construction, learning, pedagogy and responsible professional practice in the contexts of education. The University of Alabama's College of Education seeks to prepare professionals who demonstrate and value reflective practice and ethical decision making through respecting diversity, honoring difference and promoting social justice.

Admission and Retention Requirements (General Regulations)

Student Responsibility

College of Education students are expected to register for appropriate courses necessary to make reasonable progress toward completing program requirements by the expected date of graduation. Students must familiarize themselves with the requirements contained in this catalog.

Local Mailing and Email Addresses

Students are expected to maintain mailing addresses and email addresses at which communications from the College of Education will, with reasonable certainty, reach them. The University of Alabama utilizes myBama as the official means of recording address information. It is the student's responsibility to update addresses as needed through the Self-Service component of myBama.

Class Hour Load

The normal class hour load for College of Education students is 15–17 hours per semester. Seniors who need 18 hours during the final semester to complete degree requirements may register for those hours without special permission. In all other cases, each student must have at least a B average to receive permission from the College's Office of Student Services to register for more than 18 hours. The maximum class hour load with a B average permit is 21 hours. During the summer/Interim session, the maximum load without a B average permit is 17 hours (seven hours per term/three hours during Interim). A student with a B average permit may carry a maximum of 18 hours (nine hours during one summer term, six hours during the other summer term and three hours during Interim term).

Class Attendance

Students are expected to pursue successful completion of all courses for which they are registered, including regular class attendance. The dean may withdraw a student from courses and/or may assign failing grades at any time during a semester when excessive absences have accumulated or when the student is disenrolled from a course.

Academic Bankruptcy

The College of Education observes the general University policies governing academic bankruptcy and also maintains a committee to review all petitions for academic bankruptcy. The petitioning process begins in the College's Office of Student Services and Certification.

Auditing Courses

With approval from the dean, an education student may audit one course. No tests or final examinations may be taken when a course is audited. An audited course is counted as if it were a credit course in the determination of the class hour load. Normally, an audited course may not be repeated for credit.

Duplicate Credit

A course that substantially duplicates the content of a course for which credit has already been earned may not count toward degree requirements.

Repeating Courses for Higher Grades

With written permission from the dean, education students may repeat certain courses in which a grade of D was received. The dean's written permission must be filed with the registrar of the College of Education. When the cumulative grade point average is computed, each enrollment in the course will count as hours attempted. However, only the most recent enrollment may count toward degree requirements.

Transfer Between Divisions

Before transferring into the College of Education from another division of The University of Alabama, a student must attend an orientation session sponsored by the College of Education Office of Student Services and Certification.

Transfer Equivalencies

Professional education courses transferred from other institutions may not be used to meet requirements in a state-approved program of study within the College of Education. Courses may be utilized as electives.

Second Bachelor's Degree

If a student wishes to earn a second bachelor's degree in the College of Education, a minimum of 32 semester hours of additional credit must be earned in residence in the College of Education. These 32 hours must be over and above all credit earned for the previous degree. All quantitative and qualitative requirements for the second degree program must be met in full, according to standards in effect on the date of enrollment in the second program.

Degrees and Programs Offered

The College of Education offers undergraduate programs leading to the bachelor of science degree in education. The College offers the following teacher education programs (**NOTE:** P refers to "pre-school" and K to "kindergarten"):

- Elementary education (K-6)
- Foreign language (6-12 or P-12), with concentrations in French, German, Latin and Spanish
- Music education (P-12), with concentrations in instrumental or choral music
- Physical education (P-12)
- Secondary education (6-12), with majors in English language arts (comprehensive), French, German, Latin, mathematics (comprehensive), science (comprehensive), social science (comprehensive) and Spanish
- Special education, with K-6 and 6-12 concentrations in collaborative education, multiple abilities program (K-6) with dual certification in elementary and collaborative, and early childhood with dual certification in early childhood special education (birth through age 8) and early childhood education (P-3)

A concentration leading to the bachelor's degree is also offered in exercise and sport science, but this concentration does not lead to teacher certification.

A student enrolled in the Graduate School may be admitted to one of the College of Education's alternative (nontraditional, fifth-year) certification programs in order to complete a master's degree and obtain initial licensure (Class A) in a broad range of teaching fields.

General Degree Requirements

The College of Education offers undergraduate programs leading to the bachelor of science in education or the bachelor of science degree. These programs require the completion of a minimum of 120 semester hours in prescribed and elective courses, as set forth in this catalog (most programs require the completion of more than 120 hours). Graduates will also have met the prescribed minimum standards of scholarship.

A minimum of 32 semester hours, including nine of the last 18 hours required for a degree, must be earned in residence at The University of Alabama as an enrolled student in the College of Education.

If a student does not complete requirements for the undergraduate degree within a period of seven years from the date of admission, the College of Education will modify the student's program to bring it into compliance with current degree and certification requirements. In addition, a student in a teacher education program must complete that program's requirements within four years from the date of formal admission to the program, or he or she must reapply for admission.

Upon re-entering, any student with a break in his or her enrollment at The University of Alabama (fall or spring semesters) will be placed in the program required of newly admitted students. Exceptions may be made by personnel in the Office of Student Services and Certification.

Because of the number of educational options available to students in the College, sample programs of study for the various education majors cannot be provided here. Instead, detailed program outlines are available from academic advisers in the various program offices. In general, students take 100-level courses during the first year of college, 200-level courses during the second year, and 300- and 400-level courses during the third and fourth years.

Each undergraduate program contains a group of courses classified as general studies. These courses must be taken in the proper prescribed sequence during the freshman and sophomore years, until they are completed. Required studies in English are part of the general studies requirement; a student must enroll each semester in the prescribed composition and literature courses until the English requirement is completed.

Upper and Lower Divisions

Students enrolling in a teacher education program (a program leading to Alabama Class B certification) enter the upper division of the College of Education at the time of their admission to a Teacher Education Program (TEP).

Retention in the College of Education

To continue to be eligible for enrollment in the upper division of the College of Education, a student must successfully complete any remaining courses in the teaching field(s) or major, and, for certification programs, the professional education courses, including successful clinical placements. Unless otherwise indicated for a specific program, the GPA in the teaching field — and, if transfer work, the overall GPA — must remain at least 2.75. In professional education courses, the GPA must be at least 2.75, with no grade less than C. For students in non-certification programs, required minimum GPAs vary from program to program. All students should be aware of and monitor their GPAs and should project when they will be able to enroll in required courses. All students are expected to become familiar with the regulations discussed in Academic Records and General Academic Policies section of this catalog.

Examinations

Individuals who apply to the Alabama Department of Education for initial Alabama professional educator certificates or alternative certificates must meet the requirements of the Alabama Educator Certification Testing Program (AECTP) as a precondition for certification. The AECTP consists of basic skills assessments and subject assessments. The basic skills assessments of the AECTP consist of the applied mathematics, reading for information and writing assessments. Passing scores in all three areas are required of candidates prior to admission to a teacher education program.

The subject assessments required in the AECTP consist of selected tests from the Praxis II. Each candidate must obtain a passing score in the appropriate content field on the Praxis II prior to internship. Candidates should see their advisors for the appropriate test code prior to registering for Praxis II. Information regarding test dates, test codes and testing sites may be obtained from the Office of Student Services, 104 Carmichael Hall.

Each student in a certification program must also show proof of mastery of all Quality Teaching Standards (QTS), Professional Standards and Content Standards prior to program completion. An Individualized Standards Assessment Report (ISAR) for each student will be reviewed and evaluated at various checkpoints to ensure mastery of standards. Upon program completion, the final ISAR will be evaluated prior to graduation and recommendation for certification.

Clinical Placements

The majority of upper-division education courses require clinical placements in the schools. At a minimum, each student shall have participated in 150 clock hours prior to the internship. Ninety of these 150 hours shall be in increments of at least 3 hours each. The majority of field experiences must occur in P-12 schools.

All clinical placements in the College of Education are coordinated through the Office of Clinical Experiences. These placements are in the greater Tuscaloosa area in order to facilitate supervision of students. If an appropriate placement cannot be secured in the Tuscaloosa area, recommendations will be made for an alternate placement by the department head.

Professional Liability

Students enrolled in College of Education courses that require a clinical placement are required to provide proof of professional liability insurance before being allowed to participate in a clinical placement. Professional liability insurance may be purchased through an independent insurer or is available to students who are members of the Student Alabama Education Association (SAEA), the Council for Exceptional Children (SCEC) or Collegiate Music Educators National Conference (CMENC). Further information and membership applications may be obtained from the Office of Clinical Experiences.

Required General Studies

These required general studies courses include most University of Alabama Core Curriculum requirements; however, the core curriculum writing requirement (the W courses) is not satisfied by these hours of general studies courses.

NOTE: Courses listed below reflect general options, but not all teaching fields are enhanced by every option, and some require additional coursework. Additional courses approved by the state of Alabama Articulation and General Studies Committee could be appropriate under the terms of the Statewide Articulation Reporting System (STARS). To avoid taking extra courses, each student should select, whenever possible, general studies courses that may be utilized in his or her teaching field or major. Please refer to notes below and to the specific teaching field(s) for more precise requirements.

I. Written Composition Requirement		Hours
EN 101 & EN 102 or	English Composition and English Composition	3-6
EN 103	Advanced English Composition	
Total Hours		3-6

II. Humanities and Fine Arts Requirements		Hours
One of the following Literature courses:*		3
EN 205	English Literature I	
EN 206	English Literature II	
EN 207	World Literature I	
EN 208	World Literature II	
EN 209	American Literature	
EN 210	American Literature II	
EN 215	Honors English Literature I	
EN 216	Honors English Literature II	
EN 219	Honors American Literature	
EN 220	Honors American Literature II	
One of the following Public Speaking courses:**		3
COM 123	Public Speaking	
COM 210	Oral Interpretn Literatr	
One of the following Fine Arts courses:		3
ARH 151	Intro To Visual Arts	
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
MUS 121	Intro To Listening	
MUS 250	Music In World Cultures	
TCF 112	Motion Pict Hy Criticism	
TH 114	Intro To The Theatre	
UH 210	Honors Fine Arts	
Additional Course from Area II, if needed		3
Total Hours		12

*Students should select courses from areas II and IV so that at least one 6-semester-hour sequence of either literature (e.g., English, American or world) or history is presented.

**A music education major may satisfy this requirement by earning a passing score on the Speech Proficiency Examination; however, appropriate hours in Area II must be met.

III-A. Natural Sciences Requirement		Hours
Select a total of 8 hours from the following:		
AEM 120	Aerospace Science For Educators	4
AY 101 & AY 102	Intro To Astronomy and Intro Astronomy Lab	4
BSC 108	Intro Biology Non Maj I	0 or 4
BSC 109	Intro Biology Non Maj II	4
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	4

BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	4
CH 101	General Chemistry	4
CH 104	Introductory Chemistry	4
GEO 101	The Dynamic Earth	0 or 4
GEO 102	The Earth Through Time	0 or 4
GY 101 or	Atmospheric Proc & Patterns	4
GY 102	Earth Surface Processes	
PH 101	General Physics I	4
PH 115	Des Ph Non-Science Maj	4

Students in elementary education, the Multiple Abilities Program, and special education must complete four additional semester hours from N courses. It is suggested that students in elementary education choose AEM 120 Aerospace Science For Educators or another adviser-approved, interdisciplinary science course.

III-B. Mathematics Requirement

		Hours
Select one of the following:		3
MATH 110	Finite Mathematics	
MATH 112	Precalculus Algebra	
MATH 113	Precalculus Trigonometry	
MATH 115	Precalc Algebra & Trig	
MATH 121	Calculus & Applications	
MATH 125	Calculus I	
MATH 126	Calculus II	
Total Hours		3

Students in elementary education (K-6), the Multiple Abilities Program (K-6), and special education are required to complete additional work in mathematics. See notes under these teaching fields. Students preparing to teach general science, biology, chemistry and physics need to meet specific MATH requirements. See notes under the various teaching fields.

IV. History and Social and Behavioral Sciences Requirement

		Hours
Select at least one HY course:*		3
HY 101	Western Civ To 1648	
HY 102	Western Civ Since 1648	
HY 203	Amer Civilizatn To 1865	
HY 204	Amer Civilizatn Sc 1865	
Additional courses:		9
PY 101	Intro To Psychology	
HD 101	Life Span Human Development	
ANT 100	Intro To Anthropology	
ANT 102	Intro Cultural Anthropology	
ANT 103	Discoveries In Archaeology	
EC 110	Principles of Microeconomics	
EC 111	Principles of Macroeconomics	
GY 105	World Regional Geography	
GY 110	Prin Human Geography	
PSC 101	Intro American Politics	
SOC 101	Intro To Sociology	
SOC 202	Analysis Social Problems	
Total Hours		12

*Students should select courses from areas II and IV so that at least one 6-semester-hour sequence of either literature or history (e.g., Western, American) is completed.

V. General Pre-professional, Major and Elective Course

Courses appropriate to the degree requirements and major of the individual student. Secondary and P-12 majors (except special education) should select courses appropriate to their majors. Additional, specific courses may be required for the various majors. Students should consult an adviser for requirements in a major.

Educational Psychology Prerequisite Requirement

Introduction to Psychology (PY 101 Intro To Psychology) or Life Span Human Development (HD 101 Life Span Human Development) may be taken as part of area IV requirements.

Foreign Language/Computer Language Requirement

Choose one of the following options:

- Option 1: Satisfy the foreign language core requirement (FL) of 3-8 hours.
- Option 2: Satisfy the computer science core requirement (C) of 6 hours.

NOTE: Option 2 is not part of area V of the articulation agreement. Students should consult an adviser for requirements in a major.

EDU 200 Orient to Teacher Education is required for all students in education seeking teacher certification (general studies elective).

In some majors, additional courses may need to be taken to complete a total of 120 hours or to fulfill prerequisites for the required courses above (variable hours).

Professional Licensure (Certification)

The curricula offered by the College of Education are designed to prepare teachers and school administrative and supervisory officials for the appropriate certificates. Students graduating with a bachelor of science degree in education who have successfully completed a certification program are eligible to apply for the Alabama Class B professional certificate. Certification programs are available for the Alabama Class A and Class AA professional certificates for college and university graduates who are holders of bachelor's and higher degrees. The College of Education, in accordance with the regulations of the Alabama State Board of Education, also provides courses for persons who hold expired certificates and wish to reinstate them.

Students planning to teach outside the state of Alabama are held personally responsible for knowledge of professional licensure requirements in those states. Such students should inform their advisers of their intentions, as the advisers may be of assistance in ensuring compliance with other states' requirements.

Application for Certification

Any University student who plans to teach in Alabama after graduation must file the proper application form for a certificate. Forms are available and are filed in the Office of Student Services and Certification in 104 Carmichael Hall. Applications should be filed at least one semester in advance of graduation. A student who does not apply for professional licensure within 60 months after completing the state-approved program will be required to meet the current program. Students who plan to teach in other states must secure the proper professional licensure application forms from those states' departments of education. The associate dean for student services in the College of Education has been designated the teacher certification officer for the University. Students who need information about or assistance with certification should consult the associate dean for student services.

Teacher Warranty

According to regulations mandated by the Alabama State Board of Education, the College of Education ensures that "a candidate's competency to begin his or her professional role in schools is assessed prior to completion of the program and/or recommendation for certification" and establishes, publishes and implements "policies to guarantee the success of individuals who complete its approved programs and are employed in their area(s) of specialization." The College of Education provides "remediation at no cost to such individuals who are recommended . . . and are deemed to be unsatisfactory based on performance evaluations established by the State Board of Education and within two years after program completion."

Admission to a Teacher Education Program (TEP)

Students must be formally admitted to a TEP. Applications are available through the Office of Student Services located at 104 Carmichael Hall. Students who meet the following criteria may apply for admission to the teacher certification program in their area of study. However, meeting the minimum criteria does not guarantee admission to TEP.

1. Alabama Educator Certification Testing Program (AECTP). The Basic Skills Assessments of the AECTP must be taken prior to TEP. Students must have a passing score for all three sections of the test (reading, writing and mathematics). Information about the Basic Skills Assessments is available at actapps.act.org/wkala/wkala or from Student Services in 104 Carmichael Hall.
2. A minimum grade point average of 2.75 must be met and maintained for admission. Transfer students must have the required GPA on all coursework taken at this institution as well as overall coursework (UA and transfer work). Exception: physical education with a minimum 2.5 GPA.
3. EN 101 English Composition and EN 102 English Composition or EN 103 Advanced English Composition with credit for EN 101 English Composition; Students must have a grade of a C or higher in the coursework.

4. BEP 305 Educational Psychology or BEF 360 Social Psychol Foundtns Educ or BEP 360 Social Psychol Foundtns Educ; Students must have a grade of a C or higher in the coursework.
5. Students must have a grade of a C or higher in an approved public-speaking course.
6. Students must successfully complete at least 60 semester hours, including at least 41 hours of general studies. Students must not have exceeded 120 semester hours.
7. Students must successfully complete the pre-professional lab experience in their field of study with a grade of at least a C. Students should check with an academic adviser for the specific departmental course with the lab experience.
8. The Alabama State Department of Education and the College of Education require all students to be fingerprinted prior to admission to TEP. Fingerprinting will be required during the semester of the pre-professional course, and background clearance must be obtained prior to clinical placements in the schools.
9. Students should check with program advisers and/or personnel in the Office of Student Services and Certification to fulfill the writing requirement.
10. Each candidate for admission must successfully complete an interview with at least two faculty members. Speaking skills and knowledge and abilities based on previous coursework will be among the attributes assessed in the interview. The interview evaluation will become part of the application to a TEP.
11. Appropriate faculty and administrative signatures are required once all criteria have been met.

Admission to a TEP is competitive and meeting standard criteria does not guarantee admission. Those who meet standard criteria are guaranteed consideration for admission to a teacher preparation program. Admission will be based on evaluations of the applications to identify those applicants who are best qualified and who show strong likelihood of success in their chosen areas. The evaluations will reveal the relative strengths and weaknesses in each applicant's credentials in light of the areas in which the applicant wishes to teach and the applicant's understanding of, and commitment to, teaching as a profession, as well as oral skills, mature judgment and the demeanor necessary to become successful as a teacher. Any applicable test score, or subscore, and grades in previous courses should reflect a strong record in the major area of study. A student's entire application will be evaluated by appropriate members of the faculty who will make a recommendation to the dean. The dean will make the final decision.

Individuals who hold college degrees and wish to complete certification programs to teach in the public schools or to complete a TEP in order to qualify for certain graduate programs must meet the admission criteria and must follow all application procedures. Students should check with academic advisers in the office of Student Services for specific departmental TEP admissions requirements.

Internship Requirements

After successfully completing all required coursework, each student is screened for placement in an internship. The teaching internship (formerly called student teaching) is one of the most important experiences a College of Education student has. It is generally regarded as the culminating activity of one's preparation to become a teacher. At The University of Alabama, the internship is a full-semester, full-time assignment and must be taken in residence.

Both undergraduate and alternative (nontraditional, fifth-year) students must file internship applications with the Office of Clinical Experiences in 101 Graves Hall during the semester preceding the semester of the planned internships. The application process begins by attending a mandatory application session, which is held at 4 p.m. in 118 Graves Hall on the first Wednesday in October for spring-semester interns and the first Wednesday in March for fall-semester interns.

A student may apply to enroll for an internship if the following criteria have been met:

1. The student must have been admitted to the teacher education program or an alternative (nontraditional, fifth-year) program. Internship applications will not be processed until admission is verified.
2. The student must have completed all courses in the major or majors prior to the internship unless otherwise indicated by the education department.
3. Unless otherwise indicated, the student must have earned a minimum grade point average of 2.75, both for all University of Alabama courses attempted and for all University of Alabama courses and transfer courses combined.
4. Unless otherwise indicated, the student must have earned a minimum grade point average of 2.75 in each major, both for University of Alabama courses in each major and for combined University of Alabama courses and transfer courses in each major.
5. The student must have earned a minimum grade point average of 2.75 for professional education coursework, with no grade below a C in any professional education coursework.
6. The student must have completed all methods courses and appropriate professional coursework with grades of C or higher.
7. The student must have removed from the transcript any grade of incomplete (I) recorded in required courses; grades of incomplete are treated as grades of F.
8. The student must have obtained a passing score on the Praxis II Subject Assessment test in the appropriate content field.
9. The student must show mastery of required standards in all courses completed prior to internship, as indicated on the Individualized Standards Assessment Report.

Registration for Internship Credit Hours

Undergraduate students are required to register for the number of internship credit hours specified by their programs. In some programs, an undergraduate student may be allowed to choose a nine-hour registration or a 12-hour registration; course requirements are the same whether nine hours or 12 hours are taken. Students in programs requiring two different internship placements are required to register for two different sections of internship. A student enrolled for an internship must not expect to be enrolled in other courses while interning unless otherwise indicated by the department.

Policy on Internship Placements

All internship placements are coordinated by the College of Education Office of Clinical Experiences. A placement site will be selected in a manner to ensure the quality of the internship experience and of the supervision provided by the cooperating teacher. All internship placements (except for music education) are in the greater Tuscaloosa area in order to facilitate supervision of students by University of Alabama faculty or other designee of the department heads. Placement outside the greater Tuscaloosa area is made only if the Office of Clinical Experiences and/or a department head determine(s) that appropriate local placement is unavailable.

A student may apply for an overseas internship if he or she meets certain criteria and if appropriate placement can be coordinated by the Consortium for Overseas Student Teaching (COST) and/or The University of Alabama. Applications for overseas internships are taken during January for placements for the next fall semester and in June for placements the succeeding spring semester. Contact the Office of Clinical Experiences in 101 Graves Hall for additional information.

Internship Assignments

Majors who enroll for internships in collaborative teacher education, early childhood special education, elementary education, physical education, English as a second language, foreign language education (P-12) and music education should expect split assignments. Secondary education students who have comprehensive majors may receive a single internship assignment or a split assignment. A secondary education student who has two secondary education majors receives a split assignment, one-half in each of the two majors. The internship for the multiple abilities program (MAP) requires the student to complete an elementary education placement and a special education placement during two different semesters.

Faculty

Dean

Peter Hlebowitsh

Senior Associate Dean

Elizabeth K. Wilson

Associate Dean and Certification Officer

Kathy Shaver-Wetzel

Associate Dean for Research & Service

David Hardy

Registrar

Lynn Heard

Administrator in Residence

Joyce Levey

Professors

Adams, Natalie G.

Arredondo-Rucinski, Daisy

Bishop, Phillip A.

Burnham, Joy

Curtner-Smith, Matthew D.

Dagley, Dave

Donovan, Carol A.

Ellis, Edwin S.

Erevelles, Nirmala

Goldston, M. Jenice

Gregg, Madeleine

Harrison, Patti L.

Hlebowitsh, Peter

Houser, Rick

Hutcheson, Philo A.

Iran-Nejad, Asghar

Johnson, Bob

Katsinas, Stephen G.

Major, Claire Howell

Mantero, Miguel

McKnight, Douglas

Ozzello, Kenneth B.

Petrovic, John E.

Prickett, Carol A.

Richardson, Mark T.

Satcher, Jamie F.

Schumacker, Randall

Stallworth, B. Joyce

Sunal, Cynthia C.

Sunal, Dennis

Tarter, John

Tomlinson, Stephen C.

Thoma, Stephen I.

Urban, Wayne J.

Vincent, John

Wilcoxon, S. Allen

Wilson, Elizabeth K.

Wright, Vivian H.

Associate Professors

Atkinson, Becky

Beirne-Smith, Mary

Benson, Angela

Bray, Nathaniel James

Chapman, J. Keith

Coleman, Julianne

Hancock, Carl

Hardin, Brent L.

Hardy, David

Holley, Karri

Hooper, Lisa Marie

Kuntz, Aaron

Latimer, Marvin

McGuire, Kenneth M.

Mills, Jamie D.

Mitchell, Roxanne

Mutua, N. Kagendo

Newman, Jane Lumpkin

Nichols, Sandra Cooley

Nichols, Sharon Elizabeth

Rice, Margaret L.

Robinson, Cecil D.

Sekeres, Diane C.

Shwery, Craig

Siders, James

Sinelnikov, Oleg

Spector, Karen

Assistant Professors

Besnoy, Kevin

Childers, Sara M.

Coleman, Randall

Dantzler, John

Denham, Andre R.

Henderson, Shannon

Hodges, Gary J.

Holaway, Calli

Hubbard, Janie D.

Johnson, Latrise

Livers, Stefanie

Lovorn, Michael

McDaniel, Sara

Mugoya, George C.T.

Mundy, Charlotte

Payne, Rebecca

Rush, Craig

Stran, Margaret

Summers, Robert

Sun, Jingping

Swoszowski, Nicole Cain

Tomek, Sara Elizabeth

Weston, Tracy

Wingo, Jonathan Eric

Zelkowski, Jeremy

Clinical Professors

Giesen, Judy

King, Margaret Ingram

Wetzel, Kathy Shaver

Clinical Associate Professors

Freeman, Lee

Godfrey, Ann

Leggett, Mark

Rice, Richard

Westbrook, Philip

Clinical Assistant Professors

Breaux, Arleene P.

Fowler, Melisa

Freeman, Lee

Howard, Pamela

Mendiola, Brenda

Molina, Danielle

Smith, Annie

Surman, Stacy Hughey

Clinical Instructor

Geary, Colleen

Hardin, James

Katica, Charles

Myrick, John

Prado, Josephine

Woodruff, Elizabeth A.

Emeriti

Agnew, Mary K.

Anderson, Carrel M.

Anderson, Robert T.

Baker, Truman D.

Balentine, Margaret B.

Barker, Barbara M.

Bauch, Patricia A.

Bishop, Dorothea Grace

Blackburn, J. Vernon

Burry-Stock, Judith A.

Carmichael, Karla

Cleino, Edward H.

Cobb, Hazel B.

Cohen, Sheryl

Comas, Robert Edward

Connor, Helen R.

Crump, William D.

Daane, C.J.

Dolly, John P.

Eller, Ben F.

Estes, Charles R.

Evelsizer, Ronald L.

Ferguson, Patrick

Gamble, Lanny R.

Griffin, Robert E.

Head, David W.

Holder-Brown, Loreta

Jones, Merilyn

Leigh, Robert Kenneth T.

Leles, Sam

Linkous, Ludrick W.

McCollister, Faye P.

McLean, James E.

McNutt, James K.

Mickler, J. Ernest

Mickler, Mary Louise

Mosely, James Nunnellee

Newton, Rose Mary

Palmer, W. Ross

Peseau, Bruce A.

Roberts, Marcus L., Jr.

Rogers, Mary S.

Roth, Rodney W.

Rountree, Barbara Starnes

Rovegno, Inez

Schlicter, Carol

Sellers, Curtis P.

Smith, Joe F.

Stegall, Hugh H.

Tisdale, Vera P.

Toppins, Anne D.

Vold, David J.

Wade, Archie Lee

Welker, James Doyt

Westerfield, Raymond Carl

Computers and Applied Technology (CAT) Courses

CAT 100. Computer Concepts & Applicatn. 3 sem. hrs.
Fundamentals of computer use in education, including software applications, keyboard functions, peripherals, utilities, and software.

CAT 200. Computer Education Application. 3 sem. hrs.
Introduces computer applications relating to problem solving, critical thinking, instruction, data management, and Web page development.
Prerequisite(s): CAT 100 and CS 102.

CAT 250. Computer Educ Curric Devel. 3 sem. hrs.
Utilizing computer technology and computer applications in instruction.
Prerequisite(s): CAT 200.

Counselor Education (BCE) Courses

BCE 101. Freshman Compass: UA. 2 sem. hrs.
This course for first-year UA students provides an introduction to the nature of higher education and to the function, resources, and activities of The University of Alabama. This course is designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for degree attainment.

BCE 301. Introduction To Counseling. 3 sem. hrs.
A survey course featuring a comprehensive examination of the history, functions, and related issues for the practice of counseling in school, agency, and rehabilitation settings.

BCE 411. Guidance For Teachers. 3 sem. hrs.
The sociological, psychological, and philosophical bases for guidance in schools are presented. The course is offered only through the Office of Independent Study in the College of Continuing Studies, and is appropriate for both elementary and secondary teachers. Students majoring in guidance may not receive credit for this course.

Curriculum and Instruction (CIE) Courses

CIE 480. Meth Teach Foreign Langs. 3 sem. hrs.
Theories, methods, techniques, and essential media for teaching foreign languages effectively. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CIE 497. Intern Foreign Lang Educ. 3-12 sem. hrs.
Observation and teaching of the major subject in an elementary and secondary school. Offered in the fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program.

Education Orientation (EDU) Courses

EDU 200. Orient to Teacher Education. 1 sem. hr.
This course is designed to prepare prospective candidates with the necessary prerequisite knowledge required for success in TEP.

EDU 401. Dyn. of American Ed: Honors. 3 sem. hrs.
The purpose of the course is to provide an introduction to the foundational and curricular components of education. Students will analyze key socio-cultural, academic, political and economic issues and examine the role of the teacher, student and community member in American education.

EDU 402. Diversity and Advocacy. 3 sem. hrs.
This course examines differences and diversity of students in education through the exploration of ethnicity, disability, gender and class. The course develops knowledge and tools for advocacy through an understanding of relevant law and experience through service.

EDU 403. Educational Policy. 3 sem. hrs.
This course traces the development of educational policy through the history of educational reform from the Common School Movement to the development of No Child Left Behind and its evolution to the present time. Readings and discussion will analyze the development of policy in the context of social, political, legal and institutional contributions to the purposes of public education from diverse viewpoints.

EDU 410. The Educational Studies Minor Capstone Seminar. 3 sem. hrs.
The purpose of this seminar is to facilitate students as educational researchers and advocates. Students will integrate what they have learned in the program to conduct research around a problem they will identify.
Prerequisite(s): EDU 401 and EDU 403 and EDU 402.

Educational Psychology (BEP) Courses

BEP 110. Intro Learning Strateg Skills. 3 sem. hrs.
Provides students with a theoretical and practical understanding of the importance and use of specific learning strategies. This course will also engage students in reflective decision making and critical evaluation of their learning process.

BEP 305. Educational Psychology. 3 sem. hrs.
Covers the psychological principles basic to an understanding of the learner, the learning process, and the learning situation.
Prerequisite(s): PY 101 or HD 101 or PY 105.

BEP 360. Social Psychol Foundtns Educ. 3 sem. hrs.
An examination of the social, psychological, philosophical, and historical foundations of education in a modern democratic society. Critical attention is paid to contrasting theories of human nature, the learner and the learning process that, when combined with judgments about the purpose and conduct of life, have shaped pedagogy.
Prerequisite(s): PY 101 or HD 101.

BEP 410. Academic Mentoring. 1-6 sem. hr.
Introduction to academic mentoring is a service learning and leadership course. Students mentor K-12 school students in academic subjects. Class readings and discussions support the mentoring relationship by focusing on learning, motivation, metacognition, listening, personality, and the social contexts of schooling.

Educational Research (BER) Courses

BER 345. Educational Statistics. 3 sem. hrs.
Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

BER 450. Assess Of Classrm Learng. 3 sem. hrs.
Survey of teacher-made and standardized instruments for understanding students' achievement and evaluating teaching. Field practicum in the schools is required.

Elementary Education Programs (CEE) Courses

CEE 304. Teach Elem School Scienc. 3 sem. hrs.
Teaching experiences related to K-6 children's learning of science, with emphasis on teaching strategies that use inquiry approaches.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 366 and CEE 401 and CEE 478 and CEE 496 and BER 450.

CEE 320. Survey Elementary Eductn. 3 sem. hrs.
Surveys elementary education as a professional career. Students become acquainted with factors affecting successful teaching in the elementary school.

CEE 365. Literature For Children. 3 sem. hrs.
Selection and teaching of literature for elementary school children at various developmental levels, according to interests, needs, and abilities. Intensive field experience.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 370 and CEE 380 and CEE 401 and CEE 495 and KIN 364.

CEE 366. Teaching Social Sciences. 3 sem. hrs.
The nature of elementary school social studies, the resource unit, kinds of materials, teaching procedures, and the evaluation of learning. Intensive field experience.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 304 and CEE 401 and CEE 478 and CEE 496 and BER 450.

CEE 370. Teaching Reading Elem School. 3 sem. hrs.
Materials and methods in the teaching of reading, with emphasis on assessment-based instruction and planning a balanced program. Intensive field experience. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 365 and CEE 380 and CEE 401 and CEE 495 and KIN 364.

CEE 380. Teaching Elem Math. 3 sem. hrs.
Teaching experiences related to children's developmental learning of elementary mathematics, with emphasis on teaching strategies, manipulatives, and other materials useful in teaching content. Intensive field experience.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 401 and CEE 495 and KIN 364.

CEE 401. Managing Effective Classrooms. 1-6 sem. hr.
This course is designed to teach students the principles and theory of classroom management. Emphasis will be placed on the design and implementation of classroom management methods and techniques.
Prerequisite(s): Admission to Teacher Education Program.

CEE 478. Teach Lang Arts In Elem School. 3 sem. hrs.
Deepening understanding of the materials and methods for teaching of language arts with emphasis on planning and implementing a writing program. Intensive field experience. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 304 and CEE 366 and CEE 401 and CEE 496 and BER 450.

CEE 491. Early Childhood Curr. & Inst. 3-6 sem. hrs.
A foundation in the materials and methods for teaching in early childhood classrooms with an emphasis on child development, assessment, and instruction. Completion of Professional Semester II courses required.
Prerequisite(s): Admission to Teacher Education Program.

CEE 495. Practicum. 1-4 sem. hr.
Open only to students in professional semester II of the elementary education program. This course offers students significant clinical experience and opportunities to plan and teach lessons.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 380 and CEE 401 and KIN 364.

CEE 496. Senior Practicum. 3 sem. hrs.
A field-based course providing opportunities to practice authentic classroom application of various subject areas in elementary education.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 304 and CEE 366 and CEE 401 and CEE 478 and BER 450.

CEE 497. Internship Elem School. 4.5-7.5 sem. hrs.
Observation, participation, and teaching experiences supervised by selected cooperating teachers in public elementary schools. Additional supervision is provided by College of Education personnel. Offered fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 401.

Higher Education (AHE) Courses

AHE 155. Freshman Seminar. 3 sem. hrs.
Special Topic course related to issues and current events in higher education. Freshman Only.

AHE 250. The American University. 3 sem. hrs.
This course is designed to increase understanding of how universities operate as social organizations. Students will explore the main issues, roles, constituencies, and functions of the modern American university.

AHE 450. Res Asst Leadershp Devlp. 2 sem. hrs.

History, Philosophy and Sociology of Education (BEF) Courses

BEF 360. Social Psychol Foundtns Educ. 3 sem. hrs.
An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

BEF 362. School, Culture, and Society. 3 sem. hrs.
An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

BEF 490. Democracy, Ideology & Educ. 3 sem. hrs.
Students will explore the meanings and requirements of democracy, investigate how ideology functions and impacts democracy and how both democracy and ideology affects policies, practices and purposes of schooling. This course will not substitute for current and future COE requirements, including BEF 362 or 360. It will also not be used in the GPA calculation of professional studies.

Kinesiology (KIN) Courses

KIN 101. Physical Conditioning. 1 sem. hr.
The purpose of this course is to introduce the student to the knowledge base underlying proper physical conditioning of the body and appropriate techniques for participation.

KIN 102. Horseback Riding. 2 sem. hrs.
The purpose of this course is to provide students with the knowledge and skills needed to participate in horseback riding.

KIN 103. Soccer. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of soccer.

KIN 104. Basketball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in basketball.

KIN 105. Softball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for skilled participation in the sport of softball.

KIN 106. Beginning Golf. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills to participate in a basic game of golf.

KIN 107. Intermediate Golf. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to participate at an intermediate level in the game of golf.

KIN 108. Beginning Tennis. 1 sem. hr.
The purpose of this course is to provide students with the necessary knowledge and skills to motivate participation in tennis.

KIN 109. Intermediate Tennis. 1 sem. hr.

KIN 110. Indoor Rock Climbing. 1 sem. hr.
The purpose of this course is to help students understand and demonstrate proper risk management and safety techniques, as well as proper technical skills, in order to safely enjoy the activity of indoor rock climbing.

KIN 115. Badminton. 1 sem. hr.

KIN 117. Volleyball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in volleyball.

KIN 120. Aerobics. 1 sem. hr.
This course makes available three different types of aerobics: dance, water, and spinning. Each section is designed to enhance cardiorespiratory fitness through the medium of aerobic dance, aquatic activity, or cycling. The aerobic activity should be selected by section number.

KIN 121. Beginning Social Dance. 1 sem. hr.
The purpose of this course is to introduce the student to the basic dances that are performed in a social situation.

KIN 130. Swim Fitness. 1 sem. hr.

KIN 131. Beginning Swimming. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary for participation in basic aquatic activities.

KIN 132. Intermediate Swimming. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary for participation in more advanced aquatic activities.

KIN 134. Beginning Scuba Diving. 1 sem. hr.
This course is designed to introduce students to basic scuba-diving skills, theory, and equipment.

KIN 135. Advanced Suba Diving. 1 sem. hr.
This course is designed to introduce students to advanced scuba-diving skills, theory, and equipment.

KIN 136. Master's Scuba Diving. 1 sem. hr.
The purpose of this course is to provide knowledge and skills to serve as a means of participation in master level scuba diving activities.
Prerequisite(s): HPL 134 or HPL 135 or KIN 134 or KIN 135.

KIN 138. Lifeguarding. 3 sem. hrs.
The purpose of this course is to prepare the student both mentally and physically to supervise, coordinate, and successfully control an aquatic emergency.

KIN 140. Water Safety Instruct. 3 sem. hrs.
The purpose of this course is to provide knowledge of water safety instruction so that the student will be able to instruct groups and individuals in this discipline.

KIN 145. Beginning Racquetball. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to participate in the game of racquetball.

KIN 153. Judo. 1 sem. hr.

KIN 154. Self Defense for Men. 1 sem. hr.

KIN 155. Self Defense for Women. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills that will enhance the student's ability to defend herself in case of physical or sexual assault as well as to enhance her overall personal safety.

KIN 157. Beg Weight Training. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to design and follow a basic weight-training program.

KIN 167. Running. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary to design and follow a basic running program.

KIN 170. Beginning Karate. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of karate.

KIN 199. Ecol Appr Hlth & Fitness. 3 sem. hrs.
This introductory course examines the basis for and interrelationships among the six aspects of wellness: social, physical, emotional, intellectual, spiritual, and environmental. The course addresses issues of physical fitness, wellness, and personal safety applicable to the college age group.

KIN 200. Weight Mgt Principles. 3 sem. hrs.
This course is designed around successful weight management concepts and pitfalls. Topics include physical activity, behavior, and lifestyle modification. Hands-on activities include measures of daily energy expenditure, personal fitness, target body weight, and development of a personalized exercise plan.

KIN 262. Advanced Sports Techniques/Fit. 2 sem. hrs.

KIN 295. Workshop Athl Coach Educ. 3-6 sem. hrs.
This flexible and concentrated course allows for focus on selected aspects of coaching.

KIN 300. Intro to Kinesiology. 3 sem. hrs.
A critical analysis of socio-cultural issues of the body throughout history and an in-depth study of physical education, fitness, and sport programs and professions.

KIN 305. Dance & Gymnastics. 2 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in gymnastics and dance and to acquaint them with effective teaching behaviors appropriate for these activities.

KIN 306. Analysis Teaching Movement I. 3 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in invasion, striking/fielding and target games, and acquaint them with effective teaching behaviors appropriate for these same types.

KIN 307. Teach Trk & Fld/Net Game. 2 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in track and field and net/wall games, and acquaint them with effective teaching behaviors appropriate for these activities.

KIN 310. Teaching Swimming. 2 sem. hrs.
The purpose of this course is to improve students' swimming skills and knowledge of water safety and to acquaint them with effective teaching behaviors appropriate for this activity.

KIN 311. Tch Hlth Related Fitness. 1 sem. hr.
The purpose of this course is to improve students' knowledge of the basic principles of health-related fitness and acquaint them with effective teaching behaviors appropriate for fitness instruction.

KIN 350. Secondary Curriculum. 3 sem. hrs.
The purpose of this course is to provide students with knowledge of current curricular and instructional practices for secondary physical education programming. This course must be taken in conjunction with KIN 351.

KIN 351. Secondary Clinical Experience. 3 sem. hrs.
The purpose of this clinical experience is to provide students with the opportunity to teach secondary students in a public school setting. This course must be taken in conjunction with KIN 350.

KIN 352. Psychology of Coaching. 3 sem. hrs.
This course is designed to introduce students to the psychology of coaching.

KIN 360. Subj Matter Elem Physical Educ. 3 sem. hrs.
Provides knowledge of subject matter for elementary physical education and a comprehensive K-5 curriculum. Concurrent enrollment in KIN 361 is required.

KIN 361. Elem Phys Ed Curr Phil Theory. 3 sem. hrs.
This course is designed to help students improve their abilities to teach elementary physical education and to plan and reflect on lessons, units and a comprehensive K-5 curriculum. This course must be taken concurrently with KIN 360.

KIN 362. Motor Development. 3 sem. hrs.
Study of growth in phylogenetic and ontogenetic sequence, and the motor development sequence across the lifespan; integration of movement skill and knowledge development. A field experience is required.

KIN 364. P E Elem Sch Elem Ed Maj. 3 sem. hrs.
This course is designed to provide students with knowledge of current curricular and instructional practices in elementary physical education and to provide them with opportunities to practice-teach in a public-school setting.
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 380 and CEE 401 and CEE 495.

KIN 365. Applied Biomechanics. 3 sem. hrs.
Review of basic anatomy, especially the muscular system, and examination of the relationship of fundamental laws of physics to human movement. Includes mechanical principles of skill instruction and analysis.
Prerequisite(s): BSC 215 or BSC 216.

KIN 366. Evaluation and Measurement. 3 sem. hrs.
Study of the administration and evaluation of test batteries in physical education, fitness management, and personal training.

KIN 367. Training Champion Athletes. 1 sem. hr.

KIN 370. Coaching Soccer. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of soccer.

KIN 380. Coaching Officials. 3 sem. hrs.
The purpose of this course is to help students understand and demonstrate various aspects of sports officiating. To convey knowledge of basic rules in specific sport activities and also gain experience teaching sport rules to perspective officicals.

KIN 381. Coaching Football. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach football.

KIN 382. Coaching Basketball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of basketball.

KIN 383. Coaching Baseball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of baseball.

KIN 384. Coaching Track and Field. 3 sem. hrs.

KIN 386. Coaching Volleyball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of volleyball.

KIN 387. Field Experience-Disability Sport. 1-3 sem. hr.
Supervised professional experience in a fitness or related setting; observation and participation under the direction of a professional at the site.

KIN 388. Professional Development in Fitness. 3 sem. hrs.
In addition to supervised professional experience in fitness through observation/participation under the direction of a professional within the community, students will learn valuable professional development tools such as writing a resume, cover letter, and thank you letter, as well as preparing for a professional interview.

KIN 390. Sports Workshop. 3 sem. hrs.

KIN 420. Issues in Athletics Coaching. 3 sem. hrs.
This course is designed to examine current issues, controversies, trends, and problems in the field of coaching.

KIN 464. Admin Phys Educ & Sport. 3 sem. hrs.
Organization and administration of health, physical education, and athletic programs for elementary and secondary schools.

KIN 468. Adapted Physical Education. 3 sem. hrs.
The course includes basic information on disability sport and physical education programs; roles of various service agencies and organizations; state and federal legislation; and inclusion strategies. A clinical experience is required. Writing proficiency within this discipline is required for a passing grade in this course.

KIN 487. Physical Educ Teach Pract. 3 sem. hrs.
This course is designed to provide students with the knowledge and skills to implement additional curricular models at both the elementary- and secondary-school levels.
Prerequisite(s): Admission to Teacher Education Program.

KIN 488. Intern Exer-Sport Science. 3-12 sem. hrs.
Directed internship in an area of specialization, completed in cooperation with a community agency or business, clinical, or other appropriate organization. Observation and on-the-job experience through direct participation in ongoing programs.

KIN 489. Clinic Exper In Coaching. 1-6 sem. hr.

KIN 491. Sport Exercise & Social Scienc. 3 sem. hrs.
This course explores the major issues that occupy social sciences involved in the study of sport and exercise. Writing proficiency within this discipline is required for a passing grade in this course.

KIN 492. Physiology of Exercise. 3 sem. hrs.
This course examines the human physiological response to exercise.
Prerequisite(s): BSC 215 or BSC 216.

KIN 493. Fit Apprsl Exer Prescrip. 3 sem. hrs.
A study of the application of exercise testing and prescription principles to apparently healthy and diseased populations. Successful leadership, programming, and management principles for fitness settings will also be examined.
Prerequisite(s): KIN 492.

KIN 496. Independent Study. 1-6 sem. hr.
The purpose of this course is to provide the student an opportunity to further develop their skills/knowledge/instructional techniques in the area of kinesiology.

KIN 497. Internship Phys Education. 3-12 sem. hrs.
Prerequisites: Senior standing and admission to the Teacher Education Program, KIN 350, KIN 351, KIN 360, KIN 361, KIN 487, a minimum GPA of 2.5 for all work attempted, and a minimum GPA of 2.5 in the major. Full-time supervised teaching experience in elementary and secondary schools. Includes a weekly one-hour seminar. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.

Multiple Abilities Program (MAP) Courses

MAP 301. Professionalism. 3 sem. hrs.
This course is designed as a developmental sequence of integrated themes covering historical foundations of education, educational finance, legal and ethical issues, contemporary issues, and fundamental technology concepts and integrated with MAP 302, MAP 403, MAP 404 and MAP 405.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 302. Professionalism. 3 sem. hrs.
This course continues the developmental sequence of integrated themes from MAP 301. The underpinnings of various school reform efforts and their potential effects on classroom practices are a central focus of the course.

MAP 311. The Learner. 3 sem. hrs.
Integrated with MAP 312, MAP 413, MAP 414, MAP 415, this course is a developmental sequence covering concepts of human development, language development, literacy acquisition, and multiculturalism. A central theme is the development of skill in observing children and understanding their behavior from a developmental perspective. Group projects, independent study, observation, assigned readings, and field activities are part of the course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 312. The Learner. 3 sem. hrs.
Integrated with MAP 311, MAP 413, MAP 414, MAP 415, this course is designed as an integrated, developmental sequence covering human development, language development, literacy acquisition, and multiculturalism, as well as concepts of assessment of the learner. The course includes group projects, independent study, observation, assigned readings, and field activities.

MAP 321. Communicatn/Collaboratn. 3 sem. hrs.
Integrated with MAP 322, MAP 423, MAP 424, MAP 425, this course introduces concepts of cooperative partnerships in school and between home and school as a vehicle for quality educational experiences. Topics include social functions of speech communication; verbal and nonverbal communication; and skills essential for professional communication. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 322. Communicatn/Collaboratn. 3 sem. hrs.
Integrated with MAP 321, MAP 424, MAP 425, and other MAP courses, this course further explores the concept of cooperative partnerships to ensure quality educational experiences for children whose needs vary widely (including those with learning and/or behavior disabilities). Skills essential for professional communication, especially those needed for effective collaboration, are a central theme of the course. Computing proficiency is required for a passing grade in this course.

MAP 331. Facilitating Learning. 3 sem. hrs.
By observing and participating in classrooms, students acquire understanding of pedagogies appropriate for young children. This course is closely related to other MAP "Facilitating Learning" title courses. This course introduces methods of instruction in math, science, literacy, art and social studies. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 332. Facilitating Learning. 3 sem. hrs.
Using observation and study, students in this course learn about effective instruction of children with diverse needs, including those with learning and/or behavior disabilities. The course covers teaching young children science, math, music, literacy (reading, writing, and language arts), and physical education. A central theme of this course (which is integrated with MAP 331, MAP 433, MAP 434, and MAP 435) is use of instructional tactics and strategies to ensure meaningful learning and empowerment of children. Writing proficiency within this discipline is required for a passing grade in this course.

MAP 341. Field Exper/Practicum. 3 sem. hrs.
In this practicum, students complete observation-based research activities in a variety of general and special education classrooms. A variety of practicum experiences with emerging readers is required.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 342. Field Exper/Practicum. 3 sem. hrs.
This is the second MAP field experience, and it, too, is integrated with the MAP coursework that precedes and follows it. During the semester month-long practicum, students serve as apprentices in a mentoring teacher's classroom, engaging in co-planning and co-teaching lessons. They have a variety of practicum experiences with elementary students.

MAP 403. Professionalism. 2 sem. hrs.
This course extends the developmental themes of MAP 302 and is integrated with other MAP courses. Developing a "self as professional" perspective is a central theme of the course.

MAP 404. Professionalism. 3 sem. hrs.
This course extends developmental themes covered in previous "Professionalism" courses. Emphasis is on gathering and analyzing educational data and information in order to make classroom teaching more effective.

MAP 405. Professionalism. 3 sem. hrs.
This course extends developmental themes covered in previous "Professionalism" courses.

MAP 413. The Learner. 2 sem. hrs.
Integrated with MAP 311, MAP 312, MAP 414, MAP 415, and other courses in the MAP program, this course is an integrated, developmental sequence exploring child development during infancy and childhood, motivation theory, paradigms of educational psychology, and talent development.

MAP 414. The Learner. 3 sem. hrs.
The course is integrated with the rest of the MAP curriculum and teaches the theory and practice of the construction of tests for student assessment. Nonbiased assessment and placement of and intervention with culturally/socially/ economically diverse students are emphasized.

MAP 415. The Learner. 3 sem. hrs.
Building on previous MAP courses, this course develops a sophisticated understanding of human development, human learning and language acquisition, and the social context of all of these. Vygotsky's social learning theories and their practical implications for the multiple abilities classroom are a key focus.

MAP 423. Communication And Collaboratn. 1 sem. hr.
Building on previous MAP courses, the course focuses on interpersonal skills needed to communicate effectively with parents through conferencing, notes/letters, and newsletters about curriculum topics, themes, classroom events and children's work.

MAP 424. Communicatn/Collaboratn. 3 sem. hrs.
Building on previous MAP courses, the course focuses on planning and conducting conferences to establish, communicate, and achieve the goals and essential characteristics of an educational program.

MAP 425. Communication/Collaboration. 3 sem. hrs.
Building on previous MAP courses, the course focuses on the use of social problem-solving skills: conflict resolution, anger diffusion, and crisis intervention.

MAP 433. Facilitating Learning. 1 sem. hr.
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 434, and MAP 435. It concentrates on the employment of community resources and on presentation skills.

MAP 434. Facilitating Learning. 2 sem. hrs.
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 433, and MAP 435. It concentrates on the integration and inclusion of exceptional children and children from diverse backgrounds in various classroom settings: planning for individual needs, modifying objectives and adapting curriculum materials, and personalizing instruction.

MAP 435. Facilitating Learning. 2 sem. hrs.
This course extends concepts of learning, classroom management, behavior modification, and individual behavior management. Emphasis is on using effective programs and interventions with children of diverse abilities to facilitate social and emotional growth and encourage appropriate behavior.

MAP 443. Enrichment Workshop Practicum. 6 sem. hrs.
This course concentrates on learning strategies and thinking skills, and how to integrate them in one's teaching throughout the instructional program. It explores how distinguishing the cognitive from the affective components of thinking skills can help pupils of all abilities to learn responsibility for the decision-making process and help them express their thoughts.

MAP 444. Field Experience Spe Interns. 6 sem. hrs.
This course begins as an apprenticeship with a mentoring teacher in a special education classroom. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting classroom instruction for pupils with mild learning and behavior disabilities.

MAP 445. Field Experience Spe Internsh. 6 sem. hrs.
This course begins as an apprenticeship with a mentoring teacher in an elementary general education classroom setting. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting the classroom instruction.

Music Education (MUE) Courses

MUE 107. Basic Skills In Music. 2 sem. hrs.
Basic music-reading skills developed through singing and playing of instruments. The course is designed for the prospective elementary school teacher and is a prerequisite for MUE 385. Students with previous musical training may elect to demonstrate equivalent skills through testing.

MUE 200. Intro to Music Education. 2 sem. hrs.
Techniques associated with teaching music in the public schools. Development of classroom management skills and reflection on the role of the music educator in contemporary classrooms.
Prerequisite(s): MUS 115
Prerequisite(s) with concurrency: EDU 200.

MUE 251. Intro To Winds, Str, Per. 3 sem. hrs.
Group instruction in and exposure to techniques for working with wind, string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 252. Teach String/Percu Instr. 2 sem. hrs.
Group instruction in and exposure to techniques of teaching and performing on string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 350. Evaluatn Teaching Learning Mus. 3 sem. hrs.
Survey of standardized instruments and evaluation techniques in music.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and BEP 305 Admission to Teacher Education Program.

MUE 351. Tchg Flute Single Reeds. 3 sem. hrs.
Instructional techniques and materials for teaching flute and single reeds. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 352. Teaching Double Reeds. 1 sem. hr.
Instructional techniques and materials for teaching oboe and bassoon. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 353. Teach Brass Instruments. 2 sem. hrs.
Designed to provide the instrumental music education major with skills necessary to teach beginning, intermediate, and advanced students of brass wind instruments. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 354. Teaching Percussion II. 1 sem. hr.
Instructional techniques and materials for teaching intermediate and advanced players. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 380. Vocal Methods. 2 sem. hrs.
Examination of vocal pedagogy, diction, and solo vocal literature appropriate for teaching students in a public-school setting. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: MUE 381.

MUE 381. Vocal Methods Lab. 1 sem. hr.
Examination of the vocal instrument and teaching strategies for working with young voices. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 385. Tchg Music Elementary Schools. 3 sem. hrs.
Music curriculum in elementary schools and methods and techniques of teaching music in various grades are covered.
Prerequisite(s): MUE 107.

MUE 387. Elem School Music Program. 3 sem. hrs.
Comprehensive coverage of the music curriculum in the elementary school, including current methodologies. Teaching techniques and materials are demonstrated and applied in field experiences. Offered spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): BEP 305 and MUE 389 Admission to Teacher Education Program.

MUE 389. Clinical Experience In Mue. 3 sem. hrs.
Campus- and field-based experiences in public-school music education at several levels. Microteaching and development of teaching techniques are included. Offered fall semester.
Prerequisite(s): MUS 117.

MUE 486. Marching Band Techniques. 2 sem. hrs.
Fundamentals of marching, maneuvering, and preparation and presentation of formations. Offered fall semester and in summer term during odd-numbered years.

MUE 497. Internship Music Educ. 3-18 sem. hrs.
Full time supervised teaching experience in the area of specialization (instrumental or vocal).
Prerequisite(s): MUA 499 and MUA 299 and MUS 447 or MUS 448 Admission to Teacher Education Program.

Reading Education (CRD) Courses

CRD 369. Fundmntl Readng Instruction. 3 sem. hrs.
Introduction to literacy development, instruction, and assessment for elementary school children. Foundational concepts of literacy instruction and best-practice are covered. A field component is required.

CRD 400. Teach Readg Diverse Learn K-12. 3 sem. hrs.
A foundation in the materials and methods for teaching of reading and language arts K-12, with emphasis on intervention programs, assessment, and instruction for individual and small groups of students. Intensive field experience is required.

CRD 412. Impr Read Second Schools. 3 sem. hrs.
Study of methods and strategies for teaching reading at the secondary and junior-college levels. Methods of teaching word attack and comprehension skills are emphasized. Diagnostic techniques, study skills, and teaching reading in the content areas are also covered. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program.

Secondary Curriculum, Teaching and Learning (CSE) Courses

CSE 390. Instructn Accomd Sec Sch. 3 sem. hrs.
The course focuses on evaluating teaching and learning behaviors and on general teaching competencies.
Prerequisite(s) with concurrency: CSE 493 and BEF 360 and BEP 360.

CSE 401. Tech for Teaching Sec. Math. 3 sem. hrs.
Examines and explores various existing and emerging classroom technologies for specifically teaching secondary mathematics topics including but not limited to spreadsheets, hand-held & computer graphing technologies, dynamic geometry software, computer algebra systems and data collection devices. Fall only.
Prerequisite(s): MATH 227 and ST 260 CS 102 OR CSE 390.

CSE 406. Curriculm Secondary Math. 3 sem. hrs.
Future secondary mathematics teachers examine advanced concepts, structures, and procedures that comprise secondary mathematics. This course focuses on current issues and trends in the curriculum, teaching, and learning of secondary mathematics with emphasis on the investigation and implementation of current reform efforts. Offered spring semester only.
Prerequisite(s): CSE 401 Admission to Teacher Education Program.

CSE 455. Adolescent Literature. 3 sem. hrs.
Study of contemporary literature for young adults, with emphasis on high- interest and high-quality literature from diverse authors.

CSE 469. Pedagogical Grammar. 3 sem. hrs.
This is a practical course intended to enhance the student's understanding of the structure of the English language. The course is designed to encourage a thorough study of grammar and its role in the English language arts curriculum, to explore the psycholinguistic nature of language processes, and to develop methods of instruction for the classroom.

CSE 470. Teaching Writing 6-12. 3 sem. hrs.
This course is designed to prepare prospective English teachers to successfully teach and evaluate writing in grades 6-12.

CSE 476. Improving Science Teaching. 3 sem. hrs.
Examination and evaluation of appropriate technologies for the secondary science curriculum. Technologies will include CD-ROM and Internet-based simulations and databases, Web pages and other Internet resources, multimedia presentations, and calculator-based laboratories.
Prerequisite(s): CS 102 OR CSE 390.

CSE 479. Teach Second Sch English. 3 sem. hrs.
Methods and media essential to effective instruction of English in the secondary school.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: BER 450 and CRD 412 and CSE 489.

CSE 480. Teach Sec Sch Forgn Lang. 3 sem. hrs.
Theories, methods, techniques, and essential media for teaching foreign languages effectively in the secondary school. Offered fall semester only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CSE 483. Teach Second School Math. 3 sem. hrs.
The course presents primarily methods and instructional strategies of teaching mathematics, but necessarily includes a study of selected topics in mathematics. Offered fall semester only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CSE 486. Teach Second Sch Science. 3 sem. hrs.
Instructional strategies and media essential to effective learning of science in the secondary school. Content includes objectives, inquiry teaching, analysis of curricula, assessment, teaching for diversity, science-thinking skills, unit planning, and laboratory management. Offered only fall semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CSE 487. Teach Second Soc Science. 3 sem. hrs.
This course will use a reflective teaching model for examining the history, issues, and contemporary practices related to teaching middle- and high- school social science.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: BER 450 and CRD 412 and CSE 489.

CSE 489. Clinicl Exper Second School. 3 sem. hrs.
Observation and participation experiences in secondary schools. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: Appropriate methods course.

CSE 493. Diversity Block Seminar. 1-3 sem. hr.
A reflective teaching model will be used to explore differences in race, class, gender, and academic achievement as they affect classroom interaction and academic success.
Prerequisite(s) with concurrency: CSE 390 and BEF 360 or BEP 360.

CSE 497. Sec School Teaching. 3-12 sem. hrs.
Observation and teaching of the major subject in the secondary school.
Prerequisite(s): Admission to Teacher Education Program.

Special Education and Multiple Abilities (SPE) Courses

SPE 100. Except Lives in Society. 3 sem. hrs.
Introduction and overview for non-education majors regarding characteristics of diversity, exceptionalities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included. Through web-based readings/critiques, class lecture, and service learning opportunities, participants in this course will explore diverse populations from within the context of characteristics, issues and trends, cultural differences, and research. Offered fall and spring semesters.

SPE 272. Intro to Pre-K Education. 3 sem. hrs.
This course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K initiative. An overview of development, guidance, and curriculum planning will be included. Laboratory/practicum participation in a Pre-K classroom will be required.

SPE 300. Survey Spe Accomd Stratg. 3 sem. hrs.
Characteristics of all exceptionalities, and educational and behavioral adaptations for exceptional children in the general education classroom. A practicum experience that acquaints students with exceptionalities is included. Offered each semester.

SPE 302. Educatl Diagn Measurmt. 3 sem. hrs.
Introduction to group and individual assessments used for evaluating student learning and for planning instruction. Emphasis is on appropriate test selection and use of results. Writing proficiency within this discipline is required for a passing grade in this course.

SPE 304. Instructional Strategies In Sp. 3 sem. hrs.
Addresses curriculum planning and selection of instructional tasks, with emphasis on making decisions that facilitate learning in students with disabilities.

SPE 326. Instruct Sign Language. 3 sem. hrs.
Introduction to the culture of the deaf community and to the sign language continuum, providing a knowledge base from which students can communicate with the deaf and hard of hearing in the school setting.

SPE 374. Parenting Children. 3 sem. hrs.
Explores the role of families in the educational process and how professionals work with families. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semester.

SPE 382. Teaching Thinking Skills. 3 sem. hrs.
An overview of the dimensions of thinking skills with a focus on practical instructional techniques for special and regular education programs. Includes detailed training in models for teaching thinking skills that result in improved student and teacher thinking.

SPE 414. Collaborative Consultatn. 3 sem. hrs.
Examination of the ways in which individuals interact with educational systems, communities at large, and each other to bring about appropriate educational services for students with special educational needs. Included are fundamentals of group process, human behavior and interaction, and motivation, as well as skills and knowledge necessary for successful collaboration and consultation with others concerned with education of students who present exceptional needs.

SPE 416. Instruct Strategy Severe Popul. 3 sem. hrs.
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in education settings for children with severe disabilities. Emphasis is placed on educational programming, subject matter, professional responsibilities of teachers and related service personnel, curriculum development, physical management of children with severe disabilities, adaptation of materials and equipment, and modification of programs in varied settings (clinical, homebound, hospital, public schools).

SPE 435. Behavior Management. 3 sem. hrs.
The course addresses the development of models for managing behavior, to help teachers prevent or deal with emotional conflict in the classroom.

SPE 471. Dev Persp Young Child W/ Disab. 3 sem. hrs.
A course introducing the field of early childhood special education, including its rationale and legal issues. Offered fall semester.

SPE 476. Assessment Of Young Children. 3 sem. hrs.
Basic principles and practices involved in the assessment and evaluation of young children. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 477. Differentiated Acad. Instruct. 3 sem. hrs.
This course examines differentiated instructional methods using cross-content instructional examples. The course provides opportunities to develop knowledge and skills in lesson and unit planning, pedagogy, kinds of materials and evaluation of learning.
Prerequisite(s): SPE 304 and SPE 471 or SPE 571; and SPE 476 or SPE 576 Admission to Teacher Education Program
Prerequisite(s) with concurrency: SPE 471.

SPE 478. Meth Teach Yng Child W/ Disb. 3 sem. hrs.
Curriculum methodology materials and management technology for young children with disabilities.

SPE 479. Intern In Early Childhood Spe. 3-12 sem. hrs.
Fourteen week split internship providing supervised teaching experience in classrooms for young children. Offered spring and fall only. Application for internship must be made the semester prior to internship (excluding summer term) through Office of Educational Field Experience.
Prerequisite(s): SPE 478 and SPE 476 and SPE 471 and SPE 374 Admission to Teacher Education Program.

SPE 491. Educ Method Elem Mlbd. 3 sem. hrs.
Designed to develop skill in the use of curriculum, materials, and management strategies with elementary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 492. Educ Methods Second Mlbd. 3 sem. hrs.
Designed to develop skill in the use of curriculum, materials, and management strategies with secondary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 493. Intro Severe/Profound Disabili. 3 sem. hrs.
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in educational settings for child/youth with severe/profound disabilities. Practicum required.

SPE 499. Internship In Spe (Spco). 4.5-7.5 sem. hrs.
Fourteen-week split internship providing supervised teaching experience in elementary and secondary classrooms. Student teaching is only offered during the spring semester, unless written permission is secured from the department head. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program.

Department of Curriculum and Instruction

Professor Vivian Wright, Interim Department Head
Office: 201C Graves Hall
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(205) 348-1401

The Department of Curriculum and Instruction is comprised of programs in elementary education and secondary curriculum, teaching and learning.

Elementary Education Programs (K-6) (CEE)

Associate Professor Diane Carver Sekeres, Program Coordinator
Office: 208-B Graves Hall

This department requires the completion of at least 120 semester hours for graduation as specified below and which leads to the bachelor of science in education degree and the Alabama Class B (K-6) Professional Certificate. MUE 385 Tchg Music Elementary Schools requires as a prerequisite either MUE 107 Basic Skills In Music (2 hours) or demonstrated equivalent skills by passing an exemption examination offered throughout the year by the Music Education Department, 261 Moody Music Bldg, (205) 348-6054. The undergraduate catalog is published annually. Program advising sheets are updated more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should obtain the most recent advising sheets, available from their academic advisers and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 201 Graves Hall.

Teacher Education Program Admission Requirements for Elementary Education Majors

Since the fall semester of 1996, there has been a competitive admission process for entering the elementary education professional semesters. There is a limitation on enrollment for these semesters. Meeting the minimum criteria for the teacher education program (TEP) does not guarantee admission to these professional semesters. See program for admission procedures.

The student must complete the TEP application form, available from personnel in 104 Carmichael Hall. The minimum requirements are listed at the beginning of the College of Education section.

NOTE: The faculty reserves the right to make exceptions to the listed criteria based on individual circumstances. However, minimum Alabama State Department of Education requirements found elsewhere in this catalog must still be met.

Additional requirements include:

- each student must earn a grade of C or higher in all University core courses
- each student must successfully complete MUE 107 Basic Skills In Music or a proficiency examination
- each student must have a C or higher in every professional studies and teaching field course; a student must successfully petition the department to retake any education course in which he or she earned less than a C
- each student must select additional mathematics courses from the general studies list for a total of 12 semester hours of MA-designated courses

Recommended Courses:		
MATH 208	Number And Operations	
MATH 209	Geometry & Measurement	
MATH 210	Data Analysis Probabil Stats	
Unacceptable Courses:		
MATH 100	Intermediate Algebra	
BER 345	Educational Statistics	

- each student must select an additional course from the general studies natural science requirements for a total of at least 12 semester hours; preferred are four semester hours in biological science and eight semester hours in physical/ interdisciplinary science.

General Studies (60 Hours)

Professional Studies and Teaching Field

The University of Alabama GPA — and, if transfer work, the overall GPA — must be at least 2.75 in the professional studies and teaching field courses. A student may not enroll in more than five professional studies courses before he or she has received unconditional admission to the TEP. All required English coursework must have been completed before Professional Semester 1.

Professional Semester 1

		Hours
Professional Studies		
BEF 362	School, Culture, and Society *	3
BEP 305	Educational Psychology *	3
CEE 320	Survey Elementary Eductn **	3
SPE 300	Survey Spe Accomd Stratg *	3
Teaching Field		
CRD 369	Fundmntl Readng Instruction **	3
MUE 385	Tchg Music Elementary Schools **	3
Total Hours		18

*BEF 362 School, Culture, and Society, BEP 305 Educational Psychology and SPE 300 Survey Spe Accomd Stratg may be taken prior to Professional Semester I.
**Corequisites

NOTE: MUE 107 Basic Skills In Music is a prerequisite to MUE 385 Tchg Music Elementary Schools; however, students with previous musical training may elect to demonstrate equivalent skills through testing. Arrangements for testing can be made by contacting the Music Education office at (205) 348-6054.

NOTE: After successful completion of CEE 320 Survey Elementary Eductn and posting of grades, students should be ready to formally apply to the Teacher Education Program. Applications are available from Student Services located at 104 Carmichael Hall. Check TEP requirements above for additional information.

Professional Semester 2*

		Hours
Professional Studies (students must register for the following 16 hours simultaneously)		
CEE 401	Managing Effective Classrooms	1
Teaching Field		
CEE 365	Literature For Children	3
CEE 370	Teaching Reading Elem School	3
CEE 380	Teaching Elem Math	3
CEE 495	Practicum	3
KIN 364	P E Elem Sch Elem Ed Maj	3
Total Hours		16

*All required mathematics coursework must be completed prior to Professional Semester 2.

Professional Semester 3*

		Hours
Professional Studies (students must register for the following 16 hours simultaneously)		
BER 450	Assess Of Classrm Learng	3
CEE 401	Managing Effective Classrooms	1
Teaching Field		
CEE 304	Teach Elem School Scienc	3
CEE 366	Teaching Social Sciences	3
CEE 478	Teach Lang Arts In Elem School	3
CEE 496	Senior Practicum	3
Total Hours		16

*All required science and social science/humanities coursework must be completed prior to Professional Semester 3.

Professional Semester 4

		Hours
Professional Studies		
CEE 401	Managing Effective Classrooms	1
Internship:		11
CEE 497	Internship Elem School *	
Total Hours		12

*Elementary education students are required to complete two internship placements; therefore, students should enroll in equal hours of two sections of CEE 497 Internship Elem School. An adviser should be consulted for appropriate internship hours.

Early Childhood (PreK–3rd Grade) Certification

By completing additional requirements, a student fulfilling the requirements for elementary school (K-6) certification may be eligible to obtain early childhood certification. Admission to this program is highly competitive. Additional requirements of the early childhood certification program may be secured in 104 Carmichael Hall.

Middle School (4-8) Endorsement on Elementary (K-6) Certificate

By completing additional requirements, a student fulfilling the requirements for elementary school (K-6) certification may also obtain middle school certification. The additional requirements of the middle school endorsement program may be secured in 104 Carmichael Hall.

Secondary Curriculum, Teaching and Learning (6-12) (CSE)

Associate Professor Karen Spector, Program Coordinator
Office: 212A Graves

The programs in high school/secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

NOTE: Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and AECTP (basic skills test). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

The undergraduate catalog is published annually. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheets, available from academic advisors and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 204 Graves Hall.

General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies (31-34 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five identified professional studies courses prior to unconditional admission to TEP.

		Hours
BEF/BEP 360	Social Psychol Foundtns Educ	3
BER 450	Assess Of Classrm Learng	3
CRD 412	Impr Read Second Schools	3
CSE 390	Instructn Accomd Sec Sch	3
CSE 493	Diversity Block Seminar	1
CSE 489	Clinicl Exper Second School	3
CSE 497	Sec School Teaching	9-12
SPE 300	Survey Spe Accomd Stratg	3
*Discipline-specific CSE methods course		3
CSE 479	Teach Second Sch English	
CSE 480	Teach Sec Sch Forgn Lang	
CSE 483	Teach Second School Math	
CSE 486	Teach Second Sch Science	
CSE 487	Teach Second Soc Science	
Total Hours		31-34

*This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinicl Exper Second School, CRD 412 Impr Read Second Schools, BER 450 Assess Of Classrm Learng and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinicl Exper Second School and methods course.

Requirements for the Secondary Education (6-12) Teaching Fields

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

Teaching Field – English Language Arts (Comprehensive, 6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses (see general studies requirements listed earlier in this section for more information):

Content Major: English		Hours
COM 101	Principles Human Communication	3
COM 123	Public Speaking	3
CSE 455	Adolescent Literature	3
CSE 469	Pedagogical Grammar	3
CSE 470	Teaching Writing 6-12	3
EN 205	English Literature I	3
EN 210	American Literature II	3
EN 300	Intro To English Studies	3
EN 321	Linguis Approach English Gramr	3
EN 333	Shakespeare	3
EN 411	Adv Stdy Comptv Multi-Cutl Lit	3
One 300-level EN elective		3
Two 400-level EN electives		6
JN 436 or	Teaching Of Journalism	3
JN 200	Foundations of Journalism	
TH 113 or	Voice And Diction	3
TH 114	Intro To The Theatre	
TH 245 or	Tch Theatre: Performance	3
TH 246	Tch Theatre: Play Prodcn	
Select two from the following:		6
EN 206	English Literature II	
EN 207	World Literature I	
EN 208	World Literature II	
EN 209	American Literature	
EN 249	African American Literature *	
Select one of the following:		3
EN 340	American Literature To 1900	
EN 341	American Poetry To 1900	
EN 342	American Fiction To 1900	
EN 343	British Fiction To 1900	
EN 347	English Lit During Enlightenmt	
EN 348	Romantic Literature	
EN 349	Victorian Literature	
Foreign language requirement		8
Total Hours		68

*Does not meet the Literature sequence of UA Core Curriculum.

Teaching Field – French

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

Content Major: French		Hours
FR 201	Intermediate French	3
FR 202	Intermediate French	3
FR 321	Voices In French	3
FR 323	Text, Image, And Word	3
FR 331 or	French Civilization	3
FR 431	Contemp French Civiliztn	
FR 421	Pronunciation & Phonetics	3
Select two courses from the following:		6
FR 361	Intro Romance Linguistic (Same as IT 361 and SP 361)	
FR 461	French Linguistics	
FR 470	Undergrad Sem In French	
FR 480	Special Topics	
Select two courses from the following:		6
FR 341	Survey Fr Literature I	
FR 351	Survey Fr Literature II	
FR 470	Undergrad Sem In French	

FR 480	Special Topics	
Advisor-approved FR electives		6
Total Hours		36

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement.

To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

CEE 320	Survey Elementary Eductn	3
CEE 365	Literature For Children	3
HD 101	Life Span Human Development	3

Additionally, the internship should be Intern Foreign Language Education CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Teaching Field – German

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

Content Major: German

		Hours
GN 101 & GN 102	Elementary German I and Elementary German II	8
OR		
GN 103	Accelerated Elementary German *	
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN 361 & GN 362	Interm Convers Comp I and Interm Convers Comp II	6
GN 371 & GN 372	German Culture and Civilization Thru 1832 and Germn Cult Civ 1832-Present	6
GN 403	Undergraduate Seminar	3
Approved 300-level or higher GN elective		6
Advisor-approved elective		3
NOTE: A minimum of two advisor-approved literature courses:		
(Recommended courses are below.) **		
GN 264	German Literature Translatn I	
GN 265	German Lit In Translatn II	
GN 403	Undergraduate Seminar	
GN 404	Undergraduate Seminar	
Total Hours		38

*See German adviser regarding this option.
**Recommended courses, or a topic-appropriate course.

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement. To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

CEE 320	Survey Elementary Eductn	3
CEE 365	Literature For Children	3
HD 101	Life Span Human Development	3

Additionally, the internship should be CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels. See general studies requirements listed earlier in this section.

Teaching Field – Latin

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

Content Major: Latin

		Hours
CL 222	Greek Roman Mythology	3
CL 350	Roman Religion (or equivalent 300-level or higher culture elective)	3
CL 380	Special Topics (or equivalent literature elective)	3
CL 386	History Of Rome	3
LA 101	Elementary Latin I	3
LA 102	Elementary Latin II	3
LA 201	Intermed Latin Read I	3
LA 202	Intermed Latin Read II	3
LA 301	Advanced Reading in a Roman Author or Genre	3
LA 302	Advanced Reading in a Roman Author or Genre	3
LA 490	Readings In Latin Literature	3
Advisor-approved electives (300-level or higher)		3
Total Hours		36

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement. To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

CEE 320	Survey Elementary Eductn	3
CEE 365	Literature For Children	3
HD 101	Life Span Human Development	3

Additionally, the internship should be CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels. See general studies requirements listed earlier in this section.

Teaching Field – Mathematics (Comprehensive, 6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.5 in these courses:

Content Major: Mathematics

		Hours
CS 150	Programming I	2
CSE 401	Tech for Teaching Sec. Math	3
CSE 406	Curriculm Secondary Math *	3
MATH 125	Calculus I	4
MATH 126	Calculus II	4
MATH 227	Calculus III	4
MATH 237	Introduction to Linear Algebra	3
MATH 238	Appld Diff Equations I	3
MATH 301	Discrete Mathematics	3
MATH 355	Theory Of Probability	3
MATH 403	Adv Math Connections & Devlpmn	3
MATH 404	Topics Math Secondary Teachers	1
MATH 405	Geometry For Teachers	3
MATH 470	Prin Modern Algebra I	3
MATH 486	Introduction to Real Analysis I	3
ST 260	Statistical Data Analysis	3
Total Hours		48

*Admission to TEP is required

A student's proficiency in the content of MATH 112 Precalculus Algebra and MATH 115 Precalc Algebra & Trig will be tested. The scores achieved determine whether a student must complete one or more of these courses as prerequisites for the following coursework in the major. Credit for courses numbered below MATH 125 Calculus I may be applied to the degree requirements only as elective credit. See general studies requirements listed earlier in this section.

Teaching Field – General Science (Comprehensive, 6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.5 in these courses (see general studies requirements listed earlier in this section for more information):

Content Major: Biology

		Hours
Biology		
BSC 114	Principles Of Biology I	3
BSC 115	Laboratory Biology I	1
BSC 116	Principles Biology II	3
BSC 117	Biology II Laboratory	1
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
BSC 300	Cell Biology	3
BSC 315	Genetics	3
BSC 385	General Ecology	3
300-level or higher Advisor-approved BSC elective(s)		6-8

Select one of the following courses:		3-4
BSC 424	Human Physiology	
BSC 436	Immunology Laboratory	
BSC 439	Bch/Molecular Biology Lab	
BSC 442	Integrated Genomics	
Select one of the following laboratory electives:		2-5
BSC 310	Microbiology	
BSC 313	Gen Bacteriology Lab	
BSC 373	Vertebrate Zoology	
BSC 376	Invertebrate Zoology	
BSC 386	General Ecology Lab	
BSC 390	Honors Thesis Research	
BSC 396	Resident Study	
BSC 400	Vertebrate Funct Morphol	
BSC 414	Dendrology	
BSC 425	Human Physiology Lab	
BSC 428	Biology Of Fishes	
BSC 432	Pathogenic Mibrobiol Lab	
BSC 436	Immunology Laboratory	
BSC 439	Bch/Molecular Biology Lab	
BSC 442	Integrated Genomics	
BSC 464	Biology Of Algae	
BSC 472	Mycology	
BSC 475	General Entomology	
BSC 476	Aquatic Insects	
BSC 490	Stream Ecology	
CSE 476	Improving Science Teaching	3
MATH 125	Calculus I	4
Chemistry		
CH 101	General Chemistry	4
CH 102	General Chemistry	4
CH 231	Elem Organic Chemistry I	3
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
Physics		
PH 101	General Physics I	4
PH 102	General Physics II	4
Integrated Science		
AEM 120	Aerospace Science For Educators	4
GEO 101	The Dynamic Earth	4
Total Hours		75-81

Teaching Field – General Science (Comprehensive, 6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.5 in these courses (see general studies requirements listed earlier in this section for more information):

Content Major: Chemistry

		Hours
Chemistry		
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 223	Quantitative Analysis	4
CH 231	Elem Organic Chemistry I	3
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
CH 338	Elem Organic Chem Lab II	2
CH 340	Elem Physical Chem	3
CH 343	Elem Phy Chem Lab	1
CH 413	Inorganic Chemistry	4
CH 461	Biochemistry I	3
CH 462	Biochemistry II	3
CH 463	Biochem-Clin/Foren/Chem	3
CSE 476	Improving Science Teaching	3
MATH 125	Calculus I	4
MATH 126	Calculus II	4
Biology		
BSC 114	Principles Of Biology I	3
BSC 115	Laboratory Biology I	1
BSC 116	Principles Biology II	3
BSC 117	Biology II Laboratory	1
Physics		
PH 101 or	General Physics I	4
PH 105	General Physics W/Calc I	
PH 102 or	General Physics II	4
PH 106	Generl Physics W/Calc II	
PH 253	Intro Modern Physics	3
PH 255	Modern Physics Lab	1
Select one of the following courses:		3-4
PH 354	Intermediate Modern Physics	
PH 405	Physics For Science Teachers	
PH 411	Biophysics	
Integrated Science		
AEM 120	Aerospace Science For Educators	4
GEO 101	The Dynamic Earth	4
Total Hours		81-82

Teaching Field – General Science (Comprehensive, 6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.5 in these courses (see general studies requirements listed earlier in this section for more information):

Content Major: Physics

		Hours
Physics		
PH 101 or	General Physics I	4
PH 105	General Physics W/Calc I	
PH 102 or	General Physics II	4
PH 106	Generl Physics W/Calc II	
PH 253	Intro Modern Physics	3
PH 255	Modern Physics Lab	1
PH 301 or	Mechanics I	3
PH 302	Intermediate Mechanics	
PH 331	Elect & Magnetism I	3
PH 354	Intermediate Modern Physics	3
PH 405	Physics For Science Teachers	3
PH 491	Advanced Laboratory	3
Advisor-approved PH electives, 300-level or higher		6
CSE 476	Improving Science Teaching	3
MATH 125 or	Calculus I	4
MATH 145	Honors Calculus I	
MATH 126 or	Calculus II	4
MATH 146	Honors Calculus II	
MATH 227 or	Calculus III	4
MATH 247	Honors Calculus III	
MATH 238	Appld Diff Equations I	3
Biology		
BSC 114	Principles Of Biology I	3
BSC 115	Laboratory Biology I	1
BSC 116	Principles Biology II	3
BSC 117	Biology II Laboratory	1
Chemistry		
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
CH 231	Elem Organic Chemistry I	3
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
Integrated Science		

AEM 120	Aerospace Science For Educators	4
GEO 101	The Dynamic Earth	4
Total Hours		83

Teaching Field – Social Science (Comprehensive, 6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses (see general studies requirements listed earlier in this section for more information):

Content Major: History		Hours
From general studies students must select:		
EC 110	Principles of Microeconomics	3
EC 111	Principles of Macroeconomics	3
GY 110 or	Prin Human Geography	3
GY 105	World Regional Geography	
GY 300+ (advisor-approved elective)		3
HY 101	Western Civ To 1648	3
HY 102	Western Civ Since 1648	3
HY 110	Comparative World Civ	3
HY 203	Amer Civilizatn To 1865	3
HY 204	Amer Civilizatn Sc 1865	3
One HY 300-level or higher U.S. elective		3
One HY 300-level or higher European or British elective		3
One HY 300-level or higher Asian or Latin American elective		3
Four HY 300-level or higher electives		12
PSC 101	Intro American Politics	3
PSC 203	Comparative Politics	3
PSC advisor-approved elective		3
PY 101	Intro To Psychology	3
SOC 101	Intro To Sociology	3
Total Hours		63

Teaching Field – Spanish (6-12)

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

Content Major: Spanish		Hours
SP 201 & SP 202	Intermediate Spanish and Intermediate Spanish	6
SP 353	Spanish Conversation	3
SP 356	Adv Grammar And Compos	3
SP 361	Intro Romance Linguistic (preferred, or SP 300-level or higher elective)	3
SP 364 or	Spanish Civilization	3
SP 366	Spanish-American Civ	
Choose two of the following:		6
SP 371 or	Survey Of Spanish Lit	
SP 375	Masterpc Sp-Amer Lit I	
and		
SP 372 or	Survey Of Spanish Lit	
SP 376	Masterpc Sp-Amer Lit II	
SP 484	Phonetics And Pronunciation	3
SP 491	Cervantes	3
SP 400-level elective		3
Two Advisor-approved electives		6
Total Hours		39

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement. To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

CEE 320	Survey Elementary Eductn	3
CEE 365	Literature For Children	3
HD 101	Life Span Human Development	3

Additionally, the internship should be CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels. See general studies requirements listed earlier in this section.

Middle School (4-8) Endorsement on Secondary Certificate (6-12)

By completing several additional requirements, a student fulfilling the requirements for certification in a secondary school (6-12) teaching field may also obtain middle-school certification in the same field. Those who hold middle school certification may teach in their subject fields in grades 4-8; they are not eligible, however, to teach in self-contained elementary classrooms. The additional requirements of the middle school endorsement program may be secured in 104 Carmichael Hall.

Reading Education (CRD)

Reading education is required in the professional education component of all undergraduate teacher education/certification programs.

Faculty

Interim Department Head and Professor

Wright, Vivian

Professors

Goldston, M. Jenice

Stallworth, B. Joyce

Sunal, Cynthia C.

Sunal, Dennis

Wilson, Elizabeth K.

Associate professors

Coleman, Julianne

Mantero, Miguel

Nichols, Sharon Elizabeth

Sekeres, Diane C.

Shwery, Craig

Spector, Karen

Assistant professors

Henderson, Shannon

Holaway, Calli

Hubbard, Janie D.

Johnson, Latrise

Livers, Stefanie

Lovorn, Michael

Mundy, Charlotte

Payne, Rebecca

Summers, Robert

Weston, Tracy

Zelkowski, Jeremy

Clinical associate professor

Freeman, Lee

Clinical assistant professor

Fowler, Melisa

Department of Educational Leadership, Policy and Technology Studies

Professor Philo A. Hutcheson, Department Head
Office: 301-C Graves Hall

These programs do not offer certification in undergraduate teaching fields. They do, however, offer some undergraduate courses, many of which are required or are options for certification in the various undergraduate teaching fields.

Program in Computers and Applied Technology (CAT)

Professor Margaret Rice (Program Coordinator)
Office: 315-F Graves Hall

Courses provided by the Program in Computers and Applied Technology are commonly used to satisfy part of the general studies requirements for the College of Education baccalaureate degree. Undergraduates often use CAT 200 Computer Education Application and CAT 250 Computer Educ Curric Devel to meet the University's Core Curriculum requirement for foreign language/computer science.

Program in Social and Philosophical Foundations in Education (BEF)

Professor John Petrovic (Program Coordinator)
Office: 323-C Graves Hall

Foundations in education course offerings include basic support for undergraduate and graduate teacher education programs throughout the College of Education and for programs in other units of the College and the University. Students in a teacher education program are typically required to take at least one Foundations of Education course covering studies in philosophy, history and sociology of education.

Faculty

Department Head and Professor

Philo A. Hutcheson

Administrator in Residence

Levey, Joyce

Professors

Adams, Natalie

Arredondo-Rucinski, Daisy

Dagley, Dave

Erevelles, Nirmala

Johnson, Bob L.

Katsinas, Stephen G.

Major, Claire Howell

McKnight, Douglas

Petrovic, John E.

Tarter, John

Tomlinson, Stephen

Urban, Wayne J.

Associate professors

Atkinson, Becky

Benson, Angela

Bray, Nathaniel James

Hardy, David

Holley, Karri

Mitchell, Roxanne

Rice, Margaret L.

Assistant professors

Denham, Andre R.

Sun, Jingping

Clinical professor

King, Margaret Ingram

Clinical associate professors

Rice, Richard

Westbrook, Philip

Clinical assistant professors

Breaux, Arleene

Mendiola, Brenda

Molina, Danielle

Department of Educational Studies in Psychology, Research Methodology and Counseling

Professor Rick Houser, Department Head
Office: 306-C Carmichael Hall

These programs do not offer certification in undergraduate teaching fields. They do, however, offer some undergraduate courses, many of which are required or are options for certification in the various undergraduate teaching fields.

Program in Counselor Education (BCE)

Professor S. Allen Wilcoxon III, Program Coordinator
Office: 315 Graves Hall
The Program in Counselor Education assists undergraduate students in exploring counseling services that supplement elementary and secondary school academic programs. Undergraduates may examine the essential elements of school counseling and guidance either in preparation for employment in school settings or as a foundation for graduate study in counselor education.

Program in Educational Psychology (BEP)

Professor Steve Thoma, Program Coordinator
Office: 305-A Carmichael Hall
Undergraduate coursework provided by the Program in Educational Psychology supports College of Education undergraduate teacher education programs and other programs across the University. The coursework is designed to provide basic knowledge and competencies related to human learning and development. The Program in Educational Psychology offers several graduate degrees, as described in The University of Alabama graduate catalog.

Program in Educational Research (BER)

Professor Rick Houser, Program Coordinator
Office: 306-C Carmichael Hall
Courses provided by the Program in Educational Research support College of Education undergraduate teacher education programs and are designed to provide basic assessment competencies for future teachers.

Program in School Psychology (BSP)

Professor Patti Harrison, Program Coordinator
Office: 306 Carmichael Hall
The Program in School Psychology offers several graduate degrees, as described in The University of Alabama graduate catalog.

Faculty

Department Head and Professor

Rick Houser

Professors

Harrison, Patti L.

Iran-Nejad, Asghar

McLean, James E.

Satcher, Jamie F.

Schumacker, Randall

Thoma, Stephen I.

Wilcoxon, S. Allen

Associate professors

Burnham, Joy

Hooper, Lisa Marie

Kuntz, Aaron

Mills, Jamie D.

Robinson, Cecil D.

Assistant professors

Childers, Sara M.

Dantzler, John

Mugoya, George

Rush, Craig

Tomek, Sara Elizabeth

Clinical professor

Giesen, Judy

Clinical associate professors

Godfrey, Ann

Leggett, Mark

Clinical assistant professors

Smith, Annie

Surman, Stacy Hughey

Counselor Education (BCE) Courses

BCE 101. Freshman Compass: UA. 2 sem. hrs.
This course for first-year UA students provides an introduction to the nature of higher education and to the function, resources, and activities of The University of Alabama. This course is designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for degree attainment.

BCE 301. Introduction To Counseling. 3 sem. hrs.
A survey course featuring a comprehensive examination of the history, functions, and related issues for the practice of counseling in school, agency, and rehabilitation settings.

BCE 411. Guidance For Teachers. 3 sem. hrs.
The sociological, psychological, and philosophical bases for guidance in schools are presented. The course is offered only through the Office of Independent Study in the College of Continuing Studies, and is appropriate for both elementary and secondary teachers. Students majoring in guidance may not receive credit for this course.

Educational Psychology (BEP) Courses

BEP 110. Intro Learning Strateg Skills. 3 sem. hrs.
Provides students with a theoretical and practical understanding of the importance and use of specific learning strategies. This course will also engage students in reflective decision making and critical evaluation of their learning process.

BEP 305. Educational Psychology. 3 sem. hrs.
Covers the psychological principles basic to an understanding of the learner, the learning process, and the learning situation.
Prerequisite(s): PY 101 or HD 101 or PY 105.

BEP 360. Social Psychol Foundtns Educ. 3 sem. hrs.
An examination of the social, psychological, philosophical, and historical foundations of education in a modern democratic society. Critical attention is paid to contrasting theories of human nature, the learner and the learning process that, when combined with judgments about the purpose and conduct of life, have shaped pedagogy.
Prerequisite(s): PY 101 or HD 101.

BEP 410. Academic Mentoring. 1-6 sem. hr.
Introduction to academic mentoring is a service learning and leadership course. Students mentor K-12 school students in academic subjects. Class readings and discussions support the mentoring relationship by focusing on learning, motivation, metacognition, listening, personality, and the social contexts of schooling.

Educational Research (BER) Courses

BER 345. Educational Statistics. 3 sem. hrs.
Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

BER 450. Assess Of Classrm Learng. 3 sem. hrs.
Survey of teacher-made and standardized instruments for understanding students' achievement and evaluating teaching. Field practicum in the schools is required.

Department of Kinesiology

Professor Matthew Curtner-Smith, Department Head
Office: Moore Hall
In addition to the major in physical education leading to Alabama teacher certification, exercise and sport science is another possible major in kinesiology.

Physical Education, P–12 (KIN)

Associate Professor Oleg Sinelnikov
Office: 1009 Moore Hall

Assistant Professor Margaret Stran
Office: 1023 Moore Hall

Clinical Instructor Elizabeth Woodruff
Office: 2006 Moore Hall

This program requires the completion of hours as specified and leads to the Bachelor of Science in Education degree and the Alabama Class B (P–12) Professional Certificate. Students who have completed all 100- and 200-level requirements, have a UA GPA — and, if transfer work, a cumulative GPA — of at least 2.5, and have completed BSC 215 Human Anatomy & Physiology I or BSC 216 Human Anatomy & Physiology II, may apply to the physical education teacher education (PETE) methods cohort fall semester of the junior year. Additionally, students must have a passing score on all three areas (reading, writing and math) on the basic skills assessment of the Alabama Educator Certification Testing Program (AECTP). Admission to the PETE methods cohort is competitive. Meeting minimum requirements does not guarantee admission. Rather, students who meet stated criteria are guaranteed consideration for admission to the teacher education program (TEP). An individual may request from his or her adviser information concerning summative data on the most recent previous admissions.

All students must begin the PETE methods cohort in the fall semester. Admission to the PETE methods cohort enables students to take the following courses:

First PETE Fall Term		Hours
KIN 305	Dance & Gymnastics	2
KIN 350	Secondary Curriculum	3
KIN 351	Secondary Clinical Experience	3
KIN 362	Motor Development	3
KIN 464	Admin Phys Educ & Sport	3
Total Hours		14

First PETE Spring Term		Hours
KIN 300	Intro to Kinesiology	3
KIN 306	Analysis Teaching Movement I	3
KIN 307	Teach Trk & Fld/Net Game	2
KIN 310	Teaching Swimming	2
KIN 360	Subj Matter Elem Physical Educ	3
KIN 361	Elem Phys Ed Curr Phil Theory	3
Total Hours		16

Second PETE Fall Term		Hours
KIN 311	Tch Hlth Related Fitness	1
KIN 365	Applied Biomechanics	3
KIN 366	Evaluation and Measurement	3
KIN 468	Adapted Physical Education	3
KIN 487	Physical Educ Teach Pract	3
KIN 492	Physiology of Exercise	3
Total Hours		16

Second PETE Spring Term		Hours
KIN 497	Internship Phys Education	3-12
Total Hours		3-12

Students will apply to TEP while they are enrolled in KIN 350 Secondary Curriculum, fall term. They must meet TEP admission requirements, have a 2.5 GPA (UA and cumulative) in areas I–V and all coursework, and have completed an application. Applications for TEP are available in 104 Carmichael Hall.

The undergraduate catalog is published annually. DegreeWorks is updated more frequently and is likely to provide the most up-to-date information on degree and other requirements. In addition, students should obtain the most recent advising sheets available from academic advisers in 104 Carmichael Hall.

General Studies: 54 hours

Courses that are common to the teaching field and the general studies component may be applied to both. See general studies requirements, listed earlier. The following exceptions apply:

- Area II: Courses should be selected to meet teaching field or prerequisite requirements.

- Area III: BSC 109 Intro Biology Non Maj II or BSC 114 Principles Of Biology I/BSC 115 Laboratory Biology I should be selected to meet prerequisite requirements.
- Area IV: Courses should be selected to meet teaching field or prerequisite requirements.
- Area V: In addition to those courses listed in General Requirements, BSC 215 Human Anatomy & Physiology I or BSC 216 Human Anatomy & Physiology II and ATR 272 First Aid, Safety & CPR should be selected from remaining hours.

Physical Education Teaching Field: 43 hours

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.5 in these courses.

		Hours
KIN 199	Ecol Appr Hlth & Fitness	3
KIN 300	Intro to Kinesiology	3
KIN 305	Dance & Gymnastics	2
KIN 306	Analysis Teaching Movement I	3
KIN 307	Teach Trk & Fld/Net Game	2
KIN 310	Teaching Swimming	2
KIN 311	Tch Hlth Related Fitness	1
KIN 351	Secondary Clinical Experience	3
KIN 360	Subj Matter Elem Physical Educ	3
KIN 361	Elem Phys Ed Curr Phil Theory	3
KIN 362	Motor Development	3
KIN 365	Applied Biomechanics	3
KIN 464	Admin Phys Educ & Sport	3
KIN 468	Adapted Physical Education	3
KIN 487	Physical Educ Teach Pract	3
KIN 492	Physiology of Exercise	3
Total Hours		43

*KIN 351 Secondary Clinical Experience must be taken concurrently with KIN 350 Secondary Curriculum.
**KIN 360 Subj Matter Elem Physical Educ must be taken concurrently with KIN 361 Elem Phys Ed Curr Phil Theory.

Professional Studies

Students must earn grades of C or higher in each of the following professional studies courses. No more than five professional studies courses may be taken prior to admission to TEP (see adviser for appropriate course sequence). The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.5 in these courses:

		Hours
BEF 362	School, Culture, and Society	3
BEP 305	Educational Psychology	3
KIN 350	Secondary Curriculum	3
KIN 366	Evaluation and Measurement	3
KIN 497	Internship Phys Education	3-12
SPE 300	Survey Spe Accomd Stratg	3
Total Hours		18-27

*KIN 350 Secondary Curriculum must be taken concurrently with KIN 351 Secondary Clinical Experience.

Exercise and Sport Science, Non-certification (HPES)

Professor Mark Richardson
Office: 1007 Moore Hall

Assistant Professor Jonathan Wingo
Office: 2008 Moore Hall

Assistant Professor Gary Hodges
Office: 2007 Moore Hall

Clinical Instructor Colleen Geary
Office: 2009 Moore Hall

This program offered by the Department of Kinesiology requires the completion of 120 semester hours as specified below and leads to the bachelor of science in education degree. The program does not lead to professional certification as a teacher. A prospective exercise and sport science student must (a) complete 45 hours of applicable courses toward the degree, and (b) have at least a 2.0 GPA before taking upper-division (300-level or above) courses in the program of study.

General Studies: 50 hours

See general studies requirements listed earlier in this section. The following exceptions apply:

- Area II: Student may substitute a different Area II course for the public-speaking requirement.
- Area III: BSC 109 Intro Biology Non Maj II should be taken to meet prerequisite requirements. For students selecting the pre-professional concentration, BSC 114 Principles Of Biology I and BSC 115 Laboratory Biology I should be taken instead of BSC 109 Intro Biology Non Maj II. Students selecting the pre-professional concentration should complete MATH 112 Precalculus Algebra to meet prerequisite requirements.
- Area IV: Students selecting the business concentration are encouraged to complete EC 110 Principles of Microeconomics in meeting University core requirements. Students selecting the pre-professional concentration should complete PY 101 Intro To Psychology to meet prerequisite requirements.

Kinesiological Core

All students in the major must complete the kinesiological core:

		Hours
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
ATR 272	First Aid, Safety & CPR	2
KIN 199	Ecol Appr Hlth & Fitness	3
KIN 300	Intro to Kinesiology	3
KIN 362	Motor Development	3
KIN 365	Applied Biomechanics	3
KIN 366	Evaluation and Measurement	3
KIN 464	Admin Phys Educ & Sport	3
KIN 468	Adapted Physical Education	3
KIN 492	Physiology of Exercise	3
Total Hours		34

Kinesiological Concentrations: 36–61 hours

Students in the major must select three of the following concentrations for in-depth study or the pre-professional concentration plus one additional concentration. This should be discussed with an adviser in the Department of Kinesiology.

Fitness Concentration

		Hours
KIN 387	Field Experience-Disability Sport	3
KIN 493	Fit Apprsl Exer Prescrip	3
KIN 488	Intern Exer-Sport Science	9-12
Total Hours		15-18

Health Promotion Concentration

		Hours
HHE 370	Prin/Foundatn Health Promotion	3
HHE 378	Drug Awareness Education	3
HHE 440	Understanding Stress Mgt	3
HHE 467	Design Eval Health Promo	3
Total Hours		12

Nutrition Concentration

		Hours
NHM 101	Intro Human Nutrition	3
NHM 210	Dynamics Weight Control	3
NHM 315	Nutrition For Performance	3
NHM 401	Nutrition Health Profesn	3
Total Hours		12

Business Concentration

		Hours
Select 12-13 hours from the following courses:		12-13
AC 210	Intro To Accounting	4
APR 231	Intro Public Relations	3

EC 110	Principles of Microeconomics	3
LGS 200	Legal Environmt Business	3
HES 460	Sport Management	3
Total Hours		28-29

Coaching/Sport Skill Concentration

Select 12 hours from the following courses while noting the following rules:

- Students opting for this concentration may take up to three 3-hour coaching courses at the 300 level or above.
- Students may also take a maximum of six different 1-hour Basic Physical Education Program (BPEP) courses (KIN 101–KIN 170) to partially fulfill this concentration.

		Hours
Coaching courses (300-level or greater)		0-9
Basic Physical Education Program (BPEP) courses		0-6
KIN 306	Analysis Teaching Movement I	3
ATR 257	Intro to Athletic Training	3
Total Hours		6-21

Pre-professional Concentration*

		Hours
CH 101	General Chemistry	4
CH 102	General Chemistry	4
PH 101	General Physics I	4
PH 102	General Physics II	4
MATH 113	Precalculus Trigonometry	3
PY 211	Elem Statistical Methods	3
PY electives		6
Total Hours		28

*Students selecting the pre-professional concentration in preparation for advanced professional training (e.g. physical therapy school, medical school, occupational therapy school) may work with an exercise and sport science adviser in choosing alternate courses required for admission into specific programs. Substitutions must be adviser approved.

Disability Sports Concentration

		Hours
KIN 387	Field Experience-Disability Sport	3
SPE 300	Survey Spe Accomd Stratg	3
KIN 488	Intern Exer-Sport Science	6
KIN 496	Independent Study	3
Total Hours		15

Electives as needed to complete 120 semester hours, in addition to all University core and exercise and sport science program courses.

Faculty

Department Head and Professor

Curtner-Smith, Matthew D.

Professors

Bishop, Phillip A.

Richardson, Mark T.

Vincent, John

Associate professors

Hardin, L. Brent

Sinelnikov, Oleg

Assistant professors

Hodges, Gary J.

Stran, Margaret

Wingo, Jonathan E.

Clinical instructors

Geary, Colleen

Woodruff, Elizabeth A.

Courses

KIN 101. Physical Conditioning. 1 sem. hr.
The purpose of this course is to introduce the student to the knowledge base underlying proper physical conditioning of the body and appropriate techniques for participation.

KIN 102. Horseback Riding. 2 sem. hrs.
The purpose of this course is to provide students with the knowledge and skills needed to participate in horseback riding.

KIN 103. Soccer. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of soccer.

KIN 104. Basketball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in basketball.

KIN 105. Softball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for skilled participation in the sport of softball.

KIN 106. Beginning Golf. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills to participate in a basic game of golf.

KIN 107. Intermediate Golf. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to participate at an intermediate level in the game of golf.

KIN 108. Beginning Tennis. 1 sem. hr.
The purpose of this course is to provide students with the necessary knowledge and skills to motivate participation in tennis.

KIN 109. Intermediate Tennis. 1 sem. hr.

KIN 110. Indoor Rock Climbing. 1 sem. hr.
The purpose of this course is to help students understand and demonstrate proper risk management and safety techniques, as well as proper technical skills, in order to safely enjoy the activity of indoor rock climbing.

KIN 115. Badminton. 1 sem. hr.

KIN 117. Volleyball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in volleyball.

KIN 120. Aerobics. 1 sem. hr.
This course makes available three different types of aerobics: dance, water, and spinning. Each section is designed to enhance cardiorespiratory fitness through the medium of aerobic dance, aquatic activity, or cycling. The aerobic activity should be selected by section number.

KIN 121. Beginning Social Dance. 1 sem. hr.
The purpose of this course is to introduce the student to the basic dances that are performed in a social situation.

KIN 130. Swim Fitness. 1 sem. hr.

KIN 131. Beginning Swimming. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary for participation in basic aquatic activities.

KIN 132. Intermediate Swimming. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary for participation in more advanced aquatic activities.

KIN 134. Beginning Scuba Diving. 1 sem. hr.
This course is designed to introduce students to basic scuba-diving skills, theory, and equipment.

KIN 135. Advanced Suba Diving. 1 sem. hr.
This course is designed to introduce students to advanced scuba-diving skills, theory, and equipment.

KIN 136. Master's Scuba Diving. 1 sem. hr.
The purpose of this course is to provide knowledge and skills to serve as a means of participation in master level scuba diving activities.
Prerequisite(s): HPL 134 or HPL 135 or KIN 134 or KIN 135.

KIN 138. Lifeguarding. 3 sem. hrs.
The purpose of this course is to prepare the student both mentally and physically to supervise, coordinate, and successfully control an aquatic emergency.

KIN 140. Water Safety Instruct. 3 sem. hrs.
The purpose of this course is to provide knowledge of water safety instruction so that the student will be able to instruct groups and individuals in this discipline.

KIN 145. Beginning Racquetball. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to participate in the game of racquetball.

KIN 153. Judo. 1 sem. hr.

KIN 154. Self Defense for Men. 1 sem. hr.

KIN 155. Self Defense for Women. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills that will enhance the student's ability to defend herself in case of physical or sexual assault as well as to enhance her overall personal safety.

KIN 157. Beg Weight Training. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to design and follow a basic weight-training program.

KIN 167. Running. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary to design and follow a basic running program.

KIN 170. Beginning Karate. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of karate.

KIN 199. Ecol Appr Hlth & Fitness. 3 sem. hrs.
This introductory course examines the basis for and interrelationships among the six aspects of wellness: social, physical, emotional, intellectual, spiritual, and environmental. The course addresses issues of physical fitness, wellness, and personal safety applicable to the college age group.

KIN 200. Weight Mgt Principles. 3 sem. hrs.
This course is designed around successful weight management concepts and pitfalls. Topics include physical activity, behavior, and lifestyle modification. Hands-on activities include measures of daily energy expenditure, personal fitness, target body weight, and development of a personalized exercise plan.

KIN 262. Advanced Sports Techniques/Fit. 2 sem. hrs.

KIN 295. Workshop Athl Coach Educ. 3-6 sem. hrs.
This flexible and concentrated course allows for focus on selected aspects of coaching.

KIN 300. Intro to Kinesiology. 3 sem. hrs.
A critical analysis of socio-cultural issues of the body throughout history and an in-depth study of physical education, fitness, and sport programs and professions.

KIN 305. Dance & Gymnastics. 2 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in gymnastics and dance and to acquaint them with effective teaching behaviors appropriate for these activities.

KIN 306. Analysis Teaching Movement I. 3 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in invasion, striking/fielding and target games, and acquaint them with effective teaching behaviors appropriate for these same types.

KIN 307. Teach Trk & Fld/Net Game. 2 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in track and field and net/wall games, and acquaint them with effective teaching behaviors appropriate for these activities.

KIN 310. Teaching Swimming. 2 sem. hrs.
The purpose of this course is to improve students' swimming skills and knowledge of water safety and to acquaint them with effective teaching behaviors appropriate for this activity.

KIN 311. Tch Hlth Related Fitness. 1 sem. hr.
The purpose of this course is to improve students' knowledge of the basic principles of health-related fitness and acquaint them with effective teaching behaviors appropriate for fitness instruction.

KIN 350. Secondary Curriculum. 3 sem. hrs.
The purpose of this course is to provide students with knowledge of current curricular and instructional practices for secondary physical education programming. This course must be taken in conjunction with KIN 351.

KIN 351. Secondary Clinical Experience. 3 sem. hrs.
The purpose of this clinical experience is to provide students with the opportunity to teach secondary students in a public school setting. This course must be taken in conjunction with KIN 350.

KIN 352. Psychology of Coaching. 3 sem. hrs.
This course is designed to introduce students to the psychology of coaching.

KIN 360. Subj Matter Elem Physical Educ. 3 sem. hrs.
Provides knowledge of subject matter for elementary physical education and a comprehensive K-5 curriculum. Concurrent enrollment in KIN 361 is required.

KIN 361. Elem Phys Ed Curr Phil Theory. 3 sem. hrs.
This course is designed to help students improve their abilities to teach elementary physical education and to plan and reflect on lessons, units and a comprehensive K-5 curriculum. This course must be taken concurrently with KIN 360.

KIN 362. Motor Development. 3 sem. hrs.
Study of growth in phylogenetic and ontogenetic sequence, and the motor development sequence across the lifespan; integration of movement skill and knowledge development. A field experience is required.

KIN 364. P E Elem Sch Elem Ed Maj. 3 sem. hrs.
This course is designed to provide students with knowledge of current curricular and instructional practices in elementary physical education and to provide them with opportunities to practice-teach in a public-school setting.
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 380 and CEE 401 and CEE 495.

KIN 365. Applied Biomechanics. 3 sem. hrs.
Review of basic anatomy, especially the muscular system, and examination of the relationship of fundamental laws of physics to human movement. Includes mechanical principles of skill instruction and analysis.
Prerequisite(s): BSC 215 or BSC 216.

KIN 366. Evaluation and Measurement. 3 sem. hrs.
Study of the administration and evaluation of test batteries in physical education, fitness management, and personal training.

KIN 367. Training Champion Athletes. 1 sem. hr.

KIN 370. Coaching Soccer. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of soccer.

KIN 380. Coaching Officials. 3 sem. hrs.
The purpose of this course is to help students understand and demonstrate various aspects of sports officiating. To convey knowledge of basic rules in specific sport activities and also gain experience teaching sport rules to perspective officicals.

KIN 381. Coaching Football. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach football.

KIN 382. Coaching Basketball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of basketball.

KIN 383. Coaching Baseball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of baseball.

KIN 384. Coaching Track and Field. 3 sem. hrs.

KIN 386. Coaching Volleyball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of volleyball.

KIN 387. Field Experience-Disability Sport. 1-3 sem. hr.
Supervised professional experience in a fitness or related setting; observation and participation under the direction of a professional at the site.

KIN 388. Professional Development in Fitness. 3 sem. hrs.
In addition to supervised professional experience in fitness through observation/participation under the direction of a professional within the community, students will learn valuable professional development tools such as writing a resume, cover letter, and thank you letter, as well as preparing for a professional interview.

KIN 390. Sports Workshop. 3 sem. hrs.

KIN 420. Issues in Athletics Coaching. 3 sem. hrs.
This course is designed to examine current issues, controversies, trends, and problems in the field of coaching.

KIN 464. Admin Phys Educ & Sport. 3 sem. hrs.
Organization and administration of health, physical education, and athletic programs for elementary and secondary schools.

KIN 468. Adapted Physical Education. 3 sem. hrs.
The course includes basic information on disability sport and physical education programs; roles of various service agencies and organizations; state and federal legislation; and inclusion strategies. A clinical experience is required. Writing proficiency within this discipline is required for a passing grade in this course.

KIN 487. Physical Educ Teach Pract. 3 sem. hrs.
This course is designed to provide students with the knowledge and skills to implement additional curricular models at both the elementary- and secondary-school levels.
Prerequisite(s): Admission to Teacher Education Program.

KIN 488. Intern Exer-Sport Science. 3-12 sem. hrs.
Directed internship in an area of specialization, completed in cooperation with a community agency or business, clinical, or other appropriate organization. Observation and on-the-job experience through direct participation in ongoing programs.

KIN 489. Clinic Exper In Coaching. 1-6 sem. hr.

KIN 491. Sport Exercise & Social Scienc. 3 sem. hrs.
This course explores the major issues that occupy social sciences involved in the study of sport and exercise. Writing proficiency within this discipline is required for a passing grade in this course.

KIN 492. Physiology of Exercise. 3 sem. hrs.
This course examines the human physiological response to exercise.
Prerequisite(s): BSC 215 or BSC 216.

KIN 493. Fit Apprsl Exer Prescrip. 3 sem. hrs.
A study of the application of exercise testing and prescription principles to apparently healthy and diseased populations. Successful leadership, programming, and management principles for fitness settings will also be examined.
Prerequisite(s): KIN 492.

KIN 496. Independent Study. 1-6 sem. hr.
The purpose of this course is to provide the student an opportunity to further develop their skills/knowledge/instructional techniques in the area of kinesiology.

KIN 497. Internship Phys Education. 3-12 sem. hrs.
Prerequisites: Senior standing and admission to the Teacher Education Program, KIN 350, KIN 351, KIN 360, KIN 361, KIN 487, a minimum GPA of 2.5 for all work attempted, and a minimum GPA of 2.5 in the major. Full-time supervised teaching experience in elementary and secondary schools. Includes a weekly one-hour seminar. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.

Department of Music Education

Associate Professor Marvin E. Latimer, Department Head
Office: 261-A Moody Music Building
The programs in music education require the completion of at least 146 semester hours as specified in this section and lead to the bachelor of science in education degree and the Alabama Class B (P–12) Professional Certificate.

NOTE: Admission to this program is competitive, and meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program.

With permission from the Music Education department head, BS students in music education may also pursue a second bachelor's degree in music (BM). This option requires 34–54 additional credit hours to earn a BM degree, depending on the area of focus (e.g., performance, jazz studies, composition or theory). The undergraduate catalog is published annually. Program advising sheets are updated more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should obtain the most recent advising sheets, available from 261 Moody Music Building.

Music Education Teaching Fields

Instrumental or Vocal/Choral

The University of Alabama GPA — and, if transfer work, the overall GPA — in MUS, MUA and MUE courses must meet the criteria outlined in this section. Each list's GPA is calculated separately and must meet the minimum, even if the overall GPA is 2.75 or higher.

Auditions

All students must pass an audition and take an exam on music fundamentals in order to declare a music education major. To schedule an audition, students must fill out a separate application to the School of Music. Visit music.ua.edu/undergraduates/auditions for an application or more information.
Auditions typically take place between January and the first week of March prior to fall enrollment. With the assistance of an adviser in the major department, students will formally declare a major no later than the fourth semester of full-time enrollment (or at least 61 semester hours for transfer students).

Instrumental Music Education

General Studies: 47–49 hours

Courses that are common to the teaching field and the general studies component may be applied to both. Music education majors should select PY 101 Intro To Psychology or HD 101 Life Span Human Development and MUS 250 Music In World Cultures to satisfy UA Core Curriculum behavioral science and fine arts requirements.

Instrumental Music Teaching Field: 66–69 hours

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

Music Academics

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA and MUE GPA must be 2.75 or higher.

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 351	Fund Of Conducting	2
MUS 494	Band Conducting	2
MUE 200	Intro to Music Education	2
MUE 389	Clinical Experience In Mue (professional studies course included in Music Academics GPA)	
Total Hours		34

Applied and Ensemble

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA and MUE GPA must be 2.75 or higher.

		Hours
MUA 010	Music Convocation (x 5)	0
Principal Applied:		
MUA 170-MUA 190 *		4
MUA 270-MUA 290 *		4
MUA 199	Sophomore Qualifying	0
MUA 370-MUA 390 *		4
MUA 470-MUA 490 *		1
MUA 499	Senior Recital	1
Instrumental Ensemble courses (minimum one per term):		7
100-level ensemble (2 hrs, one per semester)		
200-level ensemble (2 hrs, one per semester)		
300-level ensemble (2 hrs, one per semester)		
400-level ensemble (1 hr, one semester)		
Class Piano (0-4 hours)		
Pass MUA 299** Piano Proficiency Exam		0
Complete the following with no grade less than a "B":		1-4
MUA 121	Class Piano I	
MUA 122	Class Piano II	
MUA 123	Class Piano III	
MUA 124	Class Piano IV	
Total Hours		22-25

*Course numbers MUA 170–190, MUA 270–290, MUA 370–390, and MUA 470–490 denote private study of the principal instrument or voice for music majors; each course carries one to four hours of credit and may be repeated for credit. Music majors should register for the principal applied instrument at the 100-level during the first two semesters and at the 200-level during the second two semesters at the University. Following successful completion of the sophomore qualifying examination (MUA 199 Sophomore Qualifying), students should register for the principal applied instrument at the 300-level for two semesters and one semester at the 400-level. Weekly meeting times for studio instruction must be arranged with the instructor at 3 p.m. on the first day of classes of a semester.

**Students must register for MUA 299 Piano Proficiency to show evidence of passing piano proficiency examination. Students completing the Class Piano series should register for MUA 299 Piano Proficiency concurrently with MUA 124 Class Piano IV. Students are required to take piano until evidence of passing the piano proficiency is provided.

Class Instruments

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA and MUE GPA must be 2.75 or higher.

		Hours
MUE 252	Teach String/Percu Instr	2
MUE 351	Tchg Flute Single Reeds	3
MUE 352	Teaching Double Reeds	1
MUE 353	Teach Brass Instruments	2
MUE 354	Teaching Percussion II	1
MUE 381	Vocal Methods Lab	1
Total Hours		10

See general studies requirements listed earlier in this section.

Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies: 36 hours

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

		Hours
BEF 362	School, Culture, and Society [1]	3
BEP 305	Educational Psychology [1, 2]	3
CRD 412	Impr Read Second Schools [1]	3
MUS 448	Tchng Instrumental Music Pub S	3
MUE 387	Elem School Music Program	3
MUE 389	Clinical Experience In Mue (with a grade of "B" or higher) [1, 2, 3]	3
MUE 350	Evaluatn Teaching Learning Mus	3
MUE 497	Internship Music Educ	12
SPE 300	Survey Spe Accomd Stratg [1]	3
Total Hours		36

1. A student may not enroll in more than five identified professional studies courses prior to unconditional admission to TEP.
2. This is a prerequisite for admission to the teacher education program.
3. MUE 389 is included in GPA calculation for Music Academics.

Vocal/Choral Music Education

General Studies: 47–49 hours

Courses that are common to the teaching field and the general studies component may be applied to both. Music education majors should select PY 101 Intro To Psychology or HD 101 Life Span Human Development and MUS 250 Music In World Cultures to satisfy UA Core Curriculum behavioral science and fine arts requirements.

Vocal/Choral Music Teaching Field: 65 hours

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

Music Academics

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA and MUE GPA must be 2.75 or higher.

		Hours
MUS 115	Theory I	4
MUS 117	Theory II	4
MUS 215	Theory III	4
MUS 217	Theory IV	4
MUS 250	Music In World Cultures	3
MUS 251	Music History I	3
MUS 252	Music History II	3
MUS 323	Music History III	3
MUS 351	Fund Of Conducting	2
MUS 492	Choral Conducting	2
MUE 200	Intro to Music Education	2
MUE 389	Clinical Experience In Mue (professional studies course included in Music Academics GPA)	
Total Hours		34

Applied and Ensemble

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA and MUE GPA must be 2.75 or higher.

		Hours
MUA 010	Music Convocation (x 5)	0
Principal Applied:		
MUA 171 or MUA 174		4
MUA 271 or MUA 274		4
MUA 199	Sophomore Qualifying	0
MUA 371 or MUA 374		4
MUA 471 or MUA 474		1
MUA 499	Senior Recital	1
Secondary Applied:		
MUA 271 or MUA 274		4
Choral Ensemble Courses (one per term):		7
100-level ensemble (2 hrs)		
200-level ensemble (2 hrs)		
300-level ensemble (2 hrs)		
400-level ensemble (1 hr)		
Total Hours		25

NOTE: If principal applied is voice, then secondary applied must be piano, and vice versa. Class piano (MUA 121–124) is an acceptable secondary applied; however, MUA 299 Piano Proficiency must be passed.

Class Instruments

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA and MUE GPA must be 2.75 or higher.

		Hours
MUE 251	Intro To Winds, Str, Per	3
MUE 380	Vocal Methods	2
MUE 381	Vocal Methods Lab	1
Total Hours		6

See general studies requirements listed earlier in this section.

Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies: 36 hours

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

		Hours
BEF 362	School, Culture, and Society [1]	3
BEP 305	Educational Psychology [1, 2]	3
CRD 412	Impr Read Second Schools [1]	3
MUS 447	Teaching Choral Music Publ Sch	3
MUE 387	Elem School Music Program	3
MUE 389	Clinical Experience In Mue (with a grade of "B" or higher) [1, 2, 3]	3
MUE 350	Evaluatn Teaching Learning Mus	3
MUE 497	Internship Music Educ	12
SPE 300	Survey Spe Accomd Stratg [1]	3
Total Hours		36

1. A student may not enroll in more than five identified professional studies courses prior to unconditional admission to TEP.
2. This is a prerequisite for admission to the teacher education program.
3. MUE 389 is included in GPA calculation for Music Academics.

Faculty

Department Head and Associate Professor

Latimer, Marvin E.

Professors

Ozzello, Kenneth B.

Prickett, Carol A.

Associate Professor

Hancock, Carl

McGuire, Kenneth M.

Assistant Professor

Coleman, Randall

Instructor

Witt, Anne

Courses

MUE 107. Basic Skills In Music. 2 sem. hrs.
Basic music-reading skills developed through singing and playing of instruments. The course is designed for the prospective elementary school teacher and is a prerequisite for MUE 385. Students with previous musical training may elect to demonstrate equivalent skills through testing.

MUE 200. Intro to Music Education. 2 sem. hrs.
Techniques associated with teaching music in the public schools. Development of classroom management skills and reflection on the role of the music educator in contemporary classrooms.
Prerequisite(s): MUS 115
Prerequisite(s) with concurrency: EDU 200.

MUE 251. Intro To Winds, Str, Per. 3 sem. hrs.
Group instruction in and exposure to techniques for working with wind, string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 252. Teach String/Percu Instr. 2 sem. hrs.
Group instruction in and exposure to techniques of teaching and performing on string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 350. Evaluatn Teaching Learning Mus. 3 sem. hrs.
Survey of standardized instruments and evaluation techniques in music.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and BEP 305 Admission to Teacher Education Program.

MUE 351. Tchg Flute Single Reeds. 3 sem. hrs.
Instructional techniques and materials for teaching flute and single reeds. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 352. Teaching Double Reeds. 1 sem. hr.
Instructional techniques and materials for teaching oboe and bassoon. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 353. Teach Brass Instruments. 2 sem. hrs.
Designed to provide the instrumental music education major with skills necessary to teach beginning, intermediate, and advanced students of brass wind instruments. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 354. Teaching Percussion Il. 1 sem. hr.
Instructional techniques and materials for teaching intermediate and advanced players. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 380. Vocal Methods. 2 sem. hrs.
Examination of vocal pedagogy, diction, and solo vocal literature appropriate for teaching students in a public-school setting. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: MUE 381.

MUE 381. Vocal Methods Lab. 1 sem. hr.
Examination of the vocal instrument and teaching strategies for working with young voices. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 385. Tchg Music Elementary Schools. 3 sem. hrs.
Music curriculum in elementary schools and methods and techniques of teaching music in various grades are covered.
Prerequisite(s): MUE 107.

MUE 387. Elem School Music Program. 3 sem. hrs.
Comprehensive coverage of the music curriculum in the elementary school, including current methodologies. Teaching techniques and materials are demonstrated and applied in field experiences. Offered spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): BEP 305 and MUE 389 Admission to Teacher Education Program.

MUE 389. Clinical Experience In Mue. 3 sem. hrs.
Campus- and field-based experiences in public-school music education at several levels. Microteaching and development of teaching techniques are included. Offered fall semester.
Prerequisite(s): MUS 117.

MUE 486. Marching Band Techniques. 2 sem. hrs.
Fundamentals of marching, maneuvering, and preparation and presentation of formations. Offered fall semester and in summer term during odd-numbered years.

MUE 497. Internship Music Educ. 3-18 sem. hrs.
Full time supervised teaching experience in the area of specialization (instrumental or vocal).
Prerequisite(s): MUA 499 and MUA 299 and MUS 447 or MUS 448 Admission to Teacher Education Program.

Department of Special Education and Multiple Abilities

Associate Professor Sandra Nichols, Department Head
Office: 201-B Graves Hall
The department offers undergraduate programs that require the completion of a minimum of 120 semester hours as specified and lead to the bachelor of science in education degree and the Alabama Class B Professional Certificate.

NOTE: Admission to this program is competitive, and meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

Collaborative Special Education

The special education CTP is an innovative teacher preparation program that leads to a bachelor of science in education degree with three teacher certification options at the Alabama Class B level:

- Elementary collaborative (K–6)
- Secondary collaborative (6–12)
- Dual elementary (K–6)/secondary (6–12) collaborative

The undergraduate CTP is a two-year, upper-division program that prepares students to work in special education settings with children and youth who have a wide range of disabilities. A cohort of students is accepted each fall. Students in the CTP cohort take the majority of their courses together, work on numerous collaborative assignments and projects with their peers and their instructors, and participate in a number of practicums in a variety of educational settings. In addition to practicums and internships in local education agencies, CTP students have opportunities to gain practical experience in working with individuals with disabilities. The final semester of the CTP program is devoted to a full-time teaching internship in a local education agency appropriate to the teaching certificate option selected.

The undergraduate catalog is published annually. DegreeWorks program guides within myBama are updated as policy changes are made and are thus likely to provide the most up-to-date information on degree and other requirements. In addition, a program handbook with which students are expected to be familiar is available in 201 Graves Hall.

A student must have a cumulative and University of Alabama GPA of no less than 2.75 for admission to this TEP. After admission, the student must maintain at least a 2.75 UA and overall GPA in coursework in professional studies and teaching field courses, with no grade less than a C. At least a 2.75 GPA is required for internship.

General Studies: 60 hours

General studies courses must be completed prior to being admitted to the teacher education program. Courses that are common to the teaching field and the general

studies component may be applied to both. At least 120 hours are required for the degree.

In addition to the required general studies, students in this program must complete nine additional hours of mathematics and four additional hours of science for a total of 12 hours in each area. Additionally, students must complete 12 hours in English language arts and social science.

Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

CAT 200 Computer Education Application is required.

Professional Studies

Students must earn grades of C or better in each of the following professional studies courses. The UA GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

		Hours
BEF 362	School, Culture, and Society	3
BEP 305	Educational Psychology	3
SPE 300	Survey Spe Accomd Stratg	3
SPE 304	Instructional Strategies In Sp	3
Internship:		12
SPE 499	Internship In Spe (Spco) (Elementary or Secondary)	
Total Hours		24

Teaching Field(s): 36-39 hours

Students must earn grades of C or better in each of the following teaching field courses. The UA GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

		Hours
CEE 380	Teaching Elem Math	3
CRD 369	Fundmntl Readng Instruction	3
CRD 400	Teach Readg Diverse Learn K-12	3
HD 101	Life Span Human Development	3
SPE 302	Educatl Diagn Measurmt	3
SPE 374	Parenting Children	3
SPE 382	Teaching Thinking Skills	3
SPE 414	Collaborative Consultatn	3
SPE 416	Instruct Strategy Severe Popul	3
SPE 435	Behavior Management	3
SPE 493	Intro Severe/Profound Disabili	3
Educational Methods for Mild Learning and Behavior Disorders: SPE 491 (Elem) and/or SPE 492 (Secondary)		3-6
Total Hours		36-39

Early Childhood Special Education and Early Childhood Education Dual Certification

Through the major in early childhood special education, students learn about the intellectual, physical, social and emotional development of young children with special needs and their families. Students graduating with this major are eligible for recommendation for an Alabama Class B public school certification to teach birth to age eight children with diverse needs as well as an Alabama Class B certificate in early childhood education (primary to 3rd grade). Experimental learning activities, assessment and practicums are provided for students on and off campus through the Office of Clinical Experiences. On-campus facilities providing structured practicums include the Child Development Laboratories and the Rural Infant Stimulation Environment (RISE) Program. These programs provide opportunities for students to work with infants, toddlers and children who have a broad range of special needs. In addition, all students who major in early childhood special education will complete supervised practicum and internship experiences in diverse public school settings.

The undergraduate catalog is published annually. Program advising sheets are updated as policy changes are made and are thus likely to provide the most up-to-date information on degree and other requirements through DegreeWorks in myBama.

General Studies: 60 hours

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

In addition to the required general studies, students in this program must complete nine additional hours of mathematics and four additional hours of science for a total of 12 hours in each area. Twelve hours in both English language arts and social science are required.

CAT 200 Computer Education Application is required.

Professional Studies: 24 hours

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

		Hours
BEF 362	School, Culture, and Society	3
BEP 305	Educational Psychology	3
SPE 300	Survey Spe Accomd Stratg	3
SPE 304	Instructional Strategies In Sp	3
SPE 479	Intern In Early Childhood Spe	12
Total Hours		24

Dual Certification Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

		Hours
CD 226	Lang & Speech Develop	3
CEE 380	Teaching Elem Math	3
CRD 369	Fundmntl Readng Instruction	3
CRD 400	Teach Readg Diverse Learn K-12	3
HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
SPE 374	Parenting Children	3
SPE 414	Collaborative Consultatn	3
SPE 435	Behavior Management	3
SPE 471	Dev Persp Young Child W/ Disab	3
SPE 476	Assessment Of Young Children	3
SPE 477	Differentiated Acad. Instruct	3
SPE 478	Meth Teach Yng Child W/ Disb	3
Total Hours		39

See general studies requirements listed earlier in this section. The following exceptions apply:

- **Area II:** Courses should be selected to meet teaching field or prerequisite requirements.
- **Area IV:** Courses should be selected to meet teaching field or prerequisite requirements.
- **Area V:** From those courses listed in option 2, CAT 200 Computer Education Application and CAT 250 Computer Educ Curric Devel should be selected.

Multiple Abilities Program, K-6 (MAP)

Professor Madeleine Gregg, Program Coordinator
Office: 215-C Graves Hall
The Multiple Abilities Program (MAP) is an integrated program leading to dual certification in collaborative teacher (K-6) and elementary education (K-6). This program is open to a cohort of 25 full-time students, who are selected to complete the 78-semester-hour course sequence over four consecutive semesters and one summer term. Students may be considered for participation only if, by the end of the summer term prior to MAP coursework, they have completed the College of Education's general studies program, excluding CAT 200 Computer Education Application and CAT 250 Computer Educ Curric Devel, but including MUE 107 Basic Skills In Music.

The undergraduate catalog is published annually. Program advising sheets are updated as policy changes are made; they are thus likely to provide the most up-to-date information on degree and other requirements through DegreeWorks in myBama.

General Studies: 60 hours

Each student must secure a core check from personnel in 104 Carmichael Hall. Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree. See general studies requirements listed earlier.

Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

The student is responsible for maintaining a minimum 2.75 GPA for UA coursework, cumulative coursework including transfer work, and MAP coursework.

The following are required to be eligible to continue in the program after the first semester:

- A grade of at least a C in all MAP coursework.
- Demonstrated proficiency in writing coherent, logical and carefully edited prose.
- A score of 90 percent on the math competency test by the end of the semester.
- Two of the written assignments that have the W designation (see list below) will be assessed for writing competence and returned by midterm in order to give feedback about writing competence. One other written assignment, completed late in the first semester, will also have a W designation. Writing proficiency is required for a passing grade in MAP 301 Professionalism. All MAP written assignments will require coherent, logical and carefully edited prose.

Fall I		Hours
MAP 301	Professionalism (W)	3
MAP 311	The Learner	3
MAP 321	Communicatn/Collaboratn (W)	3
MAP 331	Facilitating Learning	3
MAP 341	Field Exper/Practicum	3
Total Hours		15

Spring I		Hours
MAP 302	Professionalism	3
MAP 312	The Learner	3
MAP 322	Communicatn/Collaboratn	3
MAP 332	Facilitating Learning	3
MAP 342	Field Exper/Practicum	3
Total Hours		15

Summer I		Hours
MAP 403	Professionalism	2
MAP 413	The Learner	2
MAP 423	Communication And Collaboratn	1
MAP 433	Facilitating Learning	1
MAP 443	Enrichment Workshop Practicum	6
Total Hours		12

Fall II		Hours
MAP 404	Professionalism	3
MAP 414	The Learner	3
MAP 424	Communicatn/Collaboratn	3
MAP 434	Facilitating Learning	2
MAP 444	Field Experience Spe Interns	6
Total Hours		17

Spring II		Hours
MAP 405	Professionalism	3
MAP 415	The Learner	3
MAP 425	Communication/Collaboration	3
MAP 435	Facilitating Learning	2
MAP 445	Field Experience Spe Internsh	6
Total Hours		17

NOTE: Students in this program must complete four additional semester hours of natural science (for a total of 12) and additional hours of mathematics (for a total of 12 hours). MATH 100 Intermediate Algebra and MATH 208 Number And Operations may be taken in addition to other MA-designated MATH courses. Twelve hours in both English language arts and social science are required.

Faculty

Department Head and Associate Professor

Nichols, Sandra Cooley

Professors

Donovan, Carol A.

Ellis, Edwin S.

Gregg, Madeleine

Associate Professor

Beirne-Smith, Mary

Chapman, J. Keith

Mutua, N. Kagendo

Newman, Jane Lumpkin

Siders, James

Assistant Professor

Besnoy, Kevin

McDaniel, Sara

Swoszowski, Nicole Cain

Clinical Professor

Wetzel, Kathy Shaver

Clinical Assistant Professor

Howard, Pamela

Multiple Abilities Program (MAP) Courses

MAP 301. Professionalism. 3 sem. hrs.
This course is designed as a developmental sequence of integrated themes covering historical foundations of education, educational finance, legal and ethical issues, contemporary issues, and fundamental technology concepts and integrated with MAP 302, MAP 403, MAP 404 and MAP 405.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 302. Professionalism. 3 sem. hrs.
This course continues the developmental sequence of integrated themes from MAP 301. The underpinnings of various school reform efforts and their potential effects on classroom practices are a central focus of the course.

MAP 311. The Learner. 3 sem. hrs.
Integrated with MAP 312, MAP 413, MAP 414, MAP 415, this course is a developmental sequence covering concepts of human development, language development, literacy acquisition, and multiculturalism. A central theme is the development of skill in observing children and understanding their behavior from a developmental perspective. Group projects, independent study, observation, assigned readings, and field activities are part of the course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 312. The Learner. 3 sem. hrs.
Integrated with MAP 311, MAP 413, MAP 414, MAP 415, this course is designed as an integrated, developmental sequence covering human development, language development, literacy acquisition, and multiculturalism, as well as concepts of assessment of the learner. The course includes group projects, independent study, observation, assigned readings, and field activities.

MAP 321. Communicatn/Collaboratn. 3 sem. hrs.
Integrated with MAP 322, MAP 423, MAP 424, MAP 425, this course introduces concepts of cooperative partnerships in school and between home and school as a vehicle for quality educational experiences. Topics include social functions of speech communication; verbal and nonverbal communication; and skills essential for professional communication. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 322. Communicatn/Collaboratn. 3 sem. hrs.
Integrated with MAP 321, MAP 424, MAP 425, and other MAP courses, this course further explores the concept of cooperative partnerships to ensure quality educational experiences for children whose needs vary widely (including those with learning and/or behavior disabilities). Skills essential for professional communication, especially those needed for effective collaboration, are a central theme of the course. Computing proficiency is required for a passing grade in this course.

MAP 331. Facilitating Learning. 3 sem. hrs.
By observing and participating in classrooms, students acquire understanding of pedagogies appropriate for young children. This course is closely related to other MAP "Facilitating Learning" title courses. This course introduces methods of instruction in math, science, literacy, art and social studies. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 332. Facilitating Learning. 3 sem. hrs.
Using observation and study, students in this course learn about effective instruction of children with diverse needs, including those with learning and/or behavior disabilities. The course covers teaching young children science, math, music, literacy (reading, writing, and language arts), and physical education. A central theme of this course (which is integrated with MAP 331, MAP 433, MAP 434, and MAP 435) is use of instructional tactics and strategies to ensure meaningful learning and empowerment of children. Writing proficiency within this discipline is required for a passing grade in this course.

MAP 341. Field Exper/Practicum. 3 sem. hrs.
In this practicum, students complete observation-based research activities in a variety of general and special education classrooms. A variety of practicum experiences with emerging readers is required.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 342. Field Exper/Practicum. 3 sem. hrs.
This is the second MAP field experience, and it, too, is integrated with the MAP coursework that precedes and follows it. During the semester month-long practicum, students serve as apprentices in a mentoring teacher's classroom, engaging in co-planning and co-teaching lessons. They have a variety of practicum experiences with elementary students.

MAP 403. Professionalism. 2 sem. hrs.
This course extends the developmental themes of MAP 302 and is integrated with other MAP courses. Developing a "self as professional" perspective is a central theme of the course.

MAP 404. Professionalism. 3 sem. hrs.
This course extends developmental themes covered in previous "Professionalism" courses. Emphasis is on gathering and analyzing educational data and information in order to make classroom teaching more effective.

MAP 405. Professionalism. 3 sem. hrs.
This course extends developmental themes covered in previous "Professionalism" courses.

MAP 413. The Learner. 2 sem. hrs.
Integrated with MAP 311, MAP 312, MAP 414, MAP 415, and other courses in the MAP program, this course is an integrated, developmental sequence exploring child development during infancy and childhood, motivation theory, paradigms of educational psychology, and talent development.

MAP 414. The Learner. 3 sem. hrs.
The course is integrated with the rest of the MAP curriculum and teaches the theory and practice of the construction of tests for student assessment. Nonbiased assessment and placement of and intervention with culturally/socially/ economically diverse students are emphasized.

MAP 415. The Learner. 3 sem. hrs.
Building on previous MAP courses, this course develops a sophisticated understanding of human development, human learning and language acquisition, and the social context of all of these. Vygotsky's social learning theories and their practical implications for the multiple abilities classroom are a key focus.

MAP 423. Communication And Collaboratn. 1 sem. hr.
Building on previous MAP courses, the course focuses on interpersonal skills needed to communicate effectively with parents through conferencing, notes/letters, and newsletters about curriculum topics, themes, classroom events and children's work.

MAP 424. Communicatn/Collaboratn. 3 sem. hrs.
Building on previous MAP courses, the course focuses on planning and conducting conferences to establish, communicate, and achieve the goals and essential characteristics of an educational program.

MAP 425. Communication/Collaboration. 3 sem. hrs.
Building on previous MAP courses, the course focuses on the use of social problem-solving skills: conflict resolution, anger diffusion, and crisis intervention.

MAP 433. Facilitating Learning. 1 sem. hr.
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 434, and MAP 435. It concentrates on the employment of community resources and on presentation skills.

MAP 434. Facilitating Learning. 2 sem. hrs.
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 433, and MAP 435. It concentrates on the integration and inclusion of exceptional children and children from diverse backgrounds in various classroom settings: planning for individual needs, modifying objectives and adapting curriculum materials, and personalizing instruction.

MAP 435. Facilitating Learning. 2 sem. hrs.
This course extends concepts of learning, classroom management, behavior modification, and individual behavior management. Emphasis is on using effective programs and interventions with children of diverse abilities to facilitate social and emotional growth and encourage appropriate behavior.

MAP 443. Enrichment Workshop Practicum. 6 sem. hrs.
This course concentrates on learning strategies and thinking skills, and how to integrate them in one's teaching throughout the instructional program. It explores how distinguishing the cognitive from the affective components of thinking skills can help pupils of all abilities to learn responsibility for the decision-making process and help them express their thoughts.

MAP 444. Field Experience Spe Interns. 6 sem. hrs.
This course begins as an apprenticeship with a mentoring teacher in a special education classroom. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting classroom instruction for pupils with mild learning and behavior disabilities.

MAP 445. Field Experience Spe Internsh. 6 sem. hrs.
This course begins as an apprenticeship with a mentoring teacher in an elementary general education classroom setting. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting the classroom instruction.

Special Education and Multiple Abilities (SPE) Courses

SPE 100. Except Lives in Society. 3 sem. hrs.
Introduction and overview for non-education majors regarding characteristics of diversity, exceptionalities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included. Through web-based readings/critiques, class lecture, and service learning opportunities, participants in this course will explore diverse populations from within the context of characteristics, issues and trends, cultural differences, and research. Offered fall and spring semesters.

SPE 272. Intro to Pre-K Education. 3 sem. hrs.
This course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K initiative. An overview of development, guidance, and curriculum planning will be included. Laboratory/practicum participation in a Pre-K classroom will be required.

SPE 300. Survey Spe Accomd Stratg. 3 sem. hrs.
Characteristics of all exceptionalities, and educational and behavioral adaptations for exceptional children in the general education classroom. A practicum experience that acquaints students with exceptionalities is included. Offered each semester.

SPE 302. Educatl Diagn Measurmt. 3 sem. hrs.
Introduction to group and individual assessments used for evaluating student learning and for planning instruction. Emphasis is on appropriate test selection and use of results. Writing proficiency within this discipline is required for a passing grade in this course.

SPE 304. Instructional Strategies In Sp. 3 sem. hrs.
Addresses curriculum planning and selection of instructional tasks, with emphasis on making decisions that facilitate learning in students with disabilities.

SPE 326. Instruct Sign Language. 3 sem. hrs.
Introduction to the culture of the deaf community and to the sign language continuum, providing a knowledge base from which students can communicate with the deaf and hard of hearing in the school setting.

SPE 374. Parenting Children. 3 sem. hrs.
Explores the role of families in the educational process and how professionals work with families. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semester.

SPE 382. Teaching Thinking Skills. 3 sem. hrs.
An overview of the dimensions of thinking skills with a focus on practical instructional techniques for special and regular education programs. Includes detailed training in models for teaching thinking skills that result in improved student and teacher thinking.

SPE 414. Collaborative Consultatn. 3 sem. hrs.
Examination of the ways in which individuals interact with educational systems, communities at large, and each other to bring about appropriate educational services for students with special educational needs. Included are fundamentals of group process, human behavior and interaction, and motivation, as well as skills and knowledge necessary for successful collaboration and consultation with others concerned with education of students who present exceptional needs.

SPE 416. Instruct Strategy Severe Popul. 3 sem. hrs.
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in education settings for children with severe disabilities. Emphasis is placed on educational programming, subject matter, professional responsibilities of teachers and related service personnel, curriculum development, physical management of children with severe disabilities, adaptation of materials and equipment, and modification of programs in varied settings (clinical, homebound, hospital, public schools).

SPE 435. Behavior Management. 3 sem. hrs.
The course addresses the development of models for managing behavior, to help teachers prevent or deal with emotional conflict in the classroom.

SPE 471. Dev Persp Young Child W/ Disab. 3 sem. hrs.
A course introducing the field of early childhood special education, including its rationale and legal issues. Offered fall semester.

SPE 476. Assessment Of Young Children. 3 sem. hrs.
Basic principles and practices involved in the assessment and evaluation of young children. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 477. Differentiated Acad. Instruct. 3 sem. hrs.
This course examines differentiated instructional methods using cross-content instructional examples. The course provides opportunities to develop knowledge and skills in lesson and unit planning, pedagogy, kinds of materials and evaluation of learning.
Prerequisite(s): SPE 304 and SPE 471 or SPE 571; and SPE 476 or SPE 576 Admission to Teacher Education Program
Prerequisite(s) with concurrency: SPE 471.

SPE 478. Meth Teach Yng Child W/ Disb. 3 sem. hrs.
Curriculum methodology materials and management technology for young children with disabilities.

SPE 479. Intern In Early Childhood Spe. 3-12 sem. hrs.
Fourteen week split internship providing supervised teaching experience in classrooms for young children. Offered spring and fall only. Application for internship must be made the semester prior to internship (excluding summer term) through Office of Educational Field Experience.
Prerequisite(s): SPE 478 and SPE 476 and SPE 471 and SPE 374 Admission to Teacher Education Program.

SPE 491. Educ Method Elem Mlbd. 3 sem. hrs.
Designed to develop skill in the use of curriculum, materials, and management strategies with elementary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 492. Educ Methods Second Mlbd. 3 sem. hrs.
Designed to develop skill in the use of curriculum, materials, and management strategies with secondary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 493. Intro Severe/Profound Disabili. 3 sem. hrs.
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in educational settings for child/youth with severe/profound disabilities. Practicum required.

SPE 499. Internship In Spe (Spco). 4.5-7.5 sem. hrs.
Fourteen-week split internship providing supervised teaching experience in elementary and secondary classrooms. Student teaching is only offered during the spring semester, unless written permission is secured from the department head. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program.

College of Engineering

History and Objectives

Engineering instruction was instituted at The University of Alabama in 1837. The College of Engineering was organized as a separate division of the University in 1909. As the original engineering college in the state of Alabama, the College of Engineering has as its mission to:

- provide high-quality undergraduate, graduate, and continuing education in engineering and computer science to prepare our graduates for professional careers, leadership positions and a lifetime of learning
- conduct high-quality research programs that will assist in the economic development of the state and nation, advance the body of knowledge, and improve the quality of human life
- serve individual practicing engineers and computer scientists; industry, government and educational entities; and technical societies through professional expertise, active involvement and availability of facilities

To accomplish its mission, the College of Engineering offers students an outstanding faculty, accredited engineering and computer science programs, and some of the most advanced facilities in the nation. Numerous research projects offer students opportunities to work with faculty in solving current societal problems and in developing technological resources for the future.

For more information about the College of Engineering and its programs and services, call or write: The University of Alabama, College of Engineering, Box 870200, Tuscaloosa, AL 35487-0200; (205) 348-6400; eng.ua.edu.

Accreditation

The following undergraduate engineering programs in UA's College of Engineering are accredited by the Engineering Accreditation Commission of ABET:

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Construction Engineering
- Electrical Engineering
- Electrical Engineering – Computer Engineering Option
- Mechanical Engineering
- Metallurgical Engineering

The undergraduate Computer Science program in UA's College of Engineering is accredited by the Computing Accreditation Commission of ABET.

Freshman Engineering Program

The Freshman Engineering Program at The University of Alabama offers a first-year experience for all students that is designed to both motivate and engage our students. All engineering majors take a common first-year program that:

- introduces students to the field of engineering
- ensures that all students have the skill sets necessary to successfully complete their second-year engineering courses
- illustrates the relevance of mathematics and science to the field of engineering

This site contains information for current and prospective students. If you have any questions about the Freshman Engineering Program at The University of Alabama, please visit eng.ua.edu/fep; call 205-348-0750; or write to Freshman Engineering Program, College of Engineering, 171 Hardaway Hall, The University of Alabama, Box 870285, Tuscaloosa, AL 35487-0285.

Admission and Retention Requirements

The College of Engineering follows the admission and retention standards set by the University and reserves the right to change policies, procedures, degree requirements, schedules, courses offered and other standards in light of circumstances that may arise after the publication of this catalog.

Admission as a Freshman Student

A student who meets the criteria for admission to The University of Alabama as a freshman student is eligible for admission to the College of Engineering. Specific information about these criteria is available from The University of Alabama, Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; (205) 348-5666 or toll-free 1-800-933-BAMA in the continental United States.

Entering freshmen may enroll in specific degree programs, or they may enroll as undesignated engineering students. Differences in students' abilities and in the degree of their preparation make it necessary for each student to begin work in chemistry, mathematics and English at the level determined by placement tests offered by the departments of chemistry, English and mathematics. Grade points earned in preparatory courses are counted in the grade point average, but hours earned for such courses may not be applied to the requirements for a degree.

Common Freshman Year

All students in the College of Engineering have a common freshman-year experience. As part of this experience, all students must complete five hours of fundamental engineering courses. These four hours consist of:

ENGR 111	Engineering for the Future	1
OR One-hour introduction to one of the majors in the College		
ENGR 103	Engineering Foundations	3

Admission as a Transfer Student

A student seeking to transfer into the College of Engineering from another institution is required to have an official transcript sent directly to the UA Office of Undergraduate Admissions from each college or university previously attended. A grade point average of C (2.0 on a 4.0 scale) or better for all college-level work attempted is required for admission to the University and to the College. Transferred courses will be applied as appropriate to a student's degree program. Courses where a grade of D was earned will not be applied if the course is a prerequisite to another course required for the student's degree program. The authority to apply or to deny transferred credit rests with the College.

Transfers from Two-year Colleges

At most, 50 percent of the total number of hours required for an undergraduate degree in the College of Engineering may be taken at two-year colleges and applied toward graduation requirements. All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama.

Transfers from Senior Colleges and Universities

Courses transferred from institutions accredited by ABET will be accepted within the broad limits of the graduation requirements of the college and the University. Students seeking to transfer credit from institutions not accredited by ABET or by a regional or national accrediting agency may be granted transfer credit on a provisional basis. Consult the director of Engineering Student Services or the UA Office of Undergraduate Admissions for more information.

Transfers from Other UA Divisions

Students who have earned fewer than 45 semester hours may transfer to the College of Engineering if they satisfy The University of Alabama Scholastic Progress Standard (see the Academic Records and General Academic Policies section of this catalog). A student who has earned 45 or more semester hours must have cumulative grade point averages of at least 2.0 and an average of at least 2.0 (on a 4.0 scale) for a minimum of 12 semester hours at The University of Alabama. Credit that another division of the University previously accepted for transfer from another institution will be reevaluated by the College of Engineering when a student transfers into the college from within the University.

Degrees and Programs Offered

The College of Engineering offers undergraduate programs leading to the bachelor of science degree in:

- aerospace engineering
- chemical engineering
- civil engineering
- computer science
- construction engineering
- electrical engineering
- mechanical engineering
- metallurgical engineering

An option in computer engineering is available in the electrical engineering program. The College offers graduate programs leading to the master of science degree in:

- aerospace engineering
- chemical engineering
- civil engineering
- computer science
- electrical engineering
- environmental engineering

- engineering science & mechanics
- mechanical engineering
- metallurgical engineering

The College offers programs leading to the doctor of philosophy degree in the fields of:

- chemical engineering
- civil engineering
- computer science
- electrical engineering
- engineering science & mechanics
- mechanical engineering
- metallurgical engineering

A PhD in the area of materials science is offered in collaboration with The University of Alabama at Birmingham and The University of Alabama in Huntsville. Students should consult The University of Alabama graduate catalog for information concerning the graduate degree programs.

Minors in Engineering for Non-engineering Majors

Two types of minors in the College of Engineering are available to students enrolled in other divisions of the University. The minors require a minimum of 18 hours in engineering courses.

- The Type 1 minor is a specialized program in any of the College's engineering disciplines. Course requirements and advising are available from the appropriate department head, who will appoint an adviser for a student desiring this type of minor.
- The Type 2 minor is a general minor in engineering that requires a minimum of 18 hours in courses chosen from a list available from the Associate Dean for Academic Programs. The Associate Dean will appoint an adviser for a student pursuing a Type 2 minor.

Degree Requirements

The requirements specified in this catalog are intended for all students who begin their college careers during or after the fall of 2012. Students who have begun their careers prior to fall 2012 may choose to complete the requirements outlined in this catalog, but if they do so they must complete all of the requirements listed herein. Students may not choose some requirements from this catalog and some from previous catalogs. If a student does not complete requirements for the undergraduate degree within a period of seven years from the date of admission, the College of Engineering will modify the student's program to bring it into compliance with current degree requirements.

Application for Degree

Each candidate for graduation must submit an application for degree to Engineering Student Services (112 H. M. Comer Hall). Students who expect to complete degree requirements in May can submit their degree applications beginning on October 1 of the previous year. Those who expect to finish their requirements after the Interim term, summer session or fall semester should submit their applications beginning the previous March. In all cases, an application for degree must be on file in Engineering Student Services no later than the time at which the degree candidate registers for his or her final semester in residence. Students who apply for their degrees after registration for the final semester will not receive their diplomas until the following term.

Graduation Standards

Each student who expects to earn a baccalaureate degree from the College of Engineering must meet the following minimum standards of academic achievement:

- successfully complete all courses specified in the degree program
- complete at least one-half of the work required within the discipline on this campus
- earn at least a C average (2.0 on a 4.0 scale) for all work attempted
- earn at least a C average (2.0 on a 4.0 scale) for all work attempted on this campus
- earn at least a C average (2.0 on a 4.0 scale) for all work attempted in his or her professional courses
- earn at least a C average (2.0 on a 4.0 scale) for all work attempted in his or her professional courses on this campus
- meet any additional academic requirements of the program offering the degree

General Policy

Auditing Courses

Students may register for courses as auditors with the approval of the departments offering the courses. The deadline for registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester. The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. Audited courses do not count toward degree requirements.

Course Substitution

Occasionally, a student may wish to substitute another course for a required course. All such requests should first be presented via written petition to the student's adviser and department head, who will:

- weigh the merits of course substitution and determine if the content of the proposed course is appropriate as a substitute
- make a recommendation to the Associate Dean for Academic Programs; decisions on course substitution recommendations will be made by the Associate Dean for Academic Programs

Double/Second Majors

Students seeking a double major must complete the Double/Second Major form located in the Office of Engineering Student Services (112 H. M. Comer Hall). The same academic standards apply to a double/second major as to any other course sequence for a College of Engineering degree. The College of Engineering departmental adviser, as well as the adviser outside the College of Engineering, must approve all courses for the double/second major.

Engineering Alternative to the Statewide General Studies Curriculum

Act 94-202, enacted by the Alabama legislature in 1994, provided equivalency for first- and second-year courses taught by colleges in the state of Alabama. In 1995, engineering educators presented an engineering alternative to the general studies curriculum (GSC) that modified the Act to specific needs of engineering colleges statewide. The engineering alternative was unanimously approved by the statewide Articulation and General Studies Committee in December 1995 and was made a part of GSC. The details of the College of Engineering Core Curriculum/General Education Requirements are listed in the Academic Records and General Academic Policies section of this catalog.

Free Electives

Most college courses may be counted as free electives. Any exceptions for College of Engineering students are the mathematics courses below MATH 125 Calculus I. ROTC credit may be applied with the approval of the student's adviser and department head.

Mathematics

An entering student must enroll in the mathematics course determined by the student's score on the mathematics placement test. A grade of C- or higher must be earned in each mathematics course that leads to another course in the sequence, preparing the student to enroll in calculus.

Online Courses

College of Engineering students may enroll in online courses through the College of Continuing Studies. An online course with the same course number as a regularly scheduled on-campus course fulfills the same degree requirements as an on-campus course. Further information about online courses is available through the College of Continuing Studies.

Pass/Fail Option

The pass/fail option cannot be exercised for courses that are to be applied to the requirements of an engineering or computer science degree. For further information about the pass/fail option see the Academic Records and General Academic Policies section of this catalog.

Prerequisites

The College of Engineering requires a grade of C- or better to be earned in each course that serves as a prerequisite to any course that will be applied toward a student's degree requirements. If a grade of lower than C- is received in a course that is a prerequisite, the prerequisite course must be repeated and a grade of C- or higher must be earned before a enrolling in the subsequent course. In such cases, it is the student's responsibility to make the necessary schedule changes through the drop/add process. These changes should be made prior to the beginning of the next term, and they must be made before the deadline for adding courses. Failure to make the changes on time will result in administrative withdrawal from the

course whose prerequisite the student has not fulfilled with a grade of C- or higher. A student who is administratively withdrawn from a course after the deadline to add a course may not add a course to replace that from which he or she was withdrawn.

Registration

Schedules for faculty advising and other registration information are posted throughout the College of Engineering just prior to and during the registration period for each semester or term. Additional information is available from the director of Engineering Student Services in 112 H.M. Comer Hall and from the departmental offices. The student's adviser must approve all schedules and drop/add forms.

Repeating Courses

The repetition of courses is governed by the following restrictions:

- In computing the grade point average, a grade of I (Incomplete) is included as hours attempted with zero grade points earned. A student on probation must remove I grades within two weeks of the beginning of classes during his or her next term in residence. Students not on probation must remove I grades within four weeks of the beginning of classes during the next term. If the I grade was earned in a required course and is not removed, the course must be repeated.
- A record of original and repeat enrollments appears on the student's transcript.
- Each enrollment in a course is included in the cumulative hours attempted and in the computation of grade point averages. However, only the final enrollment may count as credit toward the degree.
- Courses completed with grades of A, B or C may not be repeated except on an audit basis.
- Enrollment for credit in a course that is at a lower level than a course the student has already completed for credit with a grade of A, B or C is prohibited. For example, a student with credit for with a grade of A, B or C may not enroll for credit in the following courses or similar courses:

MATH 100	Intermediate Algebra	3
MATH 110	Finite Mathematics	3
MATH 112	Precalculus Algebra	3
MATH 113	Precalculus Trigonometry	3
MATH 115	Precalc Algebra & Trig	3
MATH 121	Calculus & Applications	3

  This policy also prohibits repeating a course for credit if equivalent transfer credit with a grade of Pass has already been awarded.

- Enrollment for credit in a course is not prohibited simply because credit was earned in a higher-numbered course. For example, a student with credit for or Department Approved GES Course may enroll for credit in the following courses:

GES 255	Engineering Statistics I	3

  If students have questions about the interpretation of this policy, they should consult the associate dean for academic programs or the director of Engineering Student Services prior to enrollment.

Transfer Credit, Advanced Placement and Credit by Examination

The following policies apply to the transfer of credit by entering transfer students, to the transfer of credit that was earned while concurrently enrolled at The University of Alabama, to the transfer of credit earned as a transient student at another institution and to the transfer of credit from other divisions of The University of Alabama.

- In order for credit to be transferred, courses completed at other institutions must be equivalent as nearly as possible to courses taught at The University of Alabama.
- In the College of Engineering, grades of D will not be admissible if the grade was earned in a course that is a prerequisite to another course required for the student's degree program.
- The maximum amount of credit transferable from two-year institutions is 64 semester hours.

Transfers from Other University of Alabama Divisions

Credit that another division of the University previously accepted for transfer from another institution will be reevaluated by the College of Engineering when a student transfers into the College from within the University.

Undergraduate Students in Graduate Courses

Undergraduate students may be permitted to enroll in graduate courses if they have senior standing and at least a B average for work attempted at The University of Alabama.

Faculty

Instructors

Cooper, Steven M.

Monk, Bridgett J.

Stogner, Claude R.

Tamondong, Virginia B.

Wood, Sandra A.

Assistant Professor

Graham, C. Bryan

Jordan, Wndell E.

Dean

Karr, Charles L.

Associate Dean

Wiest, John M.

Whitaker, Kevin W.

Director

Nancy Holmes

Roy T. Gregg Jr.

Lawrence K. Hill

Mike Rhiney

Gregory L. Singleton

Chief Mechanician

Ken L. Dunn

Coordinator Student Recruitment

Lynsey Dill

Events Coordinator

Carol Sanders

Communication Specialist Senior

Adam Jones

Professor Emeritus

Bailey, J. Earl

Ball, John E.

Bradt, Richard C.

Brown, Jack C.

Brown, Robert C., Jr.

Carden, A. Eugene

Carroll, Chester C.

Chen, Der-San

Clements, William C., Jr.

Doughty, Julian O.

Dudgeon, James E.

Evces, Charles, R.

Gambrell, Samuel C., Jr.

Hansen, John P.

Harrisberger, Lee

Haynes, Charles D.

Henry, Harold R.

Hill, James L.

Houts, Ronald C.

Jordan, William D.

Kallsen, Henry A.

Kavanaugh, Steve

McDuff, Odis P.

McKay, Gordon B.

Mjosund, Arne

Mott, Harold

Pimmel, Russell L.

Reinhard, Erwin A.

Schrodt, Verle N.

Walters, James V.

Wang, George C.

Webb, William E.

Webster, Dennis B.

Weeks, George E.

Wilson, Howard B., Jr.

Dean Emeritus

Barfield, Robert F.

Lear

Professor Emerita

Chen, Hui-Chuan "Hannah"

Associate Dean Emeritus

Griffin, Robert A.

Associate Professor Emeritus

Hollub, Raymond M.

Merritt, Thomas Wayne, Jr.

Planz, Edward J.

Associate Professor Emerita

McGowin, Martha

Reichhold–Shumaker Professor Emeritus

McKinley, Marvin D.

Research Professor Emeritus

Stefanescu, Doru M.

Aerospace Engineering and Mechanics (AEM) Courses

AEM 120. Aerospace Science For Educators. 4 sem. hrs.
Students develop meaningful understanding and use of engineering and science knowledge and critical-thinking skills and come to appreciate engineering and science as part of the daily life of a scientifically literate professional.

AEM 121. Intr. to Aerospace Eng. I. 2 sem. hrs.
To survey aerospace history, discuss pertinent topics and introduce basic concepts that promote an understanding of aerospace engineering and the profession.
Prerequisite(s) with concurrency: MATH 112.

AEM 201. Statics. 3 sem. hrs.
Forces and couples and resultants of force systems, free-body diagrams, equilibrium, and problems involving friction; and centroids, center of gravity, and distributed forces.
Prerequisite(s): MATH 125 or MATH 145; and PH 105 and ENGR 151.

AEM 249. Algorithm Devl Implementation. 2 sem. hrs.
Algorithm development, numerical solution of engineering problems, and structured problem solving in C++.
Prerequisite(s) with concurrency: MATH 125 and MATH 145.

AEM 250. Mechanics Of Materials I. 3 sem. hrs.
Concepts of stress and strain; analysis of stresses and deformation in bodies loaded by axial, torsional, and bending loads; combined loads analysis; statically indeterminate members; thermal stresses; columns; and thin-walled pressure vessels.
Prerequisite(s): MATH 126 or MATH 146 and AEM 201.

AEM 251. Mechanics Of Materials I Lab. 1 sem. hr.
Mechanical tests of metallic and nonmetallic materials in the elastic and inelastic ranges; use of materials testing for acceptance tests, for the determination of properties of materials, and for illustration of the validity of assumptions made in mechanics of materials.
Prerequisite(s) with concurrency: AEM 250.

AEM 264. Dynamics. 3 sem. hrs.
Kinematics of particles and rigid bodies, Newton's laws of motion, and principles of work-energy and impulse-momentum for particles and rigid bodies.
Prerequisite(s): MATH 126 or MATH 146; and AEM 201.

AEM 311. Fluid Mechanics. 3 sem. hrs.
Fluid statics, application of conservation laws to simple systems, dimensional analysis and similitude, and flow in open and closed conduits.
Prerequisite(s): MATH 227 or MATH 247; and AEM 201.

AEM 313. Aerodynamics I. 3 sem. hrs.
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 311 and AEM 264
Prerequisite(s) with concurrency: MATH 238.

AEM 314. Aircraft Performance. 3 sem. hrs.
Aircraft performance parameters, including static stability criteria.
Prerequisite(s): AEM 264 and AEM 349
Prerequisite(s) with concurrency: AEM 349 and AEM 264.

AEM 341. Aircraft Structural Analysis. 3 sem. hrs.
Methods of analyzing stressed skin structures of the types that are typically found in aircraft, missiles and space vehicles. Unsymmetrical bending and bending and twisting of multiple cell structures are also covered.
Prerequisite(s): AEM 249 and AEM 250.

AEM 349. Engineering Analysis. 4 sem. hrs.
Elements of analytical and numerical analysis with engineering applications including, but not limited to, differential equations, linear algebra, root-finding, Gaussian elimination, and Runge-Kutta integration.
Prerequisite(s): MATH 237 and MATH 238 and AEM 249.

AEM 368. Flight Dynamics & Control I. 4 sem. hrs.
Fundamentals of airplane aerodynamics and performance, static trim, 6-DOF equations of motion, and flight dynamics, stability and control.
Prerequisite(s): AEM 313 and AEM 349.

AEM 402. Integrated Aerospace Design I. 3 sem. hrs.
Preliminary design techniques for an aerospace system.
Prerequisite(s): AEM 341 and AEM 368 and AEM 413
Prerequisite(s) with concurrency: AEM 408.

AEM 404. Integrated Aerospace Design. 3 sem. hrs.
Preliminary and detailed design of aircraft and space vehicles, including weight and balance, power plant selection, exterior layout, performance, stability, and control. Involves group efforts on selected projects.
Prerequisite(s): AEM 402.

AEM 408. Propulsion Systems. 3 sem. hrs.
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): AEM 413.

AEM 413. Aerodynamics II. 3 sem. hrs.
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 313 and ME 215.

AEM 414. Experimental Aerodynamics. 3 sem. hrs.
This course provides a laboratory counterpart to concepts discussed in aerodynamics and fluid mechanics. Course topics include statistical and uncertainty analysis techniques, design of experiments, computer-based data-acquisition, sensors for fluid mechanic measurements, and aerodynamic measurement techniques and facilities.
Prerequisite(s): AEM 313.

AEM 416. Helicopter Theory. 3 sem. hrs.
Critical examination of the propulsive airscrew, including induced velocity relations, flow patterns, and similarity. Practical applications are approached through existing theory and practice.
Prerequisite(s): MATH 238 and AEM 264 and AEM 311.

AEM 420. Computational Fluid Dynamics. 3 sem. hrs.
Introduction to basic mathematical concepts and engineering problems associated with numerical modeling of fluid systems. Application of the state of the art numerical models to engineering problems. Fundamentals of Finite Difference and Finite Volume Methods and their applications in fluid dynamics and heat transfer problems will be covered.
Prerequisite(s): AEM 311 and AEM 349 and MATH 238.

AEM 428. Space Proplusion. 3 sem. hrs.
This course introduces the student to descriptions and analyses of space and launch-vehicle propulsion. Topics covered include advanced schemes such as nuclear, solar and laser propulsion; power cycles; and tether systems.
Prerequisite(s): AEM 408
Prerequisite(s) with concurrency: AEM 408.

AEM 451. Structural Design & Testing. 4 sem. hrs.
Design of tension, compression bending, torsion, and stiffened panel members; experimental and analytical investigations involving static and dynamic structural behavior. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 341 and ECE 320
Prerequisite(s) with concurrency: AEM 461.

AEM 452. Composite Materials. 3 sem. hrs.
Introduction to the governing principles of the stiffness and strength of unidirectional and multidirectional fiber composite materials.
Prerequisite(s): AEM 250; and AEM 341 or CE 331 or ME 350.

AEM 461. Computational Methods for Aerospace Structures. 3 sem. hrs.
Development of the fundamentals of the finite-element method from matrix and energy methods. Use of the finite-element method for detailed design of aerospace structures. Modeling techniques for static and dynamic analyses.
Prerequisite(s): MATH 227 or MATH 247, AEM 341 and AEM 349.

AEM 468. Flight Dynamics & Control II. 4 sem. hrs.
Linear equations of motion, dynamic response, state-space methods, fundamentals of classical and modern control theory; flying and handling qualities design criteria; stability augmentation and control augmentation.
Prerequisite(s): AEM 368.

AEM 469. Orbital Mechanics. 3 sem. hrs.
Introduction to engineering application of celestial mechanics; high-speed, high-altitude aerodynamics; and other fields related to the contemporary problems of space vehicles. Fundamentals of applied dynamics, nomenclature of space flight, space environment and solar system, and two-body orbits. Kepler's laws, coordinate transformations, and related studies.
Prerequisite(s): MATH 238 and AEM 264.

AEM 470. Mechanical Vibrations. 3 sem. hrs.
Free and forced vibrations, both undamped and damped. Systems with many degrees of freedom are formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): AEM 264 and MATH 238 and AEM 250.

AEM 471. Fundamentals Of Acoustics. 3 sem. hrs.
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.
Prerequisite(s): MATH 238 and PH 106 and ECE 320.

AEM 480. Intro Computer Fluid Dynamics. 3 sem. hrs.
Analyses of aerodynamic flow problems using a digital computer.
Prerequisite(s): AEM 311 and AEM 349.

AEM 491. Special Problems. 1-6 sem. hr.
Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 492. Special Problems. 3 sem. hrs.
Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 495. Senior Seminar. 2 sem. hrs.
Selected topics from recent developments in the aeronautical and space engineering fields. There are visiting lecturers and extensive student participation. Several nontechnical topics of immediate interest to seniors are explored. Each student must complete a personal resume. Writing proficiency is required for a passing grade in this course.
Prerequisite(s) with concurrency: AEM 402.

Chemical and Biological Engineering (CHE) Courses

CHE 125. Intro To Chemical Engineering. 1 sem. hr.
An introduction to the chemical engineering profession, its history and its career-enabling potential. The course contains selected topics, plant visits and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical and petroleum industries. Offered fall semester only.

CHE 225. Chem Biol Engr Soph Honors. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 254. Che Calculations. 4 sem. hrs.
Study of physical and chemical processes and chemical reactions; material and energy balance calculations for single-phase and multiphase systems; simultaneous energy and material balances.
Prerequisite(s): CHE 125 and CH 101 or CH 117; and MATH 125 or MATH 145
Prerequisite(s) with concurrency: CHE 125.

CHE 255. Chem Engr Thermodynamics. 4 sem. hrs.
Chemical calculations using the first and second laws of thermodynamics, including chemical and phase equilibria, multiphase reacting systems, steady-state and non-steady-state material and energy balances. Computer proficiency is required for a passing grade in this course.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146.

CHE 304. Fluid Flow Operations. 3 sem. hrs.
Equations of momentum and energy transport and their applications to the analysis of fluid process behavior, filtration, fluidization and metering of fluids. Offered fall semester only.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146
Prerequisite(s) with concurrency: CHE 254.

CHE 305. Separation Processes. 3 sem. hrs.
Unified approach to the basic calculations and fundamental concepts involved in the design of equilibrium-stage separations processes and continuous contacting equipment. Computer proficiency is required for a passing grade in this course. Offered spring semester only.
Prerequisite(s): CHE 255.

CHE 306. Heat Transfer Operations. 3 sem. hrs.
Study of heat transfer and its application in the design of specific processes and process equipment. Offered fall semester only.
Prerequisite(s): CHE 254 and CHE 304
Prerequisite(s) with concurrency: CHE 304.

CHE 319. Basic Chem Eng Lab. 2 sem. hrs.
Basic chemical engineering measurements and calculations: temperature, pressure, thermal transport rates, fluid flow rates and energy losses, material properties and specifications. Offered spring semester only.
Prerequisite(s): CHE 255.

CHE 320. Operations Laboratory. 4 sem. hrs.
Operations of chemical engineering. Course includes problems and reports based on performance tests. Writing proficiency within this discipline is required for a passing grade in this course. Offered summer semester only.
Prerequisite(s): CHE 305 and CHE 306.

CHE 324. Transport Phenomena. 3 sem. hrs.
Development of the conservation equations for mass, momentum and energy with application to steady-state and transient chemical processes. Computer proficiency is required for a passing grade in this course. Offered fall semester only.
Prerequisite(s): MATH 238 and CHE 255
Prerequisite(s) with concurrency: MATH 238 and CHE 255.

CHE 325. Chemical Honors Forum. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 354. Chemical Reactor Design. 3 sem. hrs.
Reaction rate equations and comparisons with experimental data; use of rate information for the design of chemical reactors.
Prerequisite(s): CHE 255 MA 238.

CHE 412. Polymer Materials Engineering. 3 sem. hrs.
Introduction to the manufacture, processing and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers.
Prerequisite(s): CH 102 or CH 118.

CHE 418. Tissue Engineering. 3 sem. hrs.
Tissue Engineering is an emerging dynamic, experimental science in which engineering and biological science principles are used to develop techniques for improving or restoring the structure and function of tissue.

CHE 425. Chemical Honors Forum. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 440. Health Safety Chem Process Ind. 3 sem. hrs.
Health and safety in the chemical process industry that will introduce chemical engineering students to health and safety, regulations and the designs and procedures to meet them in the chemical process. Advanced topics will also be introduced, including current relevant topics such as recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis.
Prerequisite(s): CH 102 or CH 118.

CHE 445. Intro Biochemical Engineering. 3 sem. hrs.
Study of biological processes; application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth and metabolic processes.
Prerequisite(s): CH 231.

CHE 481. Cheml Process Design I. 3 sem. hrs.
Technical and economic design of chemical processes and plants. Offered fall semester only.
Prerequisite(s): CHE 255.

CHE 482. Cheml Process Design II. 3 sem. hrs.
Optimal design of chemical processes and plants. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semester only.
Prerequisite(s): CHE 481.

CHE 491. Special Problems. 1-3 sem. hr.
Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 492. Special Problems. 1-3 sem. hr.
Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 493. Process Dynamics & Control. 3 sem. hrs.
Development of model equations that describe the unsteady-state behavior of chemical processes; automatic control design and analysis emphasizing time-domain methods; introduction to digital computer control. Offered fall semester only.
Prerequisite(s): CHE 255 and MATH 238.

CHE 495. Undergrad Honors Seminar. 1 sem. hr.
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 496. Undergrad Honors Seminar. 1 sem. hr.
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 498. Honors Special Problems. 1-3 sem. hr.
Credit is based on the amount of work undertaken. Research or practical study in a chemical engineering area, the outcome of which is a definite result presented in a report, paper, or manuscript. Instructor permission required.

CHE 499. Honors Special Problems. 1-3 sem. hr.

Civil, Construction and Environmental Engineering (CE) Courses

CE 121. Intro Civil Constrctn Envir Eg. 1 sem. hr.
Introduce the student to the areas of professional, civil and environmental engineering practices with exposure to faculty members specializing in each area, solving typical problems in each professional area, learning of the activities of service organizations, and the responsibilities of professional practice.

CE 220. Society Infrastruct & Environm. 3 sem. hrs.
Permitting, environmental impact statements and other environmental issues associated with human activities and engineering projects.

CE 260. Civil & Construction Surveying. 0-2 sem. hrs.
Precise measurement of lengths, angles, areas, and elevations in geodetic systems; computation of construction control, including highway alignment and land areas.
Prerequisite(s): (ENGR 161 or ENGR 171 or ART 131) and Math 115 or (Math 112 and Math 113) or ACT 30 or SAT 680 or PLMA 440 or PLAC 565.

CE 262. Civil & Constructn Engr Matls. 0-3 sem. hrs.
Introduction to the engineering properties of structural materials, including steel, wood, aggregate, concrete and asphalt, including experimental testing procedures and interpretation of results.
Prerequisite(s): AEM 201 or ESM 201; and
Prerequisite(s) with concurrency: AEM 250.

CE 270. Climate and Climate Change: European Alps. 4 sem. hrs.
The course focuses on hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA.

CE 320. Intro Environmental Engineerg. 3 sem. hrs.
Introduction to the scientific and engineering principles needed to analyze and solve environmental engineering problems, and lab experience in the practice of environmental engineering related to air, water and waste water management. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 101 OR CH 117 min grade of C-
Prerequisite(s) with concurrency: AEM 311 and CHE 304.

CE 331. Intro to Structural Eng. 3 sem. hrs.
Introduction and principles of structural analysis of determinate and indeterminate structures. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250 and CE 262.

CE 340. Geotechnical Engineering. 4 sem. hrs.
Static and dynamic interaction of soil and water; theories of stress distribution, consolidation, strength and failures; stability of soil structures.
Prerequisite(s): CE 262 and AEM 250.

CE 350. Intro. to Transportation Eng. 3 sem. hrs.
An introduction to different modes of transportation with emphasis on roadway and traffic engineering. Topics include transportation economics and planning, highway geometric and pavement design, drainage, construction, traffic control devices, traffic operations, and management and highway capacity analysis.
Prerequisite(s): CE 260 GES 255.

CE 366. Introduction to Construction Engineering. 3 sem. hrs.
Applying engineering economic principles to construction and engineering problems; construction management processes and methods in planning, scheduling, and monitoring engineering projects.
Prerequisite(s): CE 262.

CE 378. Water Resources Engineering. 3 sem. hrs.
Mechanics of steady and unsteady flow in closed and open conduits, hydrology; water supply and wastewater disposal. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Dynamics (AEM 264) and Fluid Mechanics (AEM 311); or Fluid Flow Operations (ChE 304).

CE 401. Civil Eng. Des. Prj. Site Dev. 4 sem. hrs.
Use of software to design projects in teams, prepare construction drawings and deliver engineering reports. This class is normally taken during the last term on campus. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): CE 320 with a minimum grade of C- And CE 350 with a minimum grade of C- And CE 378 with a minimum grade of C- And Six (6) credit hours of 400- or 500- level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 424 or CE 524 CE 425 or CE 525 CE 427 or CE 527 CE 442 or CE 542 CE 451 or CE 551 CE 457 or CE 557 CE 459 or CE 559 CE 475 or CE 575 CE 485 or CE 585.

CE 402. Constr. Eng. Proj. Site Dev. 4 sem. hrs.
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): CE 340 and CE 366 and (CE 320 or CE 350 or CE 378) and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ Concurrency: At least two of the following construction design-designated (CD) courses: CE 442 or CE 542 CE 457 or CE 557 CE 459 or CE 559 CE 461 or CE 561 CE 485 or CE 585.

CE 403. Civil Eng. Prj. Bld. Design. 4 sem. hrs.
Students use software to design building projects in teams, prepare construction drawings and deliver engineering reports. Required for minor in architectural engineering. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Prereq: CE 331 and CE 340 and CE 366 and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ Concurrency: At least two of the following design-designated (D) electives: CE 433 CE 434 CE 436 or CE 536 CE 437 or CE 537 CE 438 or CE 538 CE 439 or CE 539 CE 444 or CE 544 CE 462 or CE 562.

CE 404. Constr. Eng. Prj. Bldg. Des. 4 sem. hrs.
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Prereq: CE 331 and CE 340 and CE 366 and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ concurrency: At least two of the following construction design-designated (CD) courses: CE 433 CE 434 CE 436 or CE 536 CE 437 or CE 537 CE 438 or CE 538 CE 439 or CE 539 CE 444 or CE 544 CE 462 or CE 562.

CE 414. Information Systems Design. 3 sem. hrs.
An overview of management information systems (MIS). The course will focus on the practical aspects, applications and methodology or MIS, particularly from the construction engineer's perspective. Information design methodology and building information modeling (BIM) will be covered in detail.
Prerequisite(s): CE 366.

CE 417. Advanced Project Management. 3 sem. hrs.
This is an engineering management course designed to introduce students to the functions of project engineering and managers. It details the processes of planning and controlling project scope time and cost.
Prerequisite(s): CE 366 or IE 203
Prerequisite(s) with concurrency: GES 255.

CE 418. Engineering Management. 3 sem. hrs.
An introduction to management principles and the management functions of planning, organizing, motivating and controlling. Management of engineers in research, design, manufacturing/construction and quality will be studied.
Prerequisite(s): CE 366.

CE 422. Solid And Hazardous Waste Mgt. 3 sem. hrs.
Engineering design and regulatory requirements for the collection, storage, recycling, treatment and disposal of solid wastes.
Prerequisite(s): CE 320.

CE 423. Hazrdous Chem Releasd to Envir. 3 sem. hrs.
Chemical fate and transport in the environment. Frequency and magnitude of accidents involving hazardous materials. Effects of these releases on the community.
Prerequisite(s): CE 320 and CE 378 and CE 425.

CE 424. Water And Wastewater Treatment. 3 sem. hrs.
Physical, chemical and biological principles and design of municipal water and wastewater treatment units.
Prerequisite(s): CE 320.

CE 425. Air Quality Engineering. 3 sem. hrs.
This is an introductory course in Air Quality Engineering. We have to major foci. The first is to understand and evaluate our air resources and air quality (as related to human and environmental health) in terms of fundamental principels and design processes. The second is to introduce the student to a varity of air pollution issues and engineered treatment processes.
Prerequisite(s): AEM 311 or CHE 304; and CE 320.

CE 427. Storm Water Management. 3 sem. hrs.
Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics, Selection and design of controls; regulations.
Prerequisite(s): CE 378 and CE 475.

CE 430. Design of Masonry Structures. 3 sem. hrs.
Design of un-reinforced and reinforced masonry walls, columns, pilasters, beams and lintels.
Prerequisite(s): CE 331.

CE 432. Adv Structural Analysis. 3 sem. hrs.
Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.
Prerequisite(s): CE 331.

CE 433. Reinf Concrete Struct I. 3 sem. hrs.
Concrete materials, placement of concrete and theory and design of reinforced beams, girders, slabs, columns and footings.
Prerequisite(s): CE 331.

CE 434. Structural Steel Design I. 3 sem. hrs.
Theory and design of structural steel members and their connections.
Prerequisite(s): CE 331.

CE 436. Wood Structural Design. 3 sem. hrs.
Modern timber engineering: design of beams, columns, trusses and floor systems.
Prerequisite(s): CE 331.

CE 437. Reinforcd Concrete Struct II. 3 sem. hrs.
Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slap-on-grade and retaining walls.
Prerequisite(s): CE 433.

CE 438. Struct Steel Design II. 3 sem. hrs.
Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multistory buildings, highway bridges and light-gauge steel structures.
Prerequisite(s): CE 434.

CE 439. Design of Masonry Structures. 3 sem. hrs.
Design of un-reinforced masonry walls, columns, pilasters, beams and lintels.
Prerequisite(s): CE 331.

CE 442. Waste Containmnt Facilty. 3 sem. hrs.
Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics and aspects of landfill design.
Prerequisite(s): CE 340 and CE 320.

CE 444. Foundation Engineering. 3 sem. hrs.
Analysis and design of soil foundation systems.
Prerequisite(s): CE 340.

CE 451. Geometrc Design Roadways. 3 sem. hrs.
Application of the principles of geometric design: alignment, vertical control, drainage, traffic control, interchanges and intersections. Design projects will be prepared to illustrate standard techniques.
Prerequisite(s): CE 350.

CE 452. Traffic Safety Transptn Secur. 3 sem. hrs.
Introduction to traffic safety techniques: site identification, data gathering and analysis, accident reconstruction, safety treatment selection, resource prioritization, and design projects.
Prerequisite(s): CE 350.

CE 454. Urban Transportation Planning. 3 sem. hrs.
The course will provide a foundation in urban transportation planning, including an introduction to the planning process, software associated with transportation modeling and conducting transportation planning and traffic impact studies.
Prerequisite(s): CE 350.

CE 456. Transportation System Anyls. 3 sem. hrs.
This course integrates the basic concepts and tools of systems analysis, including those from microeconomics, optimization, project evaluation and decision-making into the context of transportation planning and management.
Prerequisite(s): CE 350.

CE 457. Pavemnt Design/Construct. 3 sem. hrs.
The thickness design of base, subbase, asphalt and concrete layers for highway pavements, including both design and construction aspects.
Prerequisite(s): CE 350.

CE 458. Traffic Engineering. 3 sem. hrs.
Vehicle operating characteristics, traffic flow, geometric design of road and intersections, and methods of traffic control.
Prerequisite(s): CE 350.

CE 459. Pavement Design and Rehabilitation. 3 sem. hrs.
This course covers two areas concerning care of existing highway asphalt and concrete pavements. Major maintenance includes overlay design, additional drainage, recycling and slab repair. Routine maintenance includes distress surveys, pothole repair, and crack and joint sealing.
Prerequisite(s): CE 350 or CE 366.

CE 460. Front End Planning. 3 sem. hrs.
Principles and applications for effective, early planning of capital facilities including: finance, economics decision-making, risk management, team alignment and front end planning processes and tools.
Prerequisite(s): CE 366.

CE 461. Horizontl Construction Methods. 3 sem. hrs.
Introduction to horizontal construction equipment and methods, design of horizontal construction systems and construction operation analysis and simulation.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 340.

CE 462. Vertical Construction Methods. 3 sem. hrs.
Introduction to vertical construction equipment and methods, design of vertical construction systems and construction operation analysis and management processess.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 331.

CE 463. Construction Cost Estimating. 3 sem. hrs.
Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tools and techniques, contingency planning, and relationship to contract types and project execution strategies.
Prerequisite(s): CE 366.

CE 464. Safety Engineering. 3 sem. hrs.
An introduction to safety management and accident prevention, including state and federal laws related to general and construction projects. Topics include accident theories, safety regulations, Construction Safety act, hazards and their control, human behavior and safety and safety management.
Prerequisite(s): CE 366GES 255 and CE 366.

CE 467. Constr. Accounting & Finance. 3 sem. hrs.
Financial management of construction projects. Topics include alternative selection, life-cycle analysis, applied financial management techniques, insurance/ indemnification, risk management and tax implications.
Prerequisite(s): CE 366.

CE 468. Construction Scheduling. 3 sem. hrs.
The management structure of construction companies and the laws, regulations, practices, tools, and processes used in planning, scheduling, and monitoring construction projects. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): CE 366.

CE 470. Water Resources in the European Alps. 4 sem. hrs.
The course focuses on statistical hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of statistical software to analyze hydrologic datasets, the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA.

CE 475. Hydrology. 3 sem. hrs.
Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology and hydrologic simulation. Includes a class project with application to flood control, water supply and multipurpose projects.
Prerequisite(s): CE 378.

CE 480. Forensic Engineering. 3 sem. hrs.
When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.
Prerequisite(s): AEM 250.

CE 481. Legal Asp. of Eng and Const. 3 sem. hrs.
Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CE 262 and CE 301 or CE 320 or CE 324 or CE 331 or CE 340 or CE 350 or CE 366 or CE 378.

CE 484. Exp. Design & Field Sampling. 3 sem. hrs.
Experimental design, sensitivity analyses, water sampling and flow monitoring. Receiving water chemical reactions. Field investigations.
Prerequisite(s): CE 320 and GES 255.

CE 485. Const. Site Erosion Control. 3 sem. hrs.
Nature and magnitude of erosion problems. Erosion plan development. Rainfall energy and erosion predictions. Sediment transport in urban areas. Channel and slope stability. Sedimentation and other controls.
Prerequisite(s): CE 378.

CE 491. Special Problems. 1-3 sem. hr.
Credit is based on the amount of work undertaken. Analysis and/or design in any phase of civil engineering. The course is intended to take care of needs not covered by regularly offered courses.

Computer Science (CS) Courses

CS 102. Microcomputer Applications. 3 sem. hrs.
Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management. (Credit for this course will not be applied to the requirements for a computer science degree).

CS 104. The Science of Programming. 3 sem. hrs.
This course is designed for students who wish to have some programming experience before entering CS150. Topics include: literals, variables, expressions, functions, curried functions, objects, writing and saving programs, organizing programs and data.
Prerequisite(s): Permission of Instructor
Prerequisite(s) with concurrency: MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

CS 120. Business Programming I. 3 sem. hrs.
An introduction to programming. The topics include procedural information enabled problem formulation, design and development of business computer solutions. This course concentrates on the construction and testing of individual programs.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125.

CS 121. The Discipline of Computing. 1 sem. hr.
An introduction to the discipline of computing designed for students who are considering a major or minor in computer science.
Prerequisite(s): MATH 112 minimum Grade of C- OR higher OR UA Placement Mathematics 380
Prerequisite(s) with concurrency: MATH 112.

CS 150. Programming I. 2 sem. hrs.
An introductory course that teaches programming and program development. The emphasis of the course is the rapid acquisition of programming, testing, debugging and system skills. The course utilizes Python, a modern object-oriented language whose clean and consistent syntax and semantics provide a simpler entry for beginning programmers.
Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 146.

CS 160. Computer Science Concepts. 1 sem. hr.
Introductory programming laboratory that focuses on basic problem solving concepts.
Prerequisite(s): Credit for MATH 112 or placement into MATH 115 or above.

CS 202. Intro to the Internet. 3 sem. hrs.
Introduces the student to the fundamentals of the internet and web page design and development. Students will be shown how to use the internet, text editors, and build basic web pages using HMTL coding. This will include, but not be limited to hyperlinks, tables, basic CSS styling, frames and forms. The student will also be given demonstrations and assignments using a WYSIWYG editor.
Prerequisite(s): CS 102 or CS 150 or ENGR 103 or CBH 101.

CS 205. Web Site Design. 3 sem. hrs.
A course designed to teach website design principles and implementation techniques. This class is not cross-listed as a graduate course. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 202.

CS 220. Business Programming II. 3 sem. hrs.
This course builds on the concepts and expertise gained in data driven problem solving and computer programming. It explores problem formulation, solution designing and object-oriented construction of business applications. This course concentrates on problem decomposition, design, construction and testing of individual programs. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 120 or CBH 101.

CS 250. Programming II. 2 sem. hrs.
A second course in programming that builds upon the concepts covered in CS 150. The emphasis is to improve and solidify program development skills as well as to introduce students to multimedia programming. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 150.

CS 260. Foundations of Comp Science. 3 sem. hrs.
An introduction to the science of Computer Science. Topics include: introduction to complexity, O(n) searching, sorting, design strategies, problem solving, arrays, singly-linked lists, stacks, and creative and searching binary search trees.
Prerequisite(s): CS 150 and (CS 160 or ECE 285).

CS 285. Microcomputer Appl II. 3 sem. hrs.
Use of spreadsheets and other environments to build business and scientific applications. Course includes development of problem-solving skills and an introduction to the object-oriented paradigm. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or CBH 101 or ENGR 103.

CS 302. Computerized Database Systems. 3 sem. hrs.
An introduction to commercial database packages. Students will gain familiarity with both creating and using standard database software packages to solve real-world problems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or CBH 101 or ENGR 103.

CS 315. Software Engineering. 3 sem. hrs.
Introduction to software engineering: the software crisis, program life cycle, software systems analysis techniques, software modeling, theory and practice of design, program testing methodologies, programmer team organization, and program verification and synthesis.
Prerequisite(s): CS 260 and CS 250 or ECE 285.

CS 325. Software Develmnt Systms. 3 sem. hrs.
Object-oriented programming in C++ under the Unix OS.
Prerequisite(s): CS 260 or CBH 102.

CS 340. Legal & Ethical Issues in Comp. 3 sem. hrs.
By way of case study, the course finds and frames issues related to legal and ethical issues in computing. Topics include privacy, free speech, intellectual property, security, and software reliability and liability issues. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or ENGR 103 or CBH 101.

CS 345. Adv. Legal & Ethical Issues. 3 sem. hrs.
Using case study and fact pattern analysis, students will find and frame legal and ethical issues presented by past, contemporary and emerging technology. Students will engage in service learning to enhance their sense of civic responsibility.
Prerequisite(s): CS 340.

CS 350. Programming III: Java. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the Java programming language. The emphasis is on building larger projects using production languages and development environments. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 250 or ECE 285.

CS 351. Programming III: C++. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the C++ programming language. The emphasis is on building larger projects using production languages and development environments. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 250 or ECE 285.

CS 352. Programming III: C. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the C programming language. The emphasis is on building larger projects using production languages and development environments.
Prerequisite(s): CS 250 or ECE 285.

CS 357. Data Structures. 3 sem. hrs.
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching and dynamic storage allocation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 325
Prerequisite(s) with concurrency: CS 325.

CS 360. Data Structures & Algorithms. 4 sem. hrs.
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching and dynamic storage allocation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 301; and CS 250 or ECE 285; and CS 260;
Prerequisite(s) with concurrency: MATH 302 and CS 350 and CS 351 and CS 352.

CS 375. Programg Using Visual Environm. 3 sem. hrs.
Design and construction of programs using the Visual Basic programming environment. This course is designed for students majoring in MIS.
Prerequisite(s): MATH 112 or MATH 115; and CS 250 or CBH 102.

CS 385. Prototyping In Visual Environm. 3 sem. hrs.
Design and construction of standard user interfaces using a visual programming environment. Course includes the prototyping of several standard user interface mechanisms. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 285.

CS 391. Special Topics. 3 sem. hrs.
Special topics in computing.

CS 395. Competitive Programming I. 1 sem. hr.
A study of techniques and practices that promote success in competitive programming contests.

CS 396. Competitive Programming II. 1 sem. hr.
Advanced study of techniques and practices that promote success in competitive programming contests. Must have 3 hours of credit in CS 395.
Prerequisite(s): CS 395.

CS 403. Programming Languages. 3 sem. hrs.
Formal study of programming language specification, analysis, implementation, and run-time support structures; organization of programming languages with emphasis on language constructs and mechanisms; and study of non-procedural programming paradigms.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 407. Software Interface Desgn. 3 sem. hrs.
Basic concepts of the human-computer interface, including human diversity, user mental models, menus, command languages, documentation, error messages, anthropomorphisms, and software psychology.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 and CS 357 or CS 360; and ECE 383.

CS 415. Software Design & Development. 3 sem. hrs.
Object-oriented design and development using UML and Java, design patterns, and architectural patterns.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 357 or CS 360; and ECE 383.

CS 416. Testing and Quality Assurance. 3 sem. hrs.
Study of verification & validation and related processes. Topics include techniques and tools for software analysis, testing, and quality assurance.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383.

CS 417. Requirements Engineering. 3 sem. hrs.
Study of requirements engineering and it's phases. Topics include formal, semi-formal, and informal paradigms for elicitation, documentation, and management of software system requirements.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383.

CS 420. Software Mainten. & Evolution. 3 sem. hrs.
Study of software and its phases. Topics include techniques and tools for concept location, impact analysis, actualization, refactoring, and validation.
Prerequisite(s): CS 315 and CS 350 or CS 351; and CS 360 and ECE 383.

CS 426. Intro Operating Systems. 3 sem. hrs.
Study of basic operating system concepts with an emphasis on memory, processor, device, and information management.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352; and CS 360 and ECE 383; or CS 325 and CS 357 and ECE 383.

CS 428. Computer Security. 2 sem. hrs.
An examination of computer security concepts, such as cryptographic tools, user authentication, access control, database security, intrusion detection, malicious software, denial of service, firewalls and intrusion prevention systems, trusted computing and multilevel security, buffer overflow, software security, physical and infrastructure security, human factors, and security auditing.
Prerequisite(s): CS 426.

CS 434. Compiler Construction. 3 sem. hrs.
Syntax and semantics of procedure-oriented languages and translation techniques used in their compilation; includes computer implementation.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 435. Computer Graphics. 3 sem. hrs.
Fundamentals of interactive 3-D computer graphics, including modeling and transformations, viewing, lighting and shading, mapping methods, graphics pipeline, shading languages, and interaction techniques. Programming projects are required.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 438. Comptr Commcn Networks. 3 sem. hrs.
The study of the issues related to computer communications. Topics include physical topologies, switching, error detection and correction, routing, congestion control, and connection management for global networks (such as the Internet) and local area networks (such as Ethernet). In addition, network programming and applications will be considered.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 440. Ethical Societal Issues. 3 sem. hrs.
The course looks at social, legal, and ethical aspects of computing, and presents the student with an overall framework of computing-related disciplines and culture. Includes computer crime issues (hackers, viruses, worms); other legal issues (software patents, copyrights, product liability, etc.); and computing risks and privacy implications.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 457. Data Base Managm Systems. 3 sem. hrs.
Constituent parts of database management (design, creation, and manipulation of databases), including the conceptual and relational data models, SQL, normalization and security. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 460. Intro to Autonomous Robotics. 3 sem. hrs.
Issues involved with the implementation of robot control software including motion, kinematics, simulation testing, sensor incorporation and unmodeled factors.
Prerequisite(s): CS 426.

CS 465. Artificial Intelligence. 3 sem. hrs.
The advanced study of topics under the umbrella of artificial intelligence including problem solving, knowledge representation, planning and machine learning.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 466. Information Systems. 3 sem. hrs.
Information Systems
Prerequisite(s): CS 102 and six (6) hours of other CS courses.

CS 470. Intro Computer Algorithms. 3 sem. hrs.
Construction of efficient algorithms for computer implementation.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 475. Formal Languag & Machine. 3 sem. hrs.
Regular expressions and finite automata. Context free grammars and pushdown automata. Recursively enumerable languages and turing machine. The Chomsky hierarchy.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 491. Special Topics. 3 sem. hrs.
Formal courses that cover new and innovative topics in computer science and do not yet have their own course numbers. Specific course titles will be announced from time to time.
Prerequisite(s): CS 315; and CS 325 or CS 350 or CS 351 or CS 352; and CS 357 or CS 360; and ECE 383.

CS 492. Special Prob (Area). 1-3 sem. hr.
Reading and research course designed to meet the needs of individual students. This course cannot be used as a required 400-level computer science elective.

CS 495. Capstone Computing. 3 sem. hrs.
A culminating capstone project course that integrates the skills and abilities throughout the curriculum into a comprehensive design and development experience for computer science majors. Writing proficiency within this discipline is required for a passing grade in this course, and ethical issues are applied to the students' future professions.
Prerequisite(s): (CS 325 and CS 357); or (CS 350 or CS 351 or CS 352; and CS 315 and CS 360).

CS 497. Competitive Programming Techniques. 1 sem. hr.
Provides a unique opportunity to explore new problem solving techniques in a way that is not covered traditionally in the curriculum, helping students improve their software development skills.
Prerequisite(s): CS 360.

CS 499. Undergraduate Thesis Research. 3 sem. hrs.
Independent research and participation within a faculty member's research group. Writing proficiency within this discipline is required for a passing grade in this course. Permission of the supervising faculty member is required.
Prerequisite(s): CS 315; and CS 350 or CS 351; and CS 360 and ECE 383.

General Engineering Studies (ENGR) Courses

ENGR 103. Engineering Foundations. 3 sem. hrs.
Introductory course for students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, sketching, teaming, oral and written technical communication, and the design process.
Prerequisite(s): [(MATH 112 AND MATH 113) OR MATH 115)]OR MATH 125 or higher with concurrency
Prerequisite(s) with concurrency: MATH 125 or MATH 126 or MATH 145 or MATH 146.

ENGR 111. Engineering for the Future. 1 sem. hr.
An introduction to the discipline of engineering and what the future of the field will involve. Focus is on developing and understanding of the discipline, the contributions that the discipline will make to society in the future and career opportunities for students in the field.
Prerequisite(s): PLMA 310 OR Higher, PLAC 467 OR Higher, ACT 2 24 OR Higher, SAT 2 560 OR Higher OR Passed MATH 110 with C- or higher.
Prerequisite(s) with concurrency: MATH 112 and MATH 113 and MATH 115 and MATH 125 and MATH 126 and MATH 145 and MATH 146.

ENGR 131. Eng. Concepts & Design I. 1 sem. hr.
Introductory course for students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, teaming and the design process.
Prerequisite(s): (MATH 112 and MATH 113)OR MATH 115 OR PLMA 440 or higher OR PLAC 565 or higher OR ACT 2 30 or higher OR SAT 2 680 or higher.
Prerequisite(s) with concurrency: MATH 125 and MATH 126 and MATH 145 and MATH 146.

ENGR 141. Eng. Concepts & Design II. 1 sem. hr.
A second course for students that reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming and technical communication.
Prerequisite(s): ENGR 131.

ENGR 142. Accel. Eng. Concepts/Design. 1 sem. hr.
An accelerated course for students in all engineering disciplines that is open to students with AP Physics credit or initial placement into Calculus II or higher. With the completion of ENGR 142 with a grade of "C-" or higher, placement credit is also awarded for ENGR 131. The course reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming, and technical communication.
Prerequisite(s): AP Physics credit OR MATH 125.

ENGR 151. Fundamental Eng. Graphics. 1 sem. hr.
Focus is on the ability to use sketching as an effective communication tool within the field of engineering.
Prerequisite(s): MATH 112
Prerequisite(s) with concurrency: MATH 113 and MATH 115 and MATH 121 and MATH 125 and MATH 126 and MATH 145 and MATH 146.

ENGR 161. Small-Scale Eng. Graphics. 1 sem. hr.
Two-dimensional representations of multiviews, sections, and auxiliaries will be generated.
Prerequisite(s): ENGR 151.

ENGR 171. Large-Scale Eng. Graphics. 1 sem. hr.
Use of a commercial software package to produce engineering drawings such as multiviews, sections and auxillaries, isometric and oblique pictorials, dimensional drawings as well as simple topographical and property drawings, with an emphasis on large-scale applications.
Prerequisite(s): ENGR 151.

ENGR 191. Freshman Engineering Special Topics. 1-3 sem. hr.
To enrich UA's undergraduate education in the area of nanotechnology. The course is a low level freshman course that will cover simple introductory material on nanotechnology and its concepts, its environmental, economical, ethical and societal impacts on it. It consists of 7 modeuls: Introduction to nanotechnology & biotechnology, engineering applications of nanotechnology and biomedicine, seeing is believing and micro/nanofabrications, economics of nanotechnolgy and biotechnology, philosophy, ethics, science and engineering; nanotechnology, biotechnology and society; nanotechnology, biotechnology and environment.
Prerequisite(s): None.

Electrical and Computer Engineering (ECE) Courses

ECE 121. Introduction to Electrical and Computer Engineering. 1 sem. hr.
Introduction to electrical and computer engineering disciplines, specializations, the engineering design process, mathematics required for these disciplines, computer-based modeling and simulation tools, and professional responsibilities.
Prerequisite(s): MATH 110
Prerequisite(s) with concurrency: ECE 131 and ENGR 111.

ECE 225. Electric Circuits. 4 sem. hrs.
Physical concepts and mathematical techniques of circuit analysis; DC, transient, and sinusoidal steady-state analysis of circuits; Includes laboratory experiments.
Prerequisite(s): PH 106 and PH 126, MATH 227 and MATH 238.

ECE 285. Programing for Elec/Comp Eng. 2 sem. hrs.
Algorithm design, programming, test and debugging skills using the C programming language. Applications to engineering problem solving in electrical and computer engineering.
Prerequisite(s): MATH 125 or MATH 145; and CS 150
Prerequisite(s) with concurrency: CS 150.

ECE 320. Fundmtl Electrical Engr. 3 sem. hrs.
Introduction to circuit analysis, methods, resistive circuits, AC circuits, first-order transients, AC power, operational amplifiers, and machines. Not open to electrical engineering majors or to students who have earned credit for ECE 225.
Prerequisite(s): PH 106; and MATH 238 or MATH 247
Prerequisite(s) with concurrency: MATH 238.

ECE 326. Electric Networks. 3 sem. hrs.
Response of circuits to transient signals, both deterministic and random. Laplace transform solution techniques for circuits and differential equations. Relationship between Laplace and Fourier transforms. Frequency response and representation of circuits and systems. Modeling of uncertainty in circuit elements.
Prerequisite(s): ECE 225 and MATH 238 and MATH 355.

ECE 330. Intro. to Semiconductor Device. 3 sem. hrs.
Seminconductor device physics, PN junction, Schottky diodes, BJT, MOS capacitor, MOSFET, and optoelectronic devices. Brief introduction of microelectronic fabrication.
Prerequisite(s): PH 253 and ECE 225
Prerequisite(s) with concurrency: ECE 225.

ECE 332. Electronics I. 0-4 sem. hrs.
Semiconductor materials and properties, fundamentals of p-n junctions, diodes, diode circuits and operation, signal generators, rectifier and wave-shaping circuits, bipolar and field effect transistors, MOSFET, transistor DC circuit analysis, basic transistor amplifiers. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): ECE 225 or ECE 320; and EN 102.

ECE 333. Electronics II. 4 sem. hrs.
Operational amplifiers, BJTs, MOSFETs, integrated current biasing and active loads, differential and multistage amplifiers, frequency response, feedback and stability, power amplifiers, and introduction to digital circuits. The lab deals with experiments illustrating concepts in electronics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ECE 332.

ECE 340. Electromagnetics. 4 sem. hrs.
Electrostatics, magnetostatics, Maxwell's equations, plane waves, guided waves, and radiation.
Prerequisite(s): PH 106 and MATH 227 and MATH 238
Prerequisite(s) with concurrency: MATH 238.

ECE 350. Electric Power & Machines. 3 sem. hrs.
Single- and three-phase power system analysis. Theory and operation of electromechanical devices, including magnetic circuits, transformers, as well as DC and AC rotating machines. Fundamentals of power electronics.
Prerequisite(s): ECE 225 or ECE 320.

ECE 370. Signals And Systems. 3 sem. hrs.
Time domain and frequency domain analysis of continuous and discrete signals and systems; Fourier integral, Fourier series, Z-transform. Numerical implementation using MatLab.
Prerequisite(s): ECE 225 and ECE 285.

ECE 380. Digital Logic. 4 sem. hrs.
Number systems, Boolean algebra, logic functions and gates, design of combinational logic systems, flip-flops, design of synchronous sequential systems, and iterative networks. Includes laboratory experiments.
Prerequisite(s): (CS 150 or CBH 101) and (MATH 125 or MATH 145).

ECE 383. Microcomputers. 4 sem. hrs.
Microprocessors, microcontrollers, assembly-language programming, interrupts, polling and hardware interfaces. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (ECE 285 or CS 250 or CBH 101) and ECE 380.

ECE 404. Sensor Networks. 3 sem. hrs.
Basic architecture and applications of wireless sensor networks (WSN). Hardware components of WSN, WSN operating systems, transport layer, routing layer, MAC layer and data link layer of WSN.
Prerequisite(s): ECE 383.

ECE 406. Computer Commiunications and Networks. 3 sem. hrs.
Introduction to computer communications and networks. Topics include physical topologies, various protocols, the OSI and TCP/IP Reference Models, error detection and correction, routing algorithms, congestion control, example networks, and network applications.
Prerequisite(s): CS 325 and CS 357 and ECE 383.

ECE 408. Communications. 3 sem. hrs.
Analog and digital communication systems, random signals, sampling, filtering, analog-to-digital encoding, advanced digital modulation/demodulation, source encoding/decoding, channel encoding/decoding, multiplexing, system performance anaylsis.
Prerequisite(s): MATH 355 and ECE 370.

ECE 409. Communications Lab. 1 sem. hr.
Modeling and design of communication systems. Familiarization with specialized communications equipment and techniques. Proper use of laboratory instruments.
Prerequisite(s): ECE 370 and ECE 408
Prerequisite(s) with concurrency: ECE 408.

ECE 430. Solid State Devices. 3 sem. hrs.
Solid state physics for semiconductor devices, p-n junction, metal-semiconductor junction, JFET/MESFET, MOSFET, BJT and non-ideal behaviors of solid state devices. Organic thin film devices including organic solar cells, thin film transistors, light emitting diodes and their application for flexible displays.
Prerequisite(s): ECE 330.

ECE 432. VLSI Design. 3 sem. hrs.
Digital design issues in the context of VLSI systems. Introduction to CMOS digital design methodology, layout techniques, behavior models, circuit simulation and testing of complex systems.
Prerequisite(s): ECE 332.

ECE 434. Mixed Signal Circuits. 3 sem. hrs.
Design and testing issues in the context of mixed-signal embedded systems. Introduction to CMOS mixed-signal design methodology, layout techniques, analog to digital converters, digital to analog converters, circuit simulation, and testing and packaging of complex mixed-signal systems.
Prerequisite(s): ECE 332.

ECE 438. Intgr Circuit Fabr Prin. 3 sem. hrs.
Study of the processing tools used in semiconductor device fabrication. Topics include semiconductor fundamentals, semiconductor device fabrication processes, interconnections and contacts, integrated circuit packaging, and chip yield.
Prerequisite(s): ECE 333 or MTE 271.

ECE 439. Thin Film Technology. 3 sem. hrs.
Crystal structure and defects, film nucleation and growth models, growth of polycrystalline and epitaxial films, vacuum science technology, physical and chemical vapor deposition, solution based methods and thin film characterization techniques.
Prerequisite(s): ECE 225 or PH 253.

ECE 440. Electromagnetic Waves. 3 sem. hrs.
Mathematics and physics of the radiation, propagation and scattering of electromagnetic waves. Boundary value problems involving finite and infinite structures, waveguides, antennas and media.
Prerequisite(s): ECE 340.

ECE 445. Antennas. 3 sem. hrs.
Transmission and reception of power and information in free space; antennas as interface elements; impedance and radiation characteristics of modern antennas.
Prerequisite(s): ECE 340 or PH 332.

ECE 451. Power Electronics. 3 sem. hrs.
Detailed study on the theory and operation of power electronics converters and systems. Overview of enabling power semiconductors switching devices. Introduction to feedback control of converters. Machine drive fundamentals.
Prerequisite(s): ECE 332 and ECE 350.

ECE 452. Power Electronics Laboratory. 1 sem. hr.
Laboratory experience in three phase power systems and electric machinery. Laboratory experience on the theory and operation of power electronic converters, systems and machine drives.
Prerequisite(s): ECE 332 and ECE 350
Prerequisite(s) with concurrency: ECE 451.

ECE 453. Power Systems. 3 sem. hrs.
Basic power systems concepts and per unit quantities; transmissions line, transformer and rotating machine modeling; power flow; symmetrical component of power systems; faulted power system analysis.
Prerequisite(s): ECE 350.

ECE 454. Power Systems Laboratory. 1 sem. hr.
Test and analysis of power systems and machine devices and the design of systems using devices.
Prerequisite(s): ECE 350 and ECE 453
Prerequisite(s) with concurrency: ECE 453.

ECE 455. Electromechanical Systems. 3 sem. hrs.
Static and dynamic modeling, analysis, and simulation of mechanical, electrical, hydraulic and mixed systems. MATLAB and SIMULINK model development and simulation.
Prerequisite(s): ECE 225 and MATH 238.

ECE 461. Quantum Well Elec & Devices. 3 sem. hrs.
Energy levels and wave functions of semiconductor microstructures; envelope function approximation; quantum wells, superlattices; excitons; optical and electrical properties; selection rules; quantum confined Stark Effect; Wannier-Stark localization; field-effect transistors, tunneling devices, quantum well lasers, electro-optic modulators and quantum-well intersubband photodetectors.
Prerequisite(s): ECE 330 or PH 253.

ECE 462. Semiconductor Optoelectronics. 3 sem. hrs.
Elemental and compound semiconductors; fundamentals of semiconductor physical properties; solid state physics; optical recombination and absorption; light emitting diodes; quantum well lasers; quantum dot lasers; blue lasers; semiconductor modulators; photodetectors; semiconductor solar cells; semiconductor nanostructure devices.
Prerequisite(s): PH 253.

ECE 463. Magnetic Materials & Devices. 3 sem. hrs.
Diamagnetism and Paramagnetism, Ferromagnetism, Antiferromagnetism, Ferrimagnetism, magnetic anisotropy, domains and the magnetization process, fine particles and thin films and magnetization dynamics.
Prerequisite(s): ECE 340.

ECE 466. Fund of Nanotechnology. 3 sem. hrs.
Nanofabrication with electron beam lithography, focused ion beam, lithography, and nanoimprint; microscopies for nanostructures, including SEM, EDX, TEM, AFM, STM; nanoscale devices based on nanostructured materials (carbon nanotubes and metal oxide nanomaterials).
Prerequisite(s): ECE 330 or PH 253.

ECE 475. Control Systems Analysis. 3 sem. hrs.
Classical and modern feedback control system methods; stability; Bode, root locus, state variables, and computer analysis.
Prerequisite(s): ECE 326.

ECE 476. Control Systems Lab. 1 sem. hr.
Practical analysis and design of feedback control systems and components; electrical, mechanical, and electromechanical systems.
Prerequisite(s): ECE 326
Prerequisite(s) with concurrency: ECE 475.

ECE 479. Digital Control Systems. 3 sem. hrs.
Frequency and time methods in discrete time control systems; sampling of continuous-time signals, stability, transform design techniques, and state variable analysis and design techniques.
Prerequisite(s): MATH 237 and ECE 370 and ECE 475.

ECE 480. Digital Systems Design. 3 sem. hrs.
Digital systems design with hardware description languages, programmable implementation technologies, electronic design automation design flows, design considerations and constraints, design for test, system-on-a-chip designs, IP cores, reconfigurable computing and digital system design examples and applications.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 481.

ECE 481. Digital Systems Design Lab. 1 sem. hr.
Logic design and simulation via hardware description languages, use of electronic design automation tools, and CPU design.
Prerequisite(s) with concurrency: ECE 480.

ECE 482. Comp Visn Dig Image Proc. 3 sem. hrs.
Introduction to computer vision and digital image processing with an emphasis on image representation, transforms, filtering, compression, boundary detection, and pattern matching.
Prerequisite(s): MATH 355 and ECE 285.

ECE 484. Computer Architecture. 3 sem. hrs.
Basic computer organization, computer arithmetic, assembly language, machine language, simple and pipelined central-processor organization, memory system hierarchy, and measuring computer performance.
Prerequisite(s): ECE 383.

ECE 485. Programmable Logic Controllers. 3 sem. hrs.
Programmable Logic Controllers, fundamentals of ladder logic programming and PLC systems, advanced PLC operation, and related topics, including networking, control applications and human-machine interface design.
Prerequisite(s): ECE 383.

ECE 486. Embedded Systems. 3 sem. hrs.
Integration of microprocessors into digital systems. Includes hardware interfacing, bus protocols and peripheral systems, embedded and real-time operating systems, real-time constraints, networking, and memory system performance.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 487.

ECE 487. Embedded Systems Laboratory. 1 sem. hr.
Projects provide hands-on experience in hardware interfacing, system-level design, real-time concepts and memory system performance.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 486.

ECE 491. Special Problems. 1-8 sem. hr.
Investigation of a problem or problems, usually involving research with a faculty member. Credit is based on the individual assignment.

ECE 492. Capstone Design I. 2 sem. hrs.
First of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project. Also, the first-semester course will include instruction in design methodology, engineering ethics, societal impacts, project economics, and management tools.
Prerequisite(s) with concurrency: ECE 333.

ECE 493. Selected Topics. 1-8 sem. hr.
Special courses in all areas of electrical or computer engineering, offered as the need arises. Credit is based on the course requirements.

ECE 494. Capstone Design II. 2 sem. hrs.
Second of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project.
Prerequisite(s): ECE 492.

ECE 498. Honors Problems I. 1-3 sem. hr.
Investigation of an electrical or computer engineering research or design problem.

ECE 499. Honors Problems II. 1-3 sem. hr.
Investigation of an electrical or computer engineering research or design problem.

Engineering Graphics (DR) Courses

DR 100. Technical Sketching Engineers. 1 sem. hr.
Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 117 or MATH 121 or MATH 125 or MATH 126 or MATH 131 or MATH 132 or MATH 145 or MATH 146.

DR 133. 2d Autocad For Engineers. 2 sem. hrs.
Prerequisite(s): DR 100.

DR 135. Construction Drawing. 3 sem. hrs.
Introduction to the graphic language used by the construction industry. Covers architectural plans, elevations, sections, and pictorials, executed by freehand sketches, instrument drawings, and computer-aided drawings.
Prerequisite(s): Remove pre-requisites and co-requisites.
Prerequisite(s) with concurrency: CTD 121.

DR 250. Construction Materials & Proc. 3 sem. hrs.

DR 355. Auto Cad Interior Design. 3 sem. hrs.
Use of AutoCAD software to produce two-dimensional architectural drawings, such as floor plans, elevations, sections and details. Explores three-dimensional views and presentation techniques.

General Engineering Studies (GES) Courses

GES 100. Intro Engr Pre-Calculus. 1 sem. hr.
MATH100 or MATH112 Overview of engineering as a career and basic skills relevant for student success in college and engineering.
Prerequisite(s) with concurrency: MATH 005 or MATH 100 or MATH 112.

GES 126. Intro Engineer Computng. 3 sem. hrs.

GES 131. Foundatns Engineering I. 2 sem. hrs.
Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126.

GES 132. Foundatns Engineering II. 2 sem. hrs.
Introduction to computer problem solving and algorithm development using MatLab. Includes matrix operations, systems of linear equations, curve fitting, root finding, Taylor series and numerical integration.
Prerequisite(s): MATH 125 or MATH 126 or MATH 145 or MATH 146.

GES 145. Honors Foundtns Engineering I. 2 sem. hrs.
Placement in Math115 or higher and admission to UA Honors or Computer-Based Honors programs. Honors Foundations of Engineering (GES 131)
Prerequisite(s): MATH 112.

GES 146. Honors Foundations Of Engr II. 2 sem. hrs.
Introduction to computer problem solving and algorithm development using MatLab. Includes matrix operations, systems of linear equations, curve fitting, root finding, Taylor series and numerical integration. Honors component will incorporate independent study projects designed to expand and broaden student's knowledge base of programming applications in engineering.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

GES 225. Impacts of Mjr Engr Accomplish. 3 sem. hrs.
Survey of major works of engineering, how they advanced the state of knowledge, the social issues of their time and the impact they have had on culture and society.

GES 255. Engineering Statistics I. 3 sem. hrs.
Probability and basic statistical concepts, random variables, discrete and continuous distributions, sampling distributions, inferences concerning means, simple regression, and correlation. Experiments demonstrating probabilistic and statistical concepts are conducted.
Prerequisite(s) with concurrency: MATH 126 and MATH 146.

GES 295. British Industrial Revolution. 3 sem. hrs.
This course is designed to introduce students to the history surrounding the Industrial Revolution, with emphasis on west midlands of Great Britain. This area was important for iron making, ceramics, pottery and other large-scale industries. The material and processes involved with be covered as well as the societal and environmental impact of the Industrial Revolution. Modern day industrial Britain will also be surveyed.

GES 400. Engineering Statistics. 3 sem. hrs.
Not open to students with credit for GES 255. Not available for MSIE degree credit. Probability and basic statistical concepts, discrete and continuous distributions, the central limit theorem, sampling distributions, point and interval estimation, hypothesis testing, regression and correlation analysis, and analysis of variance.
Prerequisite(s): MATH 126 or MATH 146.

GES 401. Operations Research. 3 sem. hrs.
Not open to students with credit for IE 363. Not available for MSIE degree credit. Model construction, linear programming, network models, dynamic models, stochastic models, queuing theory and decision theory.
Prerequisite(s): MATH 126
Prerequisite(s) with concurrency: GES 255 or GES 400 or GES 500.

GES 410. London/Dublin Internship. 3 sem. hrs.
Student will enroll in 7 weeks of internship to work in the engineering profession as part of the study abroad program.

GES 473. Engineering Service Learning. 1-3 sem. hr.

GES 491. Special Topics. 1-3 sem. hr.
Research course designed to meet the needs of individual students.

Mechanical Engineering (ME) Courses

ME 121. INTRODUCTION TO MECHANICAL ENGINEERING. 1 sem. hr.
An introduction to the discipline of mechanical engineering and the role of the mechanical engineer, including both mechanical and thermal/fluid stems. Focus is on learning about the discipline through a series of student hands-on activities. Credit will not be given for this course for students who have passed ME 215.
Prerequisite(s): Math 112 or Math 113 or Math 115 or Math 125 or Math 126 or Math 145 or Math 146 or Math 227 or Math 238.
Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238.

ME 203. Engineering Economics. 3 sem. hrs.
Annual cost, present worth, rate of return and benefit-cost methods of determining prospective differences between or among design alternatives. Fixed and variable costs; retirement and replacement problems.
Prerequisite(s): MATH 100.

ME 215. Thermodynamics I. 3 sem. hrs.
Properties of matter; processes in fluids; zeroth; first and second laws; irreversibility.
Prerequisite(s): MATH 126 or MATH 146 or MATH 132.

ME 216. Thermal Engineering Survey. 3 sem. hrs.
Survey of thermal engineering topics for engineers outside mechanical engineering. To include an overview of subjects typically covered in courses about fluid mechanics, thermo-dynamics I and II, and heat transfer. An emphasis is placed on qualitative concepts of transport and conservation as they relate to thermal-fluids in order to increase the understanding of thermal engineering applications.
Prerequisite(s): MATH 126 or MATH 146.

ME 305. Thermodynamics II. 3 sem. hrs.
Thermodynamic cycle analysis, Maxwell relations and development of thermodynamic properties, and thermodynamics of non-reacting and reacting mixtures and chemical equilibrium.
Prerequisite(s): MATH 227 or MATH 247 and ME 215.

ME 308. Propulsion Systems. 3 sem. hrs.
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): ME 305.

ME 309. Heat Transfer. 3 sem. hrs.
Steady and unsteady conduction, convection and radiation heat transfer.
Prerequisite(s): MATH 238 and ME 215 and AEM 311.

ME 349. Engineering Analysis. 3 sem. hrs.
Elements of statistics, matrix algebra, numerical analysis, and partial differential equations applied to engineering problems; includes extensive computer applications. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Math 238 and GES 132 or ENGR 141 or ENGR 103.

ME 350. Static Machine Components. 3 sem. hrs.
The analysis of stresses of machine elements and the topics of fatigue strength, wear and failure criteria. Also includes the design of fasteners covering both bolted and welded joints.
Prerequisite(s): AEM 250 and DR 133 or DR 125 or ENGR 161.

ME 360. Contrl Instrumnt Components. 3 sem. hrs.
Introduction to selection and use of electrical, pneumatic, and other components of mechanical system instrumentation and control. Specific components include modern electrical measurement devices, signal conditioning, force and torque measurement, proximity sensors, AC and DC motors, etc. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250; and ECE 320 or ECE 225.

ME 364. Vehicle Dynamics. 3 sem. hrs.
Dynamics of four-wheeled vehicles, including acceleration and braking performance, road loads, ride comfort, steady-state cornering, suspensions, steering systems, and rollover. Vehicle dynamics system modeling programs are introduced and used for detailed investigations of the effect of system design parameters on performance.
Prerequisite(s): AEM 264.

ME 372. Dynamic Systems. 3 sem. hrs.
An introduction to the modeling, analysis and control of dynamic systems. The course takes the student from initial modeling through analysis of the system response and finally into the control of the system. Specific systems include mechanical devices, electrical circuits, and electromechanical systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 238 and AEM 264 and ME 349; and ECE 320 or ECE 225.

ME 377. Noise Control. 3 sem. hrs.
Physical properties of noise; hearing and noise criteria measurement techniques; and noise-control fundamentals applied to practical problems.
Prerequisite(s): MATH 238 and PH 106.

ME 383. Modern Manufacturg Processes. 3 sem. hrs.
A survey of classical and modern manufacturing processes. Emphasis is on technical fundamentals and practical applications. Components include geometric and service attributes of manufactured products, metal casting processes, forming processes, machine processes and joining processes. Practical project experience included.
Prerequisite(s): AEM 250 and AEM 251 and DR 125 or ART 131 or ENGR 161.

ME 406. Thermal Power Systems. 3 sem. hrs.
Study of thermal systems emphasizing large power generation systems.
Topics include Rankine and gas turbine cycles, fossil fuels combustion, boiler characteristics, cogeneration, combined cycle plants, environmental effects of power generation, and alternative energy concepts.
Prerequisite(s): ME 305.

ME 407. Heatg Ventilat Air-Condg. 3 sem. hrs.
Fundamentals and practice associated with heating, ventilating and air conditioning; study of heat and moisture flow in structures, energy consumption, human comfort and health; and design of practical systems.
Prerequisite(s): ME 309 and ME 305.

ME 415. Energy Systems Design. 2 sem. hrs.
Techniques of analysis and design of energy systems, including piping networks, heat exchangers and prime movers. Emphasis is on modeling and computational solutions.
Prerequisite(s): ME 309 and ME 305.

ME 416. Energy Conservtn & Manag. 3 sem. hrs.
Analysis of energy systems, including fossil fuels, steam, cogeneration, waste heat recovery, heating, ventilation, air-conditioning, control and energy-management systems. Topics include conservation in electrical load, lighting, building envelope, and insulation; alternative energy sources; economic analysis; energy auditing; and fuel sources and supplies.
Prerequisite(s): ME 309 and ME 305 and ECE 320 or ECE 225.

ME 417. Sustainable Energy. 3 sem. hrs.
Contemporary issues surrounding the challenge of providing energy for societal and economic development are examined. Depletion of fossil fuel resources and the impact of fossil fuel use on the environment and climate are considered. Alternative Sustainable sources of energy production are explored.
Prerequisite(s): ME 215.

ME 418. Combustion Engines. 3 sem. hrs.
Theory, design, and performance of combustion engines; fuels, oxidants, and propellants; and combustion, dissociation, ionization, and engine emissions.
Prerequisite(s): ME 305.

ME 421. Reliability Maint & TPM. 3 sem. hrs.
Measures and methods of reliability engineering, maintainability engineering and total productive maintenance, as used in the system design process.
Prerequisite(s): GES 255 or GES 500.

ME 430. Fuzzy Set Theory & Application. 3 sem. hrs.
This course introduces fuzzy set theory and its engineering applications to upper-class undergraduate students.
Prerequisite(s): GES 400 or GES 500.

ME 441. Intro Biomedical Engineering. 3 sem. hrs.
Introduction to the relationship between engineering and medicine. Modeling musculoskeletal and cardiovascular systems. Review of medical devices such as non-invasive imaging devices, biopotential electrodes and amplifiers, and assistive technology.
Prerequisite(s): MATH 238 and PH 106 and AEM 201.

ME 450. Dynamic Machine Components. 3 sem. hrs.
This course covers the selection and application of machine elements in dynamic systems. Specific components covered include transmission elements (gears and pulleys), mechanisms (linkages and cams), shafting, bearing systems and prime movers.
Prerequisite(s): AEM 264 and ME 350.

ME 460. Thermal Systems Instrumentn. 3 sem. hrs.
Selection and use of pressure, temperature, fluid flow and heat transfer instrumentation. Hands-on experiences with fluid flow, heat transfer, refrigeration and heat engine equipment. Statistical design of experiments. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ME 360 and ME 309.

ME 469. Prod Planning & Contrl. 3 sem. hrs.
Forecasting and estimation, aggregate planning, charts and network models, resource allocation, inventory control, sequencing and scheduling, dispatching, flow control, bills of materials, and requirements planning.
Prerequisite(s): GES 255 or GES 500; and IE 363 or GES 501.

ME 470. Mechanical Vibrations. 3 sem. hrs.
Free and forced vibrations, both undamped and damped, and systems with many degrees of freedom formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): ME 372 and AEM 250.

ME 471. Fundamentl Of Acoustics. 3 sem. hrs.
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements, and the associated instrumentation.
Prerequisite(s): MATH 238 and PH 106 and ECE 225 or ECE 320.

ME 475. Control Systems Analysis. 3 sem. hrs.
Classical and modern feedback-control system analysis; block diagrams, state variables, stability, root locus and computerized analysis. Includes an introduction to modern control techniques.
Prerequisite(s): ME 349 and ME 372.

ME 483. Computer-Aided Manufacturing. 3 sem. hrs.
Introduction and application of several technologies used in computer-aided design/manufacturing; computer-aided design, solid modeling, rapid prototyping, geometric dimensioning and tolerancing, machining process optimization, NC programming CNC machines, software-based product, and process design in machining.
Prerequisite(s): ME 383.

ME 485. Intro to Computer-Aided Design. 3 sem. hrs.
Basics of computer-aided design, including solid modeling, model assembly, structural and thermal analysis, mechanism simulation and parametric/optimization study. Interactive computer programs are used to design and analyze mechanical componens/devices.
Prerequisite(s): AEM 250 and ENGR 161.

ME 489. Mechanical Engg Design I. 3 sem. hrs.
Introduction to concepts and techniques of engineering design with supporting mathematical material. Guest lecturers present professional aspects of engineering. The Capstone Design Project is begun and carried on through ME 490 (ME 489 and ME 490 are taken in consecutive semesters).
Prerequisite(s): ME 350 and ME 309.

ME 490. Mechanicl Engr Design II. 3 sem. hrs.
In this semester-long internship experience, three-student teams serve as consultants to an industrial client. Emphasis is on conducting a professional design study and preparing written and oral presentations of the project.
Prerequisite(s): ME 489.

ME 491. Special Problems. 1-6 sem. hr.
This is a special topics lecture class or an assigned problem class. Credit is based on the amount of work undertaken.

ME 497. Mech Engineerg Project. 1-3 sem. hr.
An individual analytical, experimental or design project. Research on an assigned problem culminates in a required report.

Metallurgical and Materials Engineering (MTE) Courses

MTE 121. Introduction to Materials . 1 sem. hr.
An introduction to the materials science and engineering profession and history. The course includes selected topics useful in the study of metallurgical and materials engineering.

MTE 155. Freshman Seminar. 4 sem. hrs.
This course will provide the science background today's citizens need to understand the problems and limitations society faces with respect to energy resources and the environment. Science concepts will be introduced as needed and within the context of energy, the environment, or materials. Students will be encouraged to critically analyze timely examples of energy usage or environmental problems from the news media. Students will gain an understanding of how engineering and technology, especially the development of new materials, can translate science to practical and beneficial outcomes.

MTE 252. Metallurgical Process Calculations. 3 sem. hrs.
Mathematical quantitative relations of chemical reactions and physicochemical processes; principles of overall mass and energy balances and the application of these principles to metallurgical systems.
Prerequisite(s): CH 102 and MATH 125.

MTE 271. Engineering Materials : Structure and Properties. 3 sem. hrs.
Basic structure of ceramics, alloys, composites, metals, and polymers. Relationships between the structure of materials and their mechanical, electrical, magnetic, thermal, and chemical properties.
Prerequisite(s): CH 101 or CH 117.

MTE 275. Engineering Materials Laboratory. 3 sem. hrs.
Alloy preparation and processing of materials. Materials testing and evaluation, laboratory procedures and techniques, metallography, heat treatment, phase diagrams, hardenability, and mechanical testing. Introduction to technical report writing and application to written laboratory reports.
Prerequisite(s): EN 101
Prerequisite(s) with concurrency: MTE 271.

MTE 353. Transport. 3 sem. hrs.
Definition of viscosity, elements of laminar and turbulent flow, and overall mechanical energy balance. Thermal conductivity, steady and transient conduction problems, forced and natural convection, heat transfer, and radiative heat transfer. Definition of binary diffusivity, convection mass transfer, and mass transfer coefficient. The application of the principles covered in the design of specific metallurgical systems.
Prerequisite(s): MATH 238 and MTE 252
Prerequisite(s) with concurrency: MATH 238.

MTE 362. Thermodynamics Of Materials. 4 sem. hrs.
Thermochemsitry applied to typical metallurgical reactions, graphical representations of equilibria, binary and ternary phase diagrams, hetergeneous equilibrium, behavior of solutions, standard states, and electrochemical thermodynamics.
Prerequisite(s): CHE 254 or MTE 252.

MTE 373. Physical Metallurgy. 4 sem. hrs.
Introduction to the principles of physical metallurgy. Topics include crystal structure, deformation, dislocations, point defects,diffusion, interfaces, nucleation theory, transformation, and growth.
Prerequisite(s): MTE 271 and MTE 362.

MTE 380. Synthesis, Processing and Manufacturing of Materials. 3 sem. hrs.
Detailed study of principal alloy, ceramic, and polymer systems. Evaluation of the effects or processing on selected physical and mechanical material properties. Overview of design fundamentals and examination of selected material/design case studies for manufacturing.
Prerequisite(s): MTE 271.

MTE 412. Polymer Materials Engineering. 3 sem. hrs.
Introduction to the manufacture, processing and applications of organic polymeric materials. The chemistry of polymer manufacture, the molecular structure of polymers, and athe structure-property relationships for thermoplastic and thermosetting polymers are covered.
Prerequisite(s): CH 102.

MTE 416. Fundamentals of Foundry Processing. 4 sem. hrs.
Introduction to the fundamentals of metal casting, including mold materials, molding methods, casting processes, gating and risering of castings, solidification microstructure and casting deflects.
Prerequisite(s): MTE 362 and MTE 380.

MTE 417. Simulation of Casting Processes. 3 sem. hrs.
This course will cover the rationale and approach of numerical simulation techniques, casting simulation and casting process design, and specifically the prediction of solidification, mold filling, microstructure, shrinkage, microporosity, distortion and hot tearing. Students will learn casting simulation through lectures and hands-on laboratory/tutorial sessions.
Prerequisite(s): MTE 416 or permission of instructor.

MTE 439. Metallurgy Of Welding. 3 sem. hrs.
Thermal,chemical, and mechanical aspects of welding using fusion welding processes. The metallurgical aspects of welding, including microstructure and properties of the weld, are also included.
Prerequisite(s): MTE 380 or permission of instructor.

MTE 441. Chemical Metallurgy. 4 sem. hrs.
Application of thermodynamics, fluid flow, and heat and mass transfer to the design and operation of chemical metallurgical processes; roasting, agglomerating, oxidation and reduction reactions, smelting, converting, and refining.
Prerequisite(s): MTE 353 and MTE 362
Prerequisite(s) with concurrency: MTE 443.

MTE 443. Materials Engineering Design I. 3 sem. hrs.
Principles of engineering design. Problem formulation, concept design, configuration design, parametric design, detail design, materials selection, manufacturing process selection, prototyping, project planning and cost analysis, application of computer-based design tools, concepts of shared responsibility, teamwork and communication. Analysis of problems, design and development solutions. Oral presentations and written reports. A project will be assigned. Final project presentations will be evaluated by the MTE faculty.
Prerequisite(s): EC 110, MTE 362, 373, 380
Prerequisite(s) with concurrency: MTE 441 and MTE 481.

MTE 445. Materials Engineering Design II (W). 3 sem. hrs.
Capstone design course. Students work in teams on design projects which involve evaluation of industrial based metallurgical or materials problems and emphasize societal impact. Implementation of design principles and the research plan developed in MTE 443. Interim and final design reviews with oral presentations and written reports. Final project presentation will be evaluated by the MTE faculty.
Prerequisite(s): MTE 416, 441, 443, 455, and 481.

MTE 449. Powder Metallurgy. 3 sem. hrs.
The course will cover the topic of powder metallurgy, describing the various types of powder processing and how these affect properties of the componentss made. Current issues in the subject area, from high production to nanomaterials will be discussed.
Prerequisite(s): MTE 373 and MTE 380.

MTE 450. Plasma Processing of Thin Films. 3 sem. hrs.
This course will cover fundamental technology involved in thin film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed, with special emphasis on sputtering tools. A range of thin film applications will be explored, with examples of magnetics, semiconductor, optical, and medical applications. The fundamentals of process optimization using a Design of Experiments will be taught with a test case of process optimization for the final exam.
Prerequisite(s): PH 106 and CH 102 or permission of instructor.

MTE 455. Mechanical Behavior Of Materials. 4 sem. hrs.
Flow and fracture of solids; uniaxial stress-strain as a reference behavior; theories of terminal stability under impact; monotonic, sustained (creep), and repeated (fatigue) loadings of solids under various states of stress.
Prerequisite(s): AEM 201 or permission of instructor.

MTE 476. Physical Ceramics. 3 sem. hrs.
Topics include ceramic raw materials, refractories, thermal properties, mechanical properties, processing, advanced ceramics, etc.
Prerequisite(s): MTE 353 and MTE 362 and MTE 373.

MTE 481. Analytical Methods For Materials. 4 sem. hrs.
Crystallography, physics of X-rays, diffraction by crystalline materials, applications of X-ray, electron and neutron diffraction, and spectrometric analysis of materials. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MTE 373 or permission of instructor.
Prerequisite(s) with concurrency: MTE 373.

MTE 487. Corrosion Science & Engineering. 3 sem. hrs.
The course is aimed at investigating the underlying fundamental causes of corrosion problems and failures. Emphasis is placed on the electrochemical reactions occurring and the tools and knowledge necessary for predicting corrosion, measuring corrosion rates, and combining these with prevention and materials selection.
Prerequisite(s): MTE 271 and CH 102 or permission of instructor.

MTE 491. Special Problems. 1-3 sem. hr.
An assigned problem is explored individually. Credit is based on the amount of work undertaken.

MTE 492. Special Problems. 1-3 sem. hr.
An assigned problem is explored individually. Credit is based on the amount of work undertaken.

Department of Aerospace Engineering and Mechanics

The Department of Aerospace Engineering and Mechanics has two main areas of focus:

1. The Aerospace Engineering Area is primarily concerned with the design and analysis of vehicles (e.g., aircraft and spacecraft) and missiles that operate at every speed and altitude. To design these vehicles, the Aerospace engineer must have a broad knowledge of the fundamental principles concerning the flow of gases and liquids; the strength, stiffness and stability of lightweight structures; propulsion systems; guidance and control systems; and the effects of environmental conditions.
2. The Mechanics Area focuses on the engineering science that describes the response of solid or fluid bodies to force systems. Virtually all undergraduate engineering students are required to take engineering science and mechanics courses in preparation for future work in their chosen professional areas.

The undergraduate curriculum in the Department of Aerospace Engineering and Mechanics leads to the Bachelor of Science (BS) degree in Aerospace Engineering and provides a background in the basic sciences, engineering sciences, humanities, applied analysis and design. This enriching education allows graduates to take advantage of the many career opportunities in the aeronautical industry, the space program and related engineering activities. Graduates with suitable academic records are also prepared to pursue advanced degrees in aerospace engineering or mechanics, other related technical areas, and professional areas such as law and medicine.

Taking the Fundamentals of Engineering examination is a departmental requirement for graduation.

Program Objectives

Undergraduate Aerospace Engineering students are expected to:

- have a fundamental knowledge of aerospace structures, flight vehicle dynamics, control, aerodynamics and aerospace propulsion as a foundation for lifelong learning and engineering practice
- be able to conceptualize, design and analyze aerospace systems
- be prepared to develop algorithms and use modern computational/simulation software for solving aerospace engineering problems
- have an understanding of the aerospace industry and an appreciation of its professional responsibilities

Research

A broad-based program of research is being conducted by the faculty of the Department of Aerospace Engineering and Mechanics. Research efforts are concentrated in three areas:

- **Dynamics and Controls:** aeroelasticity, differential game theory, multidisciplinary modeling, navigation and gyroscopes, numerical models, spacecraft dynamics and control, and structural dynamics and control of flexible bodies
- **Fluid Mechanics:** aerospace propulsion, computational fluid mechanics, experimental aerodynamics, flow control, heat transfer, luminescent sensing, novel LDV and PIV development, transport phenomena, and turbulence modeling
- **Solid Mechanics and Structures:** advanced composites, elasticity and plasticity, fatigue/fracture mechanics, machine design, material joining, mechanical characterization, MEMS, nondestructive evaluation, nonlinear mechanics, penetration mechanics, photoelasticity, and stress analysis

Outstanding laboratory and computing facilities are available to support these areas of concentration. Additionally, research assistantships are available for undergraduate and graduate students on numerous research projects.

Aerospace Engineering Curriculum

In addition to maintaining the grade point averages specified by the University and the College of Engineering, Aerospace Engineering students must earn at least a C average in all Aerospace Engineering courses designated AEM. Deficiencies in the AEM grade point average may only be overcome by repeating courses in which grades of D or below were previously earned.

The BSAE curriculum is subject to change as circumstances dictate. Contact the Department of Aerospace Engineering and Mechanics for current curriculum requirements.

Freshman			
Fall	**Hours**	**Spring**	**Hours**
AEM 121	2	EC 110	3
CH 101	4	EN 102	3
EN 101	3	ENGR 141	1
ENGR 111	1	ENGR 151	1
ENGR 131	1	MATH 126	4
MATH 125	4	PH 105	4
	15		**16**
Sophomore			
Fall	**Hours**	**Spring**	**Hours**
AEM 201	3	AEM 250	3
AEM 249	2	AEM 251	1
MATH 227	4	AEM 264	3
MATH 237	3	AEM 311	3
PH 106	4	ECE 320	3
		MATH 238	3
	16		**16**
Junior			
Fall	**Hours**	**Spring**	**Hours**
AEM 313	3	AEM 368	4
AEM 341	3	AEM 413	3
AEM 349	4	AEM 461	3
ME 215	3	History (HI) or Social and Behavioral Sciences (SB) elective	3
Humanities (HU), Literature (L), or Fine Arts (FA) elective	3	Humanities (HU), Literature (L), or Fine Arts (FA) elective	3
	16		**16**
Senior			
Fall	**Hours**	**Spring**	**Hours**
AEM 402	3	AEM 404	3
AEM 408	3	AEM 451	4
AEM 468	4	Aerospace Engineering elective	3
AEM 495	2	Humanities (HU), Literature (L), or Fine Arts (FA) elective	3
Aerospace Engineering elective	3	History (HI) or Social and Behavioral Sciences (SB) elective	3
	15		**16**

Total Hours: 126

Program Minor Policy

Minor in Aerospace Engineering

A Minor in Aerospace Engineering requires the completion of a minimum of 20 hours including the following courses plus the required prerequisites:

		Hours
AEM 250	Mechanics Of Materials I *	3
AEM 251	Mechanics Of Materials I Lab	1
AEM 264	Dynamics *	3
AEM 311	Fluid Mechanics *	3
AEM 313	Aerodynamics I	3
AEM 341	Aircraft Structural Analysis **	3
AEM 368	Flight Dynamics & Control I **	4

*These mechanics courses have AEM 201 Statics and various Math prerequisites.

**These two courses have prerequisites required of BSAE students but not necessarily of students from other degree programs. No equivalent for AEM 249 Algorithm Devl Implementation is required of non-BSAE students. ME 349 Engineering Analysis may substitute for AEM 349 Engineering Analysis for BSME students as a prerequisite for AEM 368 Flight Dynamics & Control I. Other students will need to have a numerical analysis/algorithms background for AEM 368 Flight Dynamics & Control I. Suitability of a student's background will be determined by the AEM department on a case-by-case basis.

Minors for College of Engineering Students

A student majoring in an engineering program may earn a minor in engineering or another division of the University. Examples are chemistry, mathematics and physics, which are offered by the College of Arts and Sciences, and the general business minor offered by the Culverhouse College of Commerce and Business Administration. Required courses and electives needed for an engineering or computer science degree may also count toward the minor. For additional information about minors and the courses required in them, see the appropriate sections of the undergraduate catalog.

Academic Policies for Minors

Academic criteria for a minor are determined by the division and program offering the minor. This includes prerequisite rules, minimum grade point average and any academic standards. When a minor is optional, a student can withdraw from the minor at any time. Any minor attempted by a College of Engineering student must be completed at the time a Bachelor of Science degree is awarded. A student's graduation will not be delayed to complete an optional minor unless the student notifies the Engineering Registrar prior to the degree certification deadline. Each College of Engineering department program should maintain a list of minor courses in their programs, together with effective dates, even if all courses in a program can be used in the minor.

Procedure for Minor Selection by Engineering Students

1. Log in to your myBama account.
2. Select the Student tab.
3. Click Change of Major/Minor Application.
4. Click Change Program.
5. Select a minor from the menu.
6. Click Continue.

Minor in Engineering for Other Students

Two types of minors in the College of Engineering are available to students enrolled in other divisions of the University. The minors require a minimum of 18 hours in engineering courses. The Type 1 minor is a specialized program in any of the College's engineering disciplines. Course requirements and advising are available from the appropriate department head, who will appoint an adviser for a student desiring this type of minor. The Type 2 minor is a general minor in engineering. The associate dean of engineering appoints an adviser for a student pursuing a Type 2 minor, which requires a minimum of 18 hours in courses chosen from a list available from the associate dean for Academic Programs.

University Scholars Program

The University Scholars Program allows gifted and highly-motivated undergraduate students the opportunity to work simultaneously on a bachelor's and master's degree.

Eligibility Requirements

Phase I: Contingent upon completion of 61 semester hours of study and with a grade point average of at least a 3.3, students are admitted to Phase I at the beginning of their junior year or recommendation of the AEM Department. During their junior year, students will take courses in their major field to prepare them for the work of Phase II.

Phase II: On completion of at least 91 hours (typically at the end of the junior year), a GPA of 3.3 or above, and recommendation by the AEM Department, students may apply for and be accepted for admission to the Graduate School. Upon admission to the Graduate School, students will begin a program of study leading to the master's degree as approved by the AEM Department and the dean of the Graduate School. Students accepted into the program may receive dual credit for up to six hours of graduate (500-level and above) credit. Seniors are allowed to take up to nine hours of graduate credit.

For more information, contact the AEM Undergraduate Program Coordinator, Dr. Thomas Zeiler at 205.348.7305 or tzeiler@eng.ua.edu.

AEM Honors Program

Dr. Thomas Zeiler, Undergraduate Program Coordinator
205.348.7305; tzeiler@eng.ua.edu

The Department of Aerospace Engineering and Mechanics (AEM) Honors Program is part of the College of Engineering Honors Program (COEHP). It is designed to challenge exceptionally talented students with an enriched educational experience.

Students completing the AEM Honors Program will be awarded a certificate and recognized at the Honors Day Ceremony in the student's senior year.

Participation in the University Honors Program (UHP) is recommended but not a requirement. It is also possible for a student in the AE Honors Program to participant in the AEM University Scholars Program; visit aem.eng.ua.edu/undergraduate/scholars-program for more information.

Eligibility Requirements

- must be a current UA aerospace engineering student
- must apply to the program
- must have a minimum 3.3 GPA (freshmen and transfer students must have a minimum 3.3 GPA on a 4.0 scale and an ACT score of 28 or SAT score of 1240; students not meeting this requirement may enter the program after they achieve a 3.3 GPA at the University)
- Honors students must maintain a minimum 3.3 GPA to remain in the AE Honors Program

AEM Honors Program Requirements

Eighteen hours of Honors credits are required, with 12 hours minimum that may include either approved AEM graduate or 400-level courses taken as Honors-By-Contract*. Three of these 12 hours must be "experience-based"**.

Approved Graduate Courses	Hours
AEM 500	3
AEM 508	3
AEM 513	3
AEM 514	3
AEM 520	
AEM 528	3
AEM 552	3
AEM 567	3
AEM 570	3
AEM 571	

*400-Level AEM courses taken as Honors-By-Contract, require completion of work deemed by the instructor to be more advanced than the usual course content. The Honors agreement must be established before the course begins.
**The "experience-based" requirement may be met by or AEM 492 Special Problems by arrangement with AEM faculty.

Other Honors Classes

A minimum of six additional hours of Honors classes must be taken that may include additional AEM Honors courses, CBH (Computer Based Honors) classes, UHP or IHP (International Honors Program) courses. If these six hours are designated UHP courses, the student will be recognized as completing UHP as well as COEHP requirements.

Faculty

Department Head

Baker, John

William D. Jordan Chair Professor

Roy, Samit

Alton N. Scott Chair Professor

Dong, Pingsha

Professors

Barkey, Mark E.

Jackson, John E., Jr.

Karr, Charles L.

Associate Professors

Haque, Anwarul

Hubner, James Paul

Lang, Amy W.

Olcmen, Semih

Sharif, Muhammad Ali Rob

Whitaker, Kevin W.

Zeiler, Thomas A.

Assistant Professors

Shen, Jinwei

Su, Weihua

Unnikrishnan, Vinu

Professors Emeriti

Freeman, L Michael

Gambrell, Samuel, Jr.

Jones, Stanley E.

Courses

AEM 120. Aerospace Science For Educators. 4 sem. hrs.
Students develop meaningful understanding and use of engineering and science knowledge and critical-thinking skills and come to appreciate engineering and science as part of the daily life of a scientifically literate professional.

AEM 121. Intr. to Aerospace Eng. I. 2 sem. hrs.
To survey aerospace history, discuss pertinent topics and introduce basic concepts that promote an understanding of aerospace engineering and the profession.
Prerequisite(s) with concurrency: MATH 112.

AEM 201. Statics. 3 sem. hrs.
Forces and couples and resultants of force systems, free-body diagrams, equilibrium, and problems involving friction; and centroids, center of gravity, and distributed forces.
Prerequisite(s): MATH 125 or MATH 145; and PH 105 and ENGR 151.

AEM 249. Algorithm Devl Implementation. 2 sem. hrs.
Algorithm development, numerical solution of engineering problems, and structured problem solving in C++.
Prerequisite(s) with concurrency: MATH 125 and MATH 145.

AEM 250. Mechanics Of Materials I. 3 sem. hrs.
Concepts of stress and strain; analysis of stresses and deformation in bodies loaded by axial, torsional, and bending loads; combined loads analysis; statically indeterminate members; thermal stresses; columns; and thin-walled pressure vessels.
Prerequisite(s): MATH 126 or MATH 146 and AEM 201.

AEM 251. Mechanics Of Materials I Lab. 1 sem. hr.
Mechanical tests of metallic and nonmetallic materials in the elastic and inelastic ranges; use of materials testing for acceptance tests, for the determination of properties of materials, and for illustration of the validity of assumptions made in mechanics of materials.
Prerequisite(s) with concurrency: AEM 250.

AEM 264. Dynamics. 3 sem. hrs.
Kinematics of particles and rigid bodies, Newton's laws of motion, and principles of work-energy and impulse-momentum for particles and rigid bodies.
Prerequisite(s): MATH 126 or MATH 146; and AEM 201.

AEM 311. Fluid Mechanics. 3 sem. hrs.
Fluid statics, application of conservation laws to simple systems, dimensional analysis and similitude, and flow in open and closed conduits.
Prerequisite(s): MATH 227 or MATH 247; and AEM 201.

AEM 313. Aerodynamics I. 3 sem. hrs.
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 311 and AEM 264
Prerequisite(s) with concurrency: MATH 238.

AEM 314. Aircraft Performance. 3 sem. hrs.
Aircraft performance parameters, including static stability criteria.
Prerequisite(s): AEM 264 and AEM 349
Prerequisite(s) with concurrency: AEM 349 and AEM 264.

AEM 341. Aircraft Structural Analysis. 3 sem. hrs.
Methods of analyzing stressed skin structures of the types that are typically found in aircraft, missiles and space vehicles. Unsymmetrical bending and bending and twisting of multiple cell structures are also covered.
Prerequisite(s): AEM 249 and AEM 250.

AEM 349. Engineering Analysis. 4 sem. hrs.
Elements of analytical and numerical analysis with engineering applications including, but not limited to, differential equations, linear algebra, root-finding, Gaussian elimination, and Runge-Kutta integration.
Prerequisite(s): MATH 237 and MATH 238 and AEM 249.

AEM 368. Flight Dynamics & Control I. 4 sem. hrs.
Fundamentals of airplane aerodynamics and performance, static trim, 6-DOF equations of motion, and flight dynamics, stability and control.
Prerequisite(s): AEM 313 and AEM 349.

AEM 402. Integrated Aerospace Design I. 3 sem. hrs.
Preliminary design techniques for an aerospace system.
Prerequisite(s): AEM 341 and AEM 368 and AEM 413
Prerequisite(s) with concurrency: AEM 408.

AEM 404. Integrated Aerospace Design. 3 sem. hrs.
Preliminary and detailed design of aircraft and space vehicles, including weight and balance, power plant selection, exterior layout, performance, stability, and control. Involves group efforts on selected projects.
Prerequisite(s): AEM 402.

AEM 408. Propulsion Systems. 3 sem. hrs.
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): AEM 413.

AEM 413. Aerodynamics II. 3 sem. hrs.
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 313 and ME 215.

AEM 414. Experimental Aerodynamics. 3 sem. hrs.
This course provides a laboratory counterpart to concepts discussed in aerodynamics and fluid mechanics. Course topics include statistical and uncertainty analysis techniques, design of experiments, computer-based data-acquisition, sensors for fluid mechanic measurements, and aerodynamic measurement techniques and facilities.
Prerequisite(s): AEM 313.

AEM 416. Helicopter Theory. 3 sem. hrs.
Critical examination of the propulsive airscrew, including induced velocity relations, flow patterns, and similarity. Practical applications are approached through existing theory and practice.
Prerequisite(s): MATH 238 and AEM 264 and AEM 311.

AEM 420. Computational Fluid Dynamics. 3 sem. hrs.
Introduction to basic mathematical concepts and engineering problems associated with numerical modeling of fluid systems. Application of the state of the art numerical models to engineering problems. Fundamentals of Finite Difference and Finite Volume Methods and their applications in fluid dynamics and heat transfer problems will be covered.
Prerequisite(s): AEM 311 and AEM 349 and MATH 238.

AEM 428. Space Proplusion. 3 sem. hrs.
This course introduces the student to descriptions and analyses of space and launch-vehicle propulsion. Topics covered include advanced schemes such as nuclear, solar and laser propulsion; power cycles; and tether systems.
Prerequisite(s): AEM 408
Prerequisite(s) with concurrency: AEM 408.

AEM 451. Structural Design & Testing. 4 sem. hrs.
Design of tension, compression bending, torsion, and stiffened panel members; experimental and analytical investigations involving static and dynamic structural behavior. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 341 and ECE 320
Prerequisite(s) with concurrency: AEM 461.

AEM 452. Composite Materials. 3 sem. hrs.
Introduction to the governing principles of the stiffness and strength of unidirectional and multidirectional fiber composite materials.
Prerequisite(s): AEM 250; and AEM 341 or CE 331 or ME 350.

AEM 461. Computational Methods for Aerospace Structures. 3 sem. hrs.
Development of the fundamentals of the finite-element method from matrix and energy methods. Use of the finite-element method for detailed design of aerospace structures. Modeling techniques for static and dynamic analyses.
Prerequisite(s): MATH 227 or MATH 247, AEM 341 and AEM 349.

AEM 468. Flight Dynamics & Control II. 4 sem. hrs.
Linear equations of motion, dynamic response, state-space methods, fundamentals of classical and modern control theory; flying and handling qualities design criteria; stability augmentation and control augmentation.
Prerequisite(s): AEM 368.

AEM 469. Orbital Mechanics. 3 sem. hrs.
Introduction to engineering application of celestial mechanics; high-speed, high-altitude aerodynamics; and other fields related to the contemporary problems of space vehicles. Fundamentals of applied dynamics, nomenclature of space flight, space environment and solar system, and two-body orbits. Kepler's laws, coordinate transformations, and related studies.
Prerequisite(s): MATH 238 and AEM 264.

AEM 470. Mechanical Vibrations. 3 sem. hrs.
Free and forced vibrations, both undamped and damped. Systems with many degrees of freedom are formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): AEM 264 and MATH 238 and AEM 250.

AEM 471. Fundamentals Of Acoustics. 3 sem. hrs.
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.
Prerequisite(s): MATH 238 and PH 106 and ECE 320.

AEM 480. Intro Computer Fluid Dynamics. 3 sem. hrs.
Analyses of aerodynamic flow problems using a digital computer.
Prerequisite(s): AEM 311 and AEM 349.

AEM 491. Special Problems. 1-6 sem. hr.
Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 492. Special Problems. 3 sem. hrs.
Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 495. Senior Seminar. 2 sem. hrs.
Selected topics from recent developments in the aeronautical and space engineering fields. There are visiting lecturers and extensive student participation. Several nontechnical topics of immediate interest to seniors are explored. Each student must complete a personal resume. Writing proficiency is required for a passing grade in this course.
Prerequisite(s) with concurrency: AEM 402.

Department of Chemical and Biological Engineering

The BSChE degree is a professional degree that prepares graduates for employment and graduate study in chemical engineering and related fields, as well as entry into professional programs such as medicine, dentistry, law and business.

Chemical engineers apply economics, chemistry, biology, physics and mathematics to the design and operation of processes and to the research and development of new materials, processes and systems. The many and varied issues associated with going from concept to demonstration to operation of processes and equipment all fall within the province of chemical engineering. Chemical engineers are as comfortable with plant operations, research and development projects, synthesis of alternative fuels, energy conservation and conversion, process design, optimization and control, environmental conservation and pollution prevention, as they are with the exciting fundamental studies associated with biotechnology, nanotechnology, electrochemical technology and other areas yet to be discovered.

The BSChE degree and curriculum place strong emphasis on the basic sciences, but a vital feature remains the high degree of confidence and practical ability gained from laboratory and design courses. Laboratories include equipment needed to study and demonstrate heat, mass and momentum transfer; material and energy balances; process dynamics and control; chemical reaction systems including catalysis; and thermodynamics. A full-time technician who is a qualified machinist maintains the laboratories. The Basics Laboratory course covers fundamental principles to reinforce the basic courses within the chemical engineering curriculum. The Unit Operations Laboratory course contains pilot scale process units and other pieces of equipment that allow students to build, operate and analyze results collected during their operation. The Chemical and Biological Engineering High Bay Facility provides state-of-the-art visualization equipment for research and instruction in continuous and batch distillation and reaction engineering. A high-pressure chemical reaction facility is also available for experimental studies and demonstrations of chemical reactions. Individual faculty member research laboratories give students the opportunity to work one-on-one with faculty in special problems courses.

Design is paramount to an engineering education. It is the salient feature that distinguishes engineering from other professional degree programs. Engineering design is the process of devising a system, component, process or product to meet desired needs. It is a decision-making process in which the basic sciences, mathematics and engineering sciences are applied to convert resources optimally to meet stated objectives.

The Chemical and Biological Engineering Design component of this curriculum includes development of student creativity, use of open-ended problems,

development and use of modern design theory and methodology, formulation of design problem statements and specifications, consideration of alternative solutions, feasibility analyses, concurrent engineering design, technical research, and detailed system descriptions. The introduction of realistic constraints, such as economic factors, safety, reliability, aesthetics, ethics, and environmental and social impacts, are used to fully develop each design experience.

Program Objectives

Chemical and biological engineering graduates are expected to:

- apply fundamental principles of chemical and biological engineering in problem solving and design
- communicate effectively in writing and speaking
- understand the responsibility to society in the context of global, environmental, ethical and safety concerns

Special Features

While the baccalaureate degree curriculum contains many courses designed to sequentially introduce students to methodologies for understanding, defining and solving a broad array of increasingly complex problems, there are elements in the program that also allow students to investigate exciting and challenging issues that often exist at the intersections where engineering and the sciences meet. Some of the elective and special program options are described below.

Chemical and Biological Engineering Honors Program

The departmental honors program complements programs offered through the UA's Honors College (CBH, IHP). The highlight of the ChBE honors program is a one-hour forum that focuses on emerging topics of interest in the field. In addition to this course, six hours of departmental honors course credits may be scheduled through the CHE 498 Honors Special Problems /CHE 499 Honors Special Problems sequence or as other designated courses. These credits may include one-on-one undergraduate research experiences, co-op or internship-for-credit experiences, work/study-abroad-for-credit experiences, and courses designed to be taken for joint undergraduate/graduate credit in the Scholars Program leading to advanced degree study. Five additional hours of honors credit must be taken from courses within the ChBE curriculum, and six further hours of honors credits must be earned from any of the University-wide honors programs. The chemical engineering honors courses may, in turn, be used to satisfy the requirements in the University-wide honor program(s) selected. Special recognition for completing these programs is given at the time of graduation.

Eligibility

- Incoming freshmen: ACT of 28 or better or SAT of 1240 or better
- Transfer students: cumulative college grade point average of 3.3 or better and 28 ACT/1240 SAT
- Current UA students: cumulative UA grade point average of 3.3 or better

Requirements for Recognition as Graduating with ChBE Honors

- Completion of the course requirements for the BS degree in Chemical Engineering
- Maintenance of a 3.3 grade point average in all undergraduate coursework
- Completion of 18 hours of honors coursework:
  - 12 hours in the ChBE curriculum:
    - One hour of ChBE Honors Forum
    - Six hours of ChBE-designated courses
    - Five hours of any courses in the ChBE curriculum
  - Six hours of additional honors courses from within or outside the ChBE curriculum
  - Experiential-based coursework
  - Three hours must be experience-based, such as undergraduate research, co-op for credit, work internship for credit, undergraduate design or a research experience at another university (REU)
  - Examples of Honors Courses Offered in ChBE:
    - Independent Research or Design Projects
    - ChBE Electives in Polymers, Electronic Materials, Biochemical Engineering, Tissue Engineering, or Health and Safety
    - Honors Co-operative Education and Internship Experiences
    - ChBE Honors Forum (explore advanced topics such as Nanotechnology, Hydrogen Fuel Cells, Engineered Medicine or Alternative Energy)

Chemical and Biological Engineering Curriculum

Career Electives, Certificates and Minors Options

Students can explore other areas of personal interest through six hours of career electives as part of the curriculum. Six hours of credit must be selected to fulfill the career electives requirements of the curriculum. This provides students with an option to add breadth to their degree in preparation for the wide variety of careers that chemical engineers pursue after completing the B.S. degree. A student may also select courses through a chemical engineering elective course, an advanced science elective, a biochemistry elective, and an engineering elective. Many of these elective courses can be used as part of obtaining a minor or certificate along with a B.S. degree in Chemical Engineering.

Undergraduate Research Options

Many students elect to take special problems (undergraduate research) to gain valuable hands-on experience in laboratory or computational settings with a faculty member. These courses may be used to satisfy elective course requirements when they are designed to meet the requirements of those course blocks. Products from this activity often include opportunities for making presentations at local and national meetings, co-authoring technical papers, or travel. This kind of activity is particularly helpful to students who wish to pursue advanced degree in chemical engineering or related fields.

Scholars Program

Administered by the University's Graduate School, this program allows eligible students to prepare for advanced study by enrolling in courses that can concurrently satisfy bachelor of science (B.S.) and master of science (M.S.) degree requirements. Enrollment typically is prior to the start of the junior year. The eligibility requirements may be found in the Special Academic Programs section of this catalog.

Dual Chemical and Biological Engineering/Chemistry Major

UA's Department of Chemical and Biological Engineering and the Department of Chemistry offer a dual major program allowing undergraduate students to obtain a dual degree by combining core coursework for both the chemical engineering and chemistry majors. Career and advanced science elective slots in the chemical engineering curriculum are satisfied by courses Chemical Equilibria and Analyses, covering classical methods of quantitative analysis including a laboratory introduction to spectroscopic and chromatographic methods, and Physical Chemistry with Elementary Physical Chemistry Laboratory, while the biology elective slot is fulfilled using Biochemistry I. In addition, Organic Chemistry Laboratory II and a 400-level chemistry elective course are required for a total of seven additional hours which include four additional laboratory hours beyond the chemical engineering degree requirement.

Pre-medical/Pre-dental/Pre-law Options

The baccalaureate degree is a popular study plan for preparation to enter one of the professional programs listed. Acceptance rates for our students are excellent and the preparation that an engineering degree provides makes these tracks desired ones.

Chemical and Biological Engineering Curriculum [1]

Freshman			
Fall	**Hours**	**Spring**	**Hours**
CH 101 or 117	4	BSC 114 or 118	3
CHE 125	1	CH 102 or 118	4
EN 101	3	EN 102	3
MATH 125 or 145	4	MATH 126 or 146	4
ENGR 103	3	History (HI) or Social and Behavioral Sciences (SB)	3
		Elective[2]	
	15		**17**
Sophomore			
Fall	**Hours**	**Spring**	**Hours**
CH 231	3	CH 232	3
CHE 254	4	CH 237	2
MATH 227 or 247	4	CHE 255	4
PH 105	4	MATH 238	3

		PH 106	4		
	15		**16**		

Junior

Fall	Hours	Spring	Hours	Summer	Hours
CHE 304	3	CHE 305	3	CHE 323*	4
CHE 306	3	CHE 324	3	*CHE 323 can be replaced by taking both academic year labs: CHE 321-2 hours (typically Junior spring) and CHE 322-2 hours (typically Senior Fall)	
Engineering Elective (see advisor)	3	CHE 354	3		
History (HI) or Social and Behavioral Sciences (SB) Elective[2]	3	Career Elective (see advisor)[3]	3		
Humanities (HU), Literature (L), Fine Arts (FA) Elective	3	History (HI) or Social and Behavioral Sciences (SB) Elective[2]	3		
	15		**15**		**4**

Senior

Fall	Hours	Spring	Hours
CHE 481	3	CHE 482	3
CHE 493	3	Biological Elective (see advisor)	3
Chemical Engr. Elective (see advisor)	3	Career Elective (see advisor)[3]	3
Humanities (HU), Literature (L), or Fine Arts (FA) Elective	3	Humanities (HU), Literature (L), or Fine Arts (FA) Elective	3
Advanced Science Elective (see advisor)	3	CHE 440 or 540	3
	15		**15**

Total Hours: 127

Dual BS CHE/CH Degree Curriculum [1]

Freshman

Fall	Hours	Spring	Hours
CH 101 or 117	4	BSC 114 or 118	3
CHE 125	1	CH 102 or 118	4
EN 101	3	EN 102	3
MATH 125 or 145	4	MATH 126 or 146	4
ENGR 103	3		
	15		**14**

Sophomore

Fall	Hours	Spring	Hours
CH 231	3	CH 232	3
CHE 254	4	CH 237	2
MATH 227 or 247	4	CH 223	4
PH 105 or 125	4	CHE 255	4
History (HI) or Social and Behavioral Sciences (SB) Elective[2]	3	MATH 238	3
	18		**16**

Junior

Fall	Hours	Spring	Hours	Summer	Hours
CH 338	2	CHE 305	3	CHE 320	4
CHE 304	3	CHE 319	2		
CHE 306	3	CHE 354	3		
CHE 324	3	Humanities (HU), Literature (L), or Fine Arts (FA) Elective	3		
PH 106 or 126	4	Humanities (HU), Literature (L), or Fine Arts (FA) Elective	3		
History (HI) or Social and Behavioral Sciences (SB) Elective[2]	3				
	18		**14**		**4**

Senior

Fall	Hours	Spring	Hours
CHE 481	3	CHE 482	3
CHE 493	3	CH Elective	3
Chemical Engr. Elective (see advisor)	3	Engineering Elective (see advisor)	3
CH 341	3	Humanities (HU), Literature (L), or Fine Arts (FA) Elective	3
CH 343	1	History (HI) or Social and Behavioral Sciences (SB) Elective[2]	3
CH 461	3		
	16		**15**

Total Hours: 130

1 The College of Engineering enforces a C- or higher requirement for any courses that are a prerequisite for another required course.

2 EC 110 Principles of Microeconomics is a recommended SB course.

3 Some undergraduates may qualify to enroll in 500-level courses.

Faculty

Department Head

Van Zee, John W.

Professors

Arnold, David W.

Gupta, Arunava

Lane, Alan M.

Wiest, John M.

Associate Professors

Brazel, Christopher S.

Carlson, Eric S.

Klein, Tonya M.

Ritchie, Stephen M. C.

Turner, C. Heath

Assistant Professors

Bao, Yuping

Bara, Jason E.

Hartman, Ryan L.

Kim, Yonghyun John

Liu, X. Margaret

Wang, Hung-Ta

Adjunct Professors

Clark, Peter E.

Weaver, Mark L.

Courses

CHE 125. Intro To Chemical Engineering. 1 sem. hr.
An introduction to the chemical engineering profession, its history and its career-enabling potential. The course contains selected topics, plant visits and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical and petroleum industries. Offered fall semester only.

CHE 225. Chem Biol Engr Soph Honors. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 254. Che Calculations. 4 sem. hrs.
Study of physical and chemical processes and chemical reactions; material and energy balance calculations for single-phase and multiphase systems; simultaneous energy and material balances.
Prerequisite(s): CHE 125 and CH 101 or CH 117; and MATH 125 or MATH 145
Prerequisite(s) with concurrency: CHE 125.

CHE 255. Chem Engr Thermodynamics. 4 sem. hrs.
Chemical calculations using the first and second laws of thermodynamics, including chemical and phase equilibria, multiphase reacting systems, steady-state and non-steady-state material and energy balances. Computer proficiency is required for a passing grade in this course.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146.

CHE 304. Fluid Flow Operations. 3 sem. hrs.
Equations of momentum and energy transport and their applications to the analysis of fluid process behavior, filtration, fluidization and metering of fluids. Offered fall semester only.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146
Prerequisite(s) with concurrency: CHE 254.

CHE 305. Separation Processes. 3 sem. hrs.
Unified approach to the basic calculations and fundamental concepts involved in the design of equilibrium-stage separations processes and continuous contacting equipment. Computer proficiency is required for a passing grade in this course. Offered spring semester only.
Prerequisite(s): CHE 255.

CHE 306. Heat Transfer Operations. 3 sem. hrs.
Study of heat transfer and its application in the design of specific processes and process equipment. Offered fall semester only.
Prerequisite(s): CHE 254 and CHE 304
Prerequisite(s) with concurrency: CHE 304.

CHE 319. Basic Chem Eng Lab. 2 sem. hrs.
Basic chemical engineering measurements and calculations: temperature, pressure, thermal transport rates, fluid flow rates and energy losses, material properties and specifications. Offered spring semester only.
Prerequisite(s): CHE 255.

CHE 320. Operations Laboratory. 4 sem. hrs.
Operations of chemical engineering. Course includes problems and reports based on performance tests. Writing proficiency within this discipline is required for a passing grade in this course. Offered summer semester only.
Prerequisite(s): CHE 305 and CHE 306.

CHE 324. Transport Phenomena. 3 sem. hrs.
Development of the conservation equations for mass, momentum and energy with application to steady-state and transient chemical processes. Computer proficiency is required for a passing grade in this course. Offered fall semester only.
Prerequisite(s): MATH 238 and CHE 255
Prerequisite(s) with concurrency: MATH 238 and CHE 255.

CHE 325. Chemical Honors Forum. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 354. Chemical Reactor Design. 3 sem. hrs.
Reaction rate equations and comparisons with experimental data; use of rate information for the design of chemical reactors.
Prerequisite(s): CHE 255 MA 238.

CHE 412. Polymer Materials Engineering. 3 sem. hrs.
Introduction to the manufacture, processing and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers.
Prerequisite(s): CH 102 or CH 118.

CHE 418. Tissue Engineering. 3 sem. hrs.
Tissue Engineering is an emerging dynamic, experimental science in which engineering and biological science principles are used to develop techniques for improving or restoring the structure and function of tissue.

CHE 425. Chemical Honors Forum. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 440. Health Safety Chem Process Ind. 3 sem. hrs.
Health and safety in the chemical process industry that will introduce chemical engineering students to health and safety, regulations and the designs and procedures to meet them in the chemical process. Advanced topics will also be introduced, including current relevant topics such as recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis.
Prerequisite(s): CH 102 or CH 118.

CHE 445. Intro Biochemical Engineering. 3 sem. hrs.
Study of biological processes; application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth and metabolic processes.
Prerequisite(s): CH 231.

CHE 481. Cheml Process Design I. 3 sem. hrs.
Technical and economic design of chemical processes and plants. Offered fall semester only.
Prerequisite(s): CHE 255.

CHE 482. Cheml Process Design II. 3 sem. hrs.
Optimal design of chemical processes and plants. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semester only.
Prerequisite(s): CHE 481.

CHE 491. Special Problems. 1-3 sem. hr.
Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 492. Special Problems. 1-3 sem. hr.
Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 493. Process Dynamics & Control. 3 sem. hrs.
Development of model equations that describe the unsteady-state behavior of chemical processes; automatic control design and analysis emphasizing time-domain methods; introduction to digital computer control. Offered fall semester only.
Prerequisite(s): CHE 255 and MATH 238.

CHE 495. Undergrad Honors Seminar. 1 sem. hr.
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 496. Undergrad Honors Seminar. 1 sem. hr.
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 498. Honors Special Problems. 1-3 sem. hr.
Credit is based on the amount of work undertaken. Research or practical study in a chemical engineering area, the outcome of which is a definite result presented in a report, paper, or manuscript. Instructor permission required.

CHE 499. Honors Special Problems. 1-3 sem. hr.

Department of Civil, Construction and Environmental Engineering

Office: 260 H.M. Comer Hall

Civil, construction and environmental engineers design and build the local communities in which we all live and work. They also work globally to make positive change in the world. Civil, construction and environmental engineers are in high demand and make a difference locally and globally from planning the public parks in our own neighborhoods to providing clean and safe drinking water to children in refugee camps a world away, from designing and constructing the modern sports stadiums to environmentally cleaning-up polluted lakes and streams, and from creating a new and efficient public transportation networks to developing smart materials for our next generation of infrastructure.

The American Society of Civil Engineers (ASCE) states the following vision for civil, construction and environmental engineers in the year 2025: Entrusted by society to create a sustainable world and enhance the global quality of life, civil engineers serve competently, collaboratively and ethically as master:

- planners, designers, constructors and operators of the built environment
- stewards of the natural environment and its resources

- innovators and integrators of ideas and technology across the public, private and academic sectors
- managers of risk and uncertainty caused by natural events, accidents and other threats
- leaders in discussions and decisions shaping public environmental and infrastructure policy

Civil, construction and environmental engineering provides a full breadth of opportunities for those who, for example, dream of designing and constructing structures from roller coasters to sky scrapers, design new water purification and distribution systems that provide clean and safe drinking water, or create tomorrow's safe and sustainable transportation systems to move people and goods efficiently.

The department's comprehensive and flexible set of programs provides students with the knowledge, skills and attributes necessary to successfully enter the profession and lead exciting, fulfilling careers. Students may choose between two undergraduate majors, the bachelor of science in civil engineering (BSCE) and the bachelor of science in construction engineering (BSConE). Additionally, students may elect to supplement their degree with one of the department minors: architectural engineering, civil engineering (for non-civil majors), construction engineering (for non-construction majors), environmental and water resources engineering, structural engineering, and transportation engineering.

Program Objectives

The objectives of The University of Alabama bachelor of science in civil engineering (BSCE) and bachelor of science in construction engineering (BSConE) programs are to graduate students who are in demand by employers and graduate programs and who lead fulfilling professional careers through their abilities to:

- apply foundational knowledge of mathematics, science, humanities and social sciences in the professional practice of civil or construction engineering
- synthesize technical knowledge of engineering analysis and design to identify, formulate and solve civil or construction engineering problems
- demonstrate the professional practice skills needed to be successful in civil or construction engineering

Student Learning Outcomes

The BSCE and BSConE student learning outcomes are formulated into three categories:

Foundational Outcomes

1. Solve problems in mathematics through differential equations, probability and statistics, calculus-based physics, general chemistry, and one additional area of science.
2. Explain the importance of (1) humanities, literature and fine arts, and (2) history and social behavior in the professional practice of civil or construction engineering.

Technical Outcomes

1. Analyze and solve problems in material science and engineering mechanics.
2. Select and conduct program-relevant civil or construction engineering experiments to meet a need, and analyze and evaluate the resulting data.
3. Apply relevant knowledge, techniques, skills and modern engineering tools to identify, formulate and solve engineering problems, including:
   - for the BSCE – problems in at least four technical areas appropriate to civil engineering
   - for the BSConE – problems in construction processes, communications, methods, materials, systems, equipment, planning, scheduling, safety, economics, accounting, cost analysis and control, decision analysis, and optimization
4. Explain the impact of historical and contemporary issues on civil or construction engineering.
5. Develop solutions to well-defined project management problems within civil or construction engineering.
6. Design a system or process in more than one program-relevant civil or construction engineering specialty field to meet desired needs, including sustainability and within other realistic constraints such as economic, environmental, social, political, ethical, health and safety, and constructability.
7. Explain key aspects of at least one traditional or emerging program-relevant area of advanced specialization.

Professional Practice Outcomes

1. Analyze a situation involving multiple conflicting professional, legal and ethical interests to determine an appropriate course of action.
2. Organize and deliver effective written, verbal, graphical and virtual communications.
3. Demonstrate the ability to learn through independent study, without the aid of formal instruction.
4. Demonstrate attributes supportive of the professional practice of engineering, apply leadership principles to direct the efforts of a small group to solve a relatively constrained problem, and function effectively as a member of a multidisciplinary team to solve open-ended engineering problems.
5. Explain the importance of licensure and basic concepts in engineering management, business, law, public administration, public policy and globalization as related to the professional practice of civil or construction engineering.

All students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation.

Civil Engineering Curriculum

Senior plan of study electives must be CE courses numbered 400 or above or other approved electives. Other courses may be approved by petition. At least six hours of the senior electives must be design-designated (D) courses. In addition, not more than two senior electives may be professional practice (P) courses, including any non-civil engineering courses. See the department for a list of approved senior design electives, including approved design-designated (D), professional practice (P) and general technical (G) electives.

Freshman

Fall	Hours	Spring	Hours
CE 121 or ENGR 111	1	ENGR 171	1
ENGR 103	3	MATH 126	4
MATH 125	4	PH 105	4
EN 101	3	EN 102	3
CH 101	4	History (HI) or social and behavioral sciences (SB) elective[2]	3
	15		**15**

Sophomore

Fall	Hours	Spring	Hours
CE 260	2	CE 262	3
AEM 201	3	AEM 250	3
MATH 227	4	AEM 264	3
Approved natural science (N) elective [1]	4	MATH 238	3
Humanities (H), literature (L), or fine arts (FA) elective[2]	3	PH 106 or CH 102	4
	16		**16**

Junior

Fall	Hours	Spring	Hours
CE 331	3	CE 320	3
CE 340	4	CE 366	3
CE 350	3	CE 378	3
AEM 311	3	ECE 320 or ME 216	3
History (HI) or social and behavioral sciences (SB) elective[2]	3	History (HI) or social and behavioral sciences (SB) elective[2]	3
	16		**15**

Senior

Fall	Hours	Spring	Hours
Senior (plan of study) electives[3]	9	CE 401 or 403	4
COM 123	3	Senior (plan of study) electives[3]	9
GES 255	3	Humanities (H), literature (L), or fine arts (FA) elective[2]	3
	15		**16**

Total Hours: 124

[1] Approved natural science (N) electives include: BSC 114 Principles Of Biology I /BSC 115 Laboratory Biology I, GEO 101 The Dynamic Earth, GEO 102 The Earth Through Time, GEO 105 Sustainable Earth, GY 101 Atmospheric Proc & Patterns and GY 102 Earth Surface Processes.

2 A six-hour sequence in either HI/SB or HU/L/FA core classes is required. Students are encouraged to consider EC 110 Principles of Microeconomics as an SB, CE 220 Society Infrastruct & Environm as an SB, and/or a foreign language as an HU.

3 Senior (plan of study) electives must be CE courses numbered 400 or above or other approved electives. Other courses may be approved by petition. At least six hours of the senior electives must be design-designated (D) courses. In addition, not more than two senior electives may professional practice (P) courses, including any non-civil engineering courses. See the department list for a list of approved senior design electives, including approved design-designated (D), professional practice (P), and general technical (G) electives.

Students must take either CE 121 Intro Civil Constrctn Envir Eg or ENGR 111 Engineering for the Future (1 hour). Prerequisite for ENGR 111 Engineering for the Future is MATH 110 Finite Mathematics (so students are taking MATH 112 Precalculus Algebra or MATH 113 Precalculus Trigonometry or MATH 115 Precalc Algebra & Trig or Calculus or higher).

Students should take ENGR 103 Engineering Foundations. Students no longer take ENGR 131 Eng. Concepts & Design I and ENGR 141 Eng. Concepts & Design II and ENGR 151 Fundamental Eng. Graphics (this course replaces those three one-hour courses). Prerequisite for ENGR 103 Engineering Foundations is MATH 113 Precalculus Trigonometry or MATH 115 Precalc Algebra & Trig (the students must be in Calculus or higher).

All civil engineering students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation. A graduate of the program who has passed the FE exam would then be an Engineer Intern under Model Law as maintained by the National Council of Examiners for Engineering and Surveying (ncees.org). It is recommended that the FE be taken the semester prior to graduation.

Related department policies and updates of catalog information are posted on the department website and message boards.

Construction Engineering Curriculum

Freshman			
Fall	**Hours**	**Spring**	**Hours**
CE 121 or ENGR 111	1	ENGR 171	1
ENGR 103	3	MATH 126	4
MATH 125	4	PH 105	4
EN 101	3	EN 102	3
CH 101	4	History (HI) or social and behavioral sciences (SB) elective[2]	3
	15		**15**
Sophomore			
Fall	**Hours**	**Spring**	**Hours**
CE 260	2	CE 262	3
AEM 201	3	AEM 250	3
MATH 227	4	AEM 264	3
Approved natural science (N) elective[1]	4	MATH 238	3
Humanities (H), literature (L), or fine arts (FA) elective[2]	3	PH 106 or CH 102	4
	16		**16**
Junior			
Fall	**Hours**	**Spring**	**Hours**
CE 366	3	CE 463	3
CE 340	4	CE 462	3
CE 331	3	CE 418	3
Engineering systems elective[3]	3	Engineering systems elective[3]	3
History (HI) or social and behavioral sciences (SB) elective[2]	3	History (HI) or social and behavioral sciences (SB) elective[2]	3
	16		**15**
Senior			
Fall	**Hours**	**Spring**	**Hours**
CE 468	3	CE 402 or 404	4
CE 461	3	CE 464	3
GES 255	3	Senior (plan of study) electives[5]	6
Senior (plan of study) elective[5]	3	Humanities (H), literature (L), or fine arts (FA) elective[2]	3
COM 123	3		
	15		**16**

Total Hours: 124

1 Approved natural science (N) electives include: BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, GEO 101 The Dynamic Earth, ECE 320 Fundmtl Electrical Engr, ME 216 Thermal Engineering Survey, AEM 311 Fluid Mechanics and GY 102 Earth Surface Processes.

2 A six-hour sequence in either HI/SB or HU/L/FA core classes is required. Students are encouraged to consider EC 110 Principles of Microeconomics as an SB, CE 220 Society Infrastruct & Environm as an SB, and/or a foreign language as an HU.

3 Students must complete six hours of systems electives chosen from: ECE 320 Fundmtl Electrical Engr, ME 216 Thermal Engineering Survey and AEM 311 Fluid Mechanics.

4 Please see an adviser prior to enrolling. Co-op experience may be substituted with prior approval. See an adviser for additional information.

5 Senior (plan of study) electives must include at least one course in project management (PM) and at least one course in design (CD); one course may be a general technical elective (GT). See the department for a list of approved electives including approved project management (PM), design (CD) and general technical (GT) electives.

Students must take either CE 121 Intro Civil Constrctn Envir Eg or ENGR 111 Engineering for the Future. Prerequisite for ENGR 111 Engineering for the Future is MATH 110 Finite Mathematics (so students are taking MATH 112 Precalculus Algebra or MATH 113 Precalculus Trigonometry or MATH 115 Precalc Algebra & Trig or Calculus or higher).

Students should take ENGR 103 Engineering Foundations. Students no longer take ENGR 131 Eng. Concepts & Design I, ENGR 141 Eng. Concepts & Design II and ENGR 151 Fundamental Eng. Graphics (this course replaces those three one-hour courses). Prerequisite for ENGR 103 Engineering Foundations is MATH 113 Precalculus Trigonometry or MATH 115 Precalc Algebra & Trig (the students must be in Calculus or higher).

All construction engineering students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation. A graduate of the program who has passed the FE exam would then be an Engineer Intern under Model Law as maintained by the National Council of Examiners for Engineering and Surveying (ncees.org). It is recommended that the FE be taken the semester prior to graduation.

Related department policies and updates of catalog information are posted on the department website and message boards.

Departmental Honors Program

The Department of Civil, Construction and Environmental Engineering offers an undergraduate honors program for students who seek to be challenged by both independent and team projects, and who wish to receive additional distinction with their undergraduate degrees. This individually tailored program culminates with awarding of a Department Honors Certificate and recognition at the Honors Day Ceremony in the student's senior year.

Requirements for the Bachelor of Science in Degree with Honors

The requirements for the Bachelor of Science in Civil Engineering with honors and the Bachelor of Science in Construction Engineering with honors are as follows:

1. Completion of the course requirements for the BS degree in civil engineering or construction engineering.
2. Maintenance of at least a 3.3 GPA in all civil engineering courses, as well as a 3.3 cumulative GPA in all undergraduate coursework
3. Completion of 12 hours of approved civil engineering courses using honors credit by contract. The professor and the honors student enter a contract by which the student agrees to additional work to receive honors credit. The following courses are guaranteed available for honors by contract:

CE 260	Civil & Construction Surveying	2
CE 320	Intro Environmental Engineerg	3
CE 366	Introduction to Construction Engineering	3
CE 378	Water Resources Engineering	3
CE 433	Reinf Concrete Struct I	3

4. While the above courses are available for the Departmental Honors Program, they are not required. Other CE courses are available and can be included as part of the required 12 hours of honors credit by contract. Courses other than those listed above taken for honors credit require instructor and departmental approval. Student should contact the instructor for availability.
5. Completion of an honors undergraduate thesis. Students must work directly with a department faculty member on a problem of common interest. Credit for the thesis work is given through completion of three credit hours of the following course: CE 491 Special Problems. Credit for the honors thesis also is accepted as a CE elective within the civil or construction engineering curriculum.

Students enrolled in the Civil, Construction and Environmental Engineering Departmental Honors Program are also encouraged to participate in one of the three University-wide honors programs (University Honors Program, Computer-Based Honors Program or International Honors Program).

Students interested in the Civil, Construction and Environmental Engineering Departmental Honors Program should contact the department office or their academic advisers for further details.

Department Minors and Certificates

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction and Environmental Engineering; Room 260, H.M. Comer Hall; (205) 348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

Requirements for the Minor in Architectural Engineering

- a minimum of 22 credit hours
- required courses (10 credit hours) — CE 331 Intro to Structural Eng., CE 366 Introduction to Construction Engineering, CE 403 Civil Eng. Prj. Bld. Design or CE 404 Constr. Eng. Prj. Bldg. Des.
- approved electives (minimum of 12 hours) — courses must be approved in at least two of the following areas: structural engineering and design, building mechanical systems, and/or construction engineering and management

Requirements for the Minor in Civil Engineering

- a minimum of 25 credit hours
- required courses (19 credit hours) — CE 320 Intro Environmental Engineerg, CE 331 Intro to Structural Eng., CE 340 Geotechnical Engineering, CE 350 Intro. to Transportation Eng, CE 366 Introduction to Construction Engineering and CE 378 Water Resources Engineering
- approved electives (minimum of six hours) — courses must be an approved civil engineering senior (400-level) electives

Requirements for the Minor in Construction Engineering

- a minimum of 18 credit hours
- required courses (12 credit hours) — CE 366 Introduction to Construction Engineering, CE 464 Safety Engineering, CE 461 Horizontl Construction Methods or CE 462 Vertical Construction Methods, and CE 463 Construction Cost Estimating or CE 468 Construction Scheduling
- approved electives (minimum of six credit hours) — courses must be an approved senior (400-level) electives; students may take both CE 461 Horizontl Construction Methods and CE 462 Vertical Construction Methods and/or both CE 463 Construction Cost Estimating and CE 468 Construction Scheduling to satisfy the requirements of the minor

Requirement for the Environmental and Water Resources Engineering

- a minimum of 18 credit hours
- required courses (12 credit hours) — CE 320 Intro Environmental Engineerg, CE 378 Water Resources Engineering, CE 422 Solid And Hazardous Waste Mgt and CE 425 Air Quality Engineering
- approved electives (minimum of six credit hours) — courses must be an approved civil engineering elective

Requirements for the Minor in Structural Engineering

- a minimum of 15 credit hours
- required courses (12 credit hours) — CE 331 Intro to Structural Eng., CE 432 Adv Structural Analysis, CE 433 Reinf Concrete Struct I and CE 434 Structural Steel Design I
- approved electives (minimum of three credit hours) — courses must be an approved civil engineering elective

Requirements for the Minor in Transportation Engineering

- a minimum of 15 credit hours
- required courses (six credit hours) — CE 350 Intro. to Transportation Eng and CE 458 Traffic Engineering
- approved electives (minimum of nine credit hours) — courses must be an approved senior (400-level) elective

Requirements for the Environmental Engineering Certificate

Engineering students may earn the certificate in environmental engineering in addition to their bachelor of science (BS) degree. Students must complete 12 hours of environmental engineering courses from an approved list. Many of these courses are commonly acceptable for credit toward the BS degree; however, of the 12 hours, at least six must be in addition to the BS degree requirements. Please see an adviser for a list of approved environmental engineering certificate courses. Other courses may be approved by petition.

Requirements for the Construction Management Certificate

The certificate in construction management is primarily designed for non-engineering majors. The certificate is noted on transcripts and is awarded to students who complete 12 hours of construction management courses from the approved list. Many of these courses are commonly acceptable for credit toward the degree; however, of the 12 hours, at least six must be in addition to the student's bachelor degree requirements. Please see an adviser for a list of approved environmental engineering certificate courses. Other courses may be approved by petition.

Faculty

Department Head

Fridley, Kenneth J.

Director, Construction Engineering Program

Back, W. Edward

Director, Environmental Institute

Ernest, Andrew

Director, University Transportation Center for Alabama

Lindly, Jay K.

Professors

Batson, Robert G.

Durrans, S. Rocky

Ernest, Andrew

Fridley, Kenneth J.

Johnson, Pauline D.

Lindly, Jay K.

Moynihan, Gary P.

Pitt, Robert

Ray, Paul S.

Associate Professors

Back, Edward W.

Graettinger, Andrew

Johnson, Philip W.

Jones, Steven, Jr.

Richardson, James A.

Tootle, Glenn

Triche, Michael H.

Wang, Jialai

Williamson, Derek G.

Assistant Professors

Dao, Thang N.

Elliott, Mark

Giannini, Eric

Lou, Yingyan

Song, Wei

Courses

CE 121. Intro Civil Constrctn Envir Eg. 1 sem. hr.
Introduce the student to the areas of professional, civil and environmental engineering practices with exposure to faculty members specializing in each area, solving typical problems in each professional area, learning of the activities of service organizations, and the responsibilities of professional practice.

CE 220. Society Infrastruct & Environm. 3 sem. hrs.
Permitting, environmental impact statements and other environmental issues associated with human activities and engineering projects.

CE 260. Civil & Construction Surveying. 0-2 sem. hrs.
Precise measurement of lengths, angles, areas, and elevations in geodetic systems; computation of construction control, including highway alignment and land areas.
Prerequisite(s): (ENGR 161 or ENGR 171 or ART 131) and Math 115 or (Math 112 and Math 113) or ACT 30 or SAT 680 or PLMA 440 or PLAC 565.

CE 262. Civil & Constructn Engr Matls. 0-3 sem. hrs.
Introduction to the engineering properties of structural materials, including steel, wood, aggregate, concrete and asphalt, including experimental testing procedures and interpretation of results.
Prerequisite(s): AEM 201 or ESM 201; and
Prerequisite(s) with concurrency: AEM 250.

CE 270. Climate and Climate Change: European Alps. 4 sem. hrs.
The course focuses on hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA.

CE 320. Intro Environmental Engineerg. 3 sem. hrs.
Introduction to the scientific and engineering principles needed to analyze and solve environmental engineering problems, and lab experience in the practice of environmental engineering related to air, water and waste water management. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 101 OR CH 117 min grade of C-
Prerequisite(s) with concurrency: AEM 311 and CHE 304.

CE 331. Intro to Structural Eng. 3 sem. hrs.
Introduction and principles of structural analysis of determinate and indeterminate structures. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250 and CE 262.

CE 340. Geotechnical Engineering. 4 sem. hrs.
Static and dynamic interaction of soil and water; theories of stress distribution, consolidation, strength and failures; stability of soil structures.
Prerequisite(s): CE 262 and AEM 250.

CE 350. Intro. to Transportation Eng. 3 sem. hrs.
An introduction to different modes of transportation with emphasis on roadway and traffic engineering. Topics include transportation economics and planning, highway geometric and pavement design, drainage, construction, traffic control devices, traffic operations, and management and highway capacity analysis.
Prerequisite(s): CE 260 GES 255.

CE 366. Introduction to Construction Engineering. 3 sem. hrs.
Applying engineering economic principles to construction and engineering problems; construction management processes and methods in planning, scheduling, and monitoring engineering projects.
Prerequisite(s): CE 262.

CE 378. Water Resources Engineering. 3 sem. hrs.
Mechanics of steady and unsteady flow in closed and open conduits, hydrology; water supply and wastewater disposal. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Dynamics (AEM 264) and Fluid Mechanics (AEM 311); or Fluid Flow Operations (ChE 304).

CE 401. Civil Eng. Des. Prj. Site Dev. 4 sem. hrs.
Use of software to design projects in teams, prepare construction drawings and deliver engineering reports. This class is normally taken during the last term on campus. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): CE 320 with a minimum grade of C- And CE 350 with a minimum grade of C- And CE 378 with a minimum grade of C- And Six (6) credit hours of 400- or 500- level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 424 or CE 524 CE 425 or CE 525 CE 427 or CE 527 CE 442 or CE 542 CE 451 or CE 551 CE 457 or CE 557 CE 459 or CE 559 CE 475 or CE 575 CE 485 or CE 585.

CE 402. Constr. Eng. Proj. Site Dev. 4 sem. hrs.
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): CE 340 and CE 366 and (CE 320 or CE 350 or CE 378) and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ Concurrency: At least two of the following construction design-designated (CD) courses: CE 442 or CE 542 CE 457 or CE 557 CE 459 or CE 559 CE 461 or CE 561 CE 485 or CE 585.

CE 403. Civil Eng. Prj. Bld. Design. 4 sem. hrs.
Students use software to design building projects in teams, prepare construction drawings and deliver engineering reports. Required for minor in architectural engineering. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Prereq: CE 331 and CE 340 and CE 366 and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ Concurrency: At least two of the following design-designated (D) electives: CE 433 CE 434 CE 436 or CE 536 CE 437 or CE 537 CE 438 or CE 538 CE 439 or CE 539 CE 444 or CE 544 CE 462 or CE 562.

CE 404. Constr. Eng. Prj. Bldg. Des. 4 sem. hrs.
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Prereq: CE 331 and CE 340 and CE 366 and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ concurrency: At least two of the following construction design-designated (CD) courses: CE 433 CE 434 CE 436 or CE 536 CE 437 or CE 537 CE 438 or CE 538 CE 439 or CE 539 CE 444 or CE 544 CE 462 or CE 562.

CE 414. Information Systems Design. 3 sem. hrs.
An overview of management information systems (MIS). The course will focus on the practical aspects, applications and methodology or MIS, particularly from the construction engineer's perspective. Information design methodology and building information modeling (BIM) will be covered in detail.
Prerequisite(s): CE 366.

CE 417. Advanced Project Management. 3 sem. hrs.
This is an engineering management course designed to introduce students to the functions of project engineering and managers. It details the processes of planning and controlling project scope time and cost.
Prerequisite(s): CE 366 or IE 203
Prerequisite(s) with concurrency: GES 255.

CE 418. Engineering Management. 3 sem. hrs.
An introduction to management principles and the management functions of planning, organizing, motivating and controlling. Management of engineers in research, design, manufacturing/construction and quality will be studied.
Prerequisite(s): CE 366.

CE 422. Solid And Hazardous Waste Mgt. 3 sem. hrs.
Engineering design and regulatory requirements for the collection, storage, recycling, treatment and disposal of solid wastes.
Prerequisite(s): CE 320.

CE 423. Hazrdous Chem Releasd to Envir. 3 sem. hrs.
Chemical fate and transport in the environment. Frequency and magnitude of accidents involving hazardous materials. Effects of these releases on the community.
Prerequisite(s): CE 320 and CE 378 and CE 425.

CE 424. Water And Wastewater Treatment. 3 sem. hrs.
Physical, chemical and biological principles and design of municipal water and wastewater treatment units.
Prerequisite(s): CE 320.

CE 425. Air Quality Engineering. 3 sem. hrs.
This is an introductory course in Air Quality Engineering. We have to major foci. The first is to understand and evaluate our air resources and air quality (as related to human and environmental health) in terms of fundamental principels and design processes. The second is to introduce the student to a varity of air pollution issues and engineered treatment processes.
Prerequisite(s): AEM 311 or CHE 304; and CE 320.

CE 427. Storm Water Management. 3 sem. hrs.
Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics, Selection and design of controls; regulations.
Prerequisite(s): CE 378 and CE 475.

CE 430. Design of Masonry Structures. 3 sem. hrs.
Design of un-reinforced and reinforced masonry walls, columns, pilasters, beams and lintels.
Prerequisite(s): CE 331.

CE 432. Adv Structural Analysis. 3 sem. hrs.
Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.
Prerequisite(s): CE 331.

CE 433. Reinf Concrete Struct I. 3 sem. hrs.
Concrete materials, placement of concrete and theory and design of reinforced beams, girders, slabs, columns and footings.
Prerequisite(s): CE 331.

CE 434. Structural Steel Design I. 3 sem. hrs.
Theory and design of structural steel members and their connections.
Prerequisite(s): CE 331.

CE 436. Wood Structural Design. 3 sem. hrs.
Modern timber engineering: design of beams, columns, trusses and floor systems.
Prerequisite(s): CE 331.

CE 437. Reinforcd Concrete Struct II. 3 sem. hrs.
Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slap-on-grade and retaining walls.
Prerequisite(s): CE 433.

CE 438. Struct Steel Design II. 3 sem. hrs.
Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multistory buildings, highway bridges and light-gauge steel structures.
Prerequisite(s): CE 434.

CE 439. Design of Masonry Structures. 3 sem. hrs.
Design of un-reinforced masonry walls, columns, pilasters, beams and lintels.
Prerequisite(s): CE 331.

CE 442. Waste Containmnt Facilty. 3 sem. hrs.
Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics and aspects of landfill design.
Prerequisite(s): CE 340 and CE 320.

CE 444. Foundation Engineering. 3 sem. hrs.
Analysis and design of soil foundation systems.
Prerequisite(s): CE 340.

CE 451. Geometrc Design Roadways. 3 sem. hrs.
Application of the principles of geometric design: alignment, vertical control, drainage, traffic control, interchanges and intersections. Design projects will be prepared to illustrate standard techniques.
Prerequisite(s): CE 350.

CE 452. Traffic Safety Transptn Secur. 3 sem. hrs.
Introduction to traffic safety techniques: site identification, data gathering and analysis, accident reconstruction, safety treatment selection, resource prioritization, and design projects.
Prerequisite(s): CE 350.

CE 454. Urban Transportation Planning. 3 sem. hrs.
The course will provide a foundation in urban transportation planning, including an introduction to the planning process, software associated with transportation modeling and conducting transportation planning and traffic impact studies.
Prerequisite(s): CE 350.

CE 456. Transportation System Anyls. 3 sem. hrs.
This course integrates the basic concepts and tools of systems analysis, including those from microeconomics, optimization, project evaluation and decision-making into the context of transportation planning and management.
Prerequisite(s): CE 350.

CE 457. Pavemnt Design/Construct. 3 sem. hrs.
The thickness design of base, subbase, asphalt and concrete layers for highway pavements, including both design and construction aspects.
Prerequisite(s): CE 350.

CE 458. Traffic Engineering. 3 sem. hrs.
Vehicle operating characteristics, traffic flow, geometric design of road and intersections, and methods of traffic control.
Prerequisite(s): CE 350.

CE 459. Pavement Design and Rehabilitation. 3 sem. hrs.
This course covers two areas concerning care of existing highway asphalt and concrete pavements. Major maintenance includes overlay design, additional drainage, recycling and slab repair. Routine maintenance includes distress surveys, pothole repair, and crack and joint sealing.
Prerequisite(s): CE 350 or CE 366.

CE 460. Front End Planning. 3 sem. hrs.
Principles and applications for effective, early planning of capital facilities including: finance, economics decision-making, risk management, team alignment and front end planning processes and tools.
Prerequisite(s): CE 366.

CE 461. Horizontl Construction Methods. 3 sem. hrs.
Introduction to horizontal construction equipment and methods, design of horizontal construction systems and construction operation analysis and simulation.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 340.

CE 462. Vertical Construction Methods. 3 sem. hrs.
Introduction to vertical construction equipment and methods, design of vertical construction systems and construction operation analysis and management processess.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 331.

CE 463. Construction Cost Estimating. 3 sem. hrs.
Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tools and techniques, contingency planning, and relationship to contract types and project execution strategies.
Prerequisite(s): CE 366.

CE 464. Safety Engineering. 3 sem. hrs.
An introduction to safety management and accident prevention, including state and federal laws related to general and construction projects. Topics include accident theories, safety regulations, Construction Safety act, hazards and their control, human behavior and safety and safety management.
Prerequisite(s): CE 366GES 255 and CE 366.

CE 467. Constr. Accounting & Finance. 3 sem. hrs.
Financial management of construction projects. Topics include alternative selection, life-cycle analysis, applied financial management techniques, insurance/ indemnification, risk management and tax implications.
Prerequisite(s): CE 366.

CE 468. Construction Scheduling. 3 sem. hrs.
The management structure of construction companies and the laws, regulations, practices, tools, and processes used in planning, scheduling, and monitoring construction projects. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): CE 366.

CE 470. Water Resources in the European Alps. 4 sem. hrs.
The course focuses on statistical hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of statistical software to analyze hydrologic datasets, the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA.

CE 475. Hydrology. 3 sem. hrs.
Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology and hydrologic simulation. Includes a class project with application to flood control, water supply and multipurpose projects.
Prerequisite(s): CE 378.

CE 480. Forensic Engineering. 3 sem. hrs.
When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.
Prerequisite(s): AEM 250.

CE 481. Legal Asp. of Eng and Const. 3 sem. hrs.
Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CE 262 and CE 301 or CE 320 or CE 324 or CE 331 or CE 340 or CE 350 or CE 366 or CE 378.

CE 484. Exp. Design & Field Sampling. 3 sem. hrs.
Experimental design, sensitivity analyses, water sampling and flow monitoring. Receiving water chemical reactions. Field investigations.
Prerequisite(s): CE 320 and GES 255.

CE 485. Const. Site Erosion Control. 3 sem. hrs.
Nature and magnitude of erosion problems. Erosion plan development. Rainfall energy and erosion predictions. Sediment transport in urban areas. Channel and slope stability. Sedimentation and other controls.
Prerequisite(s): CE 378.

CE 491. Special Problems. 1-3 sem. hr.
Credit is based on the amount of work undertaken. Analysis and/or design in any phase of civil engineering. The course is intended to take care of needs not covered by regularly offered courses.

Department of Computer Science

Computer science is a multifaceted discipline that encompasses a broad range of topics. At one end of the spectrum, computer science focuses on the theoretical capabilities of computers and on the properties of various general problems and algorithms. At the other applications-oriented end of the spectrum, computer science deals with techniques for the design and construction of machines and with advanced applications of computers in all aspects of our society. Graduates of the program will be prepared for admission to graduate study or for immediate employment in business, industry or government positions involving computer systems and techniques.

Program Objectives

The mission of the Department of Computer Science is to provide a broad-based, high-quality education in computer science. Our programs will provide its graduates with a body of knowledge and an attitude toward learning that allows them to contribute positively to the profession and, ultimately, to society. In order to accomplish this task, we must provide an academic experience sufficiently rich in both theory and practice to ensure the development of fundamentally sound, skilled graduates.

For our B.S. degree program in computer science, the following set of educational objectives describes what graduates are expected to attain within a few years after graduation:

- successfully engage in professional practice in the computing sciences or apply computer science tools to another field of interest
- pursue advanced study in the computing sciences
- behave in a professional and ethical manner
- communicate both orally and in writing
- work successfully in both independent and team environments

In addition, the following set of student outcomes describe what students are expected to know and do by graduation:

- apply knowledge of computing and mathematics appropriate to the discipline
- analyze a problem and identify and define the computing requirements appropriate to its solution
- design, implement and evaluate a computer-based system, process, component or program to meet desired needs
- function effectively in teams to accomplish a common goal
- understand professional, ethical, legal, security and social issues and responsibilities
- communicate effectively with a range of audiences
- analyze the local and global impact of computing on individuals, organizations and society
- recognize the need for and engage in continuing professional development
- use current techniques, skills and tools necessary for computing practice
- apply mathematical foundations, algorithmic principles and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices
- apply design and development principles in the construction of software systems of varying complexity

Concentration in Software Engineering

In addition to the standard Bachelor of Science in Computer Science degree, the department offers a Concentration in Software Engineering. This concentration will give students a deeper understanding of software engineering, a sub-discipline of Computer Science. This concentration requires 12 hours of CS 400 level software engineering classes, chosen from an approved list. Students who successfully complete this concentration will have the designation indicated in their transcripts.

To complete this concentration, a students must complete the following courses within the Computer Science portion of their B.S. curriculum:

- CS 150 Programming I, CS 160 Computer Science Concepts, CS 250 Programming II, CS 260 Foundations of Comp Science, CS 315 Software Engineering, CS 350 Programming III: Java or CS 351 Programming III: C++, and CS 360 Data Structures & Algorithms (no change from the B.S. curriculum)
- CS 403 Programming Languages, CS 426 Intro Operating Systems, CS 457 Data Base Managm Systems, CS 475 Formal Languag & Machine and CS 495 Capstone Computing (no change from the B.S. curriculum)
- 12 hours of restricted software engineering elective courses selected from an approved list

The current list of approved Software Engineering electives can be found on the Department of Computer Science's website.

This concentration does not require the student to take more than the 120 hours required for the B.S. degree, since six of these course hours replace six hours of CS electives, and the other six hours can be taken from the free electives in the B.S in CS curriculum.

Minors for Computer Science Majors

A minor is not required for students majoring in computer science. However, we strongly encourage all students to combine their individual interests with the free electives in the program to complete a minor in an area of interest to them. For example, computer science majors may earn a minor in mathematics by completing the mathematics courses required by the computer science curriculum plus Calculus III (MATH 227) and one additional math course numbered 300 or above, such as Theory Of Probability (MATH 355) .

Computer Science Curriculum

Freshman

Fall	Hours	Spring	Hours
EN 101	3	EN 102	3
ENGR 103	3	MATH 126	4
ENGR 111 or CS 121	1	CS 250	2
MATH 125	4	CS 260	3
CS 150	2	HI/SB elective[1]	3
CS 160	1		
	14		**15**

Sophomore

Fall	Hours	Spring	Hours
CS 350, 351, or 352	2	CS 315	3
ECE 380	4	CS 360	4
MATH 301	3	MATH 302	1
HI/SB elective[1]	3	ECE 383	4
HU/L/FA elective[1]	3	HU/L/FA elective[1]	3
	15		**15**

Junior

Fall	Hours	Spring	Hours
CS 403	3	CS 426	3
CS 475	3	CS 457	3
GES 255 or ST 450	3	MATH 237	3
Approved natural science (N) elective[*]	4	Complete the sequence of HI/SB or HU/L/FA electives[1]	3
Free elective[3]	3	Free elective[3]	3
	16		**15**

Senior

Fall	Hours	Spring	Hours
Computer Science elective, 400 level[4]	3	Computer science elective, 400 level[4]	3

Approved Natural Science (N) elective	4 CS 495	3
HU/L/FA or HI/SB elective to complete 3rd course in each category.	3 Approved natural science (N) elective (must complete a sequence when paired with either of the two N electives previously chosen)	4
Free elective	6 Free electives[3]	4
	16	**14**

Total Hours: 120

*Approved Natural Science (N) electives must be chosen from majors courses. Potential courses include:

AY 101	Intro To Astronomy (Must take AY 102 to complete the N credit)	3
AY 102	Intro Astronomy Lab (Must take AY 101 to complete the N credit)	1
AY 203	Observational Astronomy (Must take AY 204 to complete the N credit)	2
AY 204	Solar System Astronomy (Must take AY 204 to complete the N credit)	3
BSC 114	Principles Of Biology I (Must take BSC 115)	3
BSC 115	Laboratory Biology I	1
BSC 116	Principles Biology II (Must take BSC 117)	3
BSC 117	Biology II Laboratory	1
CH 101 or	General Chemistry	4
CH 117	Honors General Chemistry	
CH 102 or	General Chemistry	4
CH 118	Honors General Chemistry	
GEO 101	The Dynamic Earth	4
GEO 102	The Earth Through Time	4
GEO 105	Sustainable Earth	4
GY 101	Atmospheric Proc & Patterns	4
GY 102	Earth Surface Processes	4
PH 101	General Physics I	4
PH 102	General Physics II	4
PH 105 or	General Physics W/Calc I	4
PH 125	Honors Gen Ph W/Calculus	
PH 106 or	Generl Physics W/Calc II	4
PH 126	Honors Gen Ph W/Calculus	

[1]Students must complete a sequence of two of the HU/L/FA or HI/SB elective courses from the same department.

[2]Students may substitute CS 499 Undergraduate Thesis Research for the capstone project course upon adviser approval.

[3]Free electives may be chosen from any course offered at UA, with the exception of CS 102 Microcomputer Applications and mathematics courses lower than MATH 125 Calculus I.

[4]May not be CS 466 Information Systems.

Computer Science Minor

Admission into the Minor

Students are expected to formally declare a minor. With the assistance of an adviser, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in computer science requires the successful completion of the following 18 semester hours:

		Hours
CS 121	The Discipline of Computing	1
CS 150	Programming I	2
CS 160	Computer Science Concepts	1
CS 250	Programming II	2
CS 260	Foundations of Comp Science	3
CS 315	Software Engineering	3
Select one of the following:		2
CS 350	Programming III: Java	
CS 351	Programming III: C++	
CS 352	Programming III: C	
CS 360	Data Structures & Algorithms	
Total Hours		14

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

MATH 125	Calculus I	4
MATH 301	Discrete Mathematics	3
MATH 302	Topics in Discrete Mathematics	1

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser for the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Computing Technology and Applications Minor

Admission into the Minor

Students are expected to formally declare a minor. With the assistance of an adviser in the minor department, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in computing technology and applications (offered by the Department of Computer Science) is primarily designed for students who are seeking to become computer literate in today's rapidly advancing technology. This minor requires 18 hours of CS course that are specifically designed for non-majors.

Requirements

Course Requirements		Hours
CS 102	Microcomputer Applications	3
Six hours of one of the following four sequences:		6
CS 202 & CS 205	Intro to the Internet and Web Site Design	
CS 285 & CS 385	Microcomputer Appl II and Prototyping In Visual Environm	
CS 302	Computerized Database Systems	
CS 340 & CS 345	Legal & Ethical Issues in Comp and Adv. Legal & Ethical Issues	
Nine hours of additional courses offered by the Computer Science Department. Most students select their nine-hour courses from the list below:		9
CS 202	Intro to the Internet	
CS 205	Web Site Design	
CS 285	Microcomputer Appl II	
CS 302	Computerized Database Systems	
CS 340	Legal & Ethical Issues in Comp	
CS 345	Adv. Legal & Ethical Issues	
CS 385	Prototyping In Visual Environm	
CS 391	Special Topics *	
CS 466	Information Systems	
Total Hours		18

*CS 391 Special Topics courses will count towards the 18 hours for this minor. However, they do not carry a C-designation and thus cannot be used towards your Core Curriculum requirements.

The following courses all carry a C-designation and thus can be used towards the completion of your Core Curriculum requirements: CS 202 Intro to the Internet, CS 205 Web Site Design, CS 285 Microcomputer Appl II, CS 302 Computerized Database Systems, CS 340 Legal & Ethical Issues in Comp, CS 345 Adv. Legal & Ethical Issues, CS 385 Prototyping In Visual Environm and CS 466 Information Systems.

Students who pass the CS 102 Microcomputer Applications placement test must still complete 18 hours of CS coursework.

For students in the College of Arts and Sciences, at least two of your CS courses must be 300 level or higher.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Faculty

Department Head

Cordes, David W.

Assistant Professor

Kraft, Nicholas

Syriani, Eugene

Associate Professor

Anderson, Monica

Borie, Richard B.

Brown, Marcus E.

Carver, Jeffrey

Dixon, Brandon

Gray, Jeff

Hong, Xiaoyan

Kraft, Nicholas

Lusth, John

Smith, Randy K.

Vrbsky, Susan V.

Xiao, Yang

Zhang, Jingyuan

Professors

Brown, David B.

Parrish, Allen

Instructors

Dixon, Leslie

Freeman, Hazel E.

Hooper, Dana

Hooper, Ralph E.

Horton, Christopher

Morris, Kathleen

Prater, James M.

Wright, Kimberly

Courses

CS 102. Microcomputer Applications. 3 sem. hrs.
Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management. (Credit for this course will not be applied to the requirements for a computer science degree).

CS 104. The Science of Programming. 3 sem. hrs.
This course is designed for students who wish to have some programming experience before entering CS150. Topics include: literals, variables, expressions, functions, curried functions, objects, writing and saving programs, organizing programs and data.
Prerequisite(s): Permission of Instructor
Prerequisite(s) with concurrency: MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

CS 120. Business Programming I. 3 sem. hrs.
An introduction to programming. The topics include procedural information enabled problem formulation, design and development of business computer solutions. This course concentrates on the construction and testing of individual programs.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125.

CS 121. The Discipline of Computing. 1 sem. hr.
An introduction to the discipline of computing designed for students who are considering a major or minor in computer science.
Prerequisite(s): MATH 112 minimum Grade of C- OR higher OR UA Placement Mathematics 380
Prerequisite(s) with concurrency: MATH 112.

CS 150. Programming I. 2 sem. hrs.
An introductory course that teaches programming and program development. The emphasis of the course is the rapid acquisition of programming, testing, debugging and system skills. The course utilizes Python, a modern object-oriented language whose clean and consistent syntax and semantics provide a simpler entry for beginning programmers.
Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 146.

CS 160. Computer Science Concepts. 1 sem. hr.
Introductory programming laboratory that focuses on basic problem solving concepts.
Prerequisite(s): Credit for MATH 112 or placement into MATH 115 or above.

CS 202. Intro to the Internet. 3 sem. hrs.
Introduces the student to the fundamentals of the internet and web page design and development. Students will be shown how to use the internet, text editors, and build basic web pages using HMTL coding. This will include, but not be limited to hyperlinks, tables, basic CSS styling, frames and forms. The student will also be given demonstrations and assignments using a WYSIWYG editor.
Prerequisite(s): CS 102 or CS 150 or ENGR 103 or CBH 101.

CS 205. Web Site Design. 3 sem. hrs.
A course designed to teach website design principles and implementation techniques. This class is not cross-listed as a graduate course. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 202.

CS 220. Business Programming II. 3 sem. hrs.
This course builds on the concepts and expertise gained in data driven problem solving and computer programming. It explores problem formulation, solution designing and object-oriented construction of business applications. This course concentrates on problem decomposition, design, construction and testing of individual programs. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 120 or CBH 101.

CS 250. Programming II. 2 sem. hrs.
A second course in programming that builds upon the concepts covered in CS 150. The emphasis is to improve and solidify program development skills as well as to introduce students to multimedia programming. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 150.

CS 260. Foundations of Comp Science. 3 sem. hrs.
An introduction to the science of Computer Science. Topics include: introduction to complexity, O(n) searching, sorting, design strategies, problem solving, arrays, singly-linked lists, stacks, and creative and searching binary search trees.
Prerequisite(s): CS 150 and (CS 160 or ECE 285).

CS 285. Microcomputer Appl II. 3 sem. hrs.
Use of spreadsheets and other environments to build business and scientific applications. Course includes development of problem-solving skills and an introduction to the object-oriented paradigm. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or CBH 101 or ENGR 103.

CS 302. Computerized Database Systems. 3 sem. hrs.
An introduction to commercial database packages. Students will gain familiarity with both creating and using standard database software packages to solve real-world problems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or CBH 101 or ENGR 103.

CS 315. Software Engineering. 3 sem. hrs.
Introduction to software engineering: the software crisis, program life cycle, software systems analysis techniques, software modeling, theory and practice of design, program testing methodologies, programmer team organization, and program verification and synthesis.
Prerequisite(s): CS 260 and CS 250 or ECE 285.

CS 325. Software Develmnt Systms. 3 sem. hrs.
Object-oriented programming in C++ under the Unix OS.
Prerequisite(s): CS 260 or CBH 102.

CS 340. Legal & Ethical Issues in Comp. 3 sem. hrs.
By way of case study, the course finds and frames issues related to legal and ethical issues in computing. Topics include privacy, free speech, intellectual property, security, and software reliability and liability issues. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or ENGR 103 or CBH 101.

CS 345. Adv. Legal & Ethical Issues. 3 sem. hrs.
Using case study and fact pattern analysis, students will find and frame legal and ethical issues presented by past, contemporary and emerging technology. Students will engage in service learning to enhance their sense of civic responsibility.
Prerequisite(s): CS 340.

CS 350. Programming III: Java. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the Java programming language. The emphasis is on building larger projects using production languages and development environments. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 250 or ECE 285.

CS 351. Programming III: C++. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the C++ programming language. The emphasis is on building larger projects using production languages and development environments. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 250 or ECE 285.

CS 352. Programming III: C. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the C programming language. The emphasis is on building larger projects using production languages and development environments.
Prerequisite(s): CS 250 or ECE 285.

CS 357. Data Structures. 3 sem. hrs.
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching and dynamic storage allocation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 325
Prerequisite(s) with concurrency: CS 325.

CS 360. Data Structures & Algorithms. 4 sem. hrs.
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching and dynamic storage allocation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 301; and CS 250 or ECE 285; and CS 260;
Prerequisite(s) with concurrency: MATH 302 and CS 350 and CS 351 and CS 352.

CS 375. Programg Using Visual Environm. 3 sem. hrs.
Design and construction of programs using the Visual Basic programming environment. This course is designed for students majoring in MIS.
Prerequisite(s): MATH 112 or MATH 115; and CS 250 or CBH 102.

CS 385. Prototyping In Visual Environm. 3 sem. hrs.
Design and construction of standard user interfaces using a visual programming environment. Course includes the prototyping of several standard user interface mechanisms. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 285.

CS 391. Special Topics. 3 sem. hrs.
Special topics in computing.

CS 395. Competitive Programming I. 1 sem. hr.
A study of techniques and practices that promote success in competitive programming contests.

CS 396. Competitive Programming II. 1 sem. hr.
Advanced study of techniques and practices that promote success in competitive programming contests. Must have 3 hours of credit in CS 395.
Prerequisite(s): CS 395.

CS 403. Programming Languages. 3 sem. hrs.
Formal study of programming language specification, analysis, implementation, and run-time support structures; organization of programming languages with emphasis on language constructs and mechanisms; and study of non-procedural programming paradigms.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 407. Software Interface Desgn. 3 sem. hrs.
Basic concepts of the human-computer interface, including human diversity, user mental models, menus, command languages, documentation, error messages, anthropomorphisms, and software psychology.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 and CS 357 or CS 360; and ECE 383.

CS 415. Software Design & Development. 3 sem. hrs.
Object-oriented design and development using UML and Java, design patterns, and architectural patterns.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 357 or CS 360; and ECE 383.

CS 416. Testing and Quality Assurance. 3 sem. hrs.
Study of verification & validation and related processes. Topics include techniques and tools for software analysis, testing, and quality assurance.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383.

CS 417. Requirements Engineering. 3 sem. hrs.
Study of requirements engineering and it's phases. Topics include formal, semi-formal, and informal paradigms for elicitation, documentation, and management of software system requirements.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383.

CS 420. Software Mainten. & Evolution. 3 sem. hrs.
Study of software and its phases. Topics include techniques and tools for concept location, impact analysis, actualization, refactoring, and validation.
Prerequisite(s): CS 315 and CS 350 or CS 351; and CS 360 and ECE 383.

CS 426. Intro Operating Systems. 3 sem. hrs.
Study of basic operating system concepts with an emphasis on memory, processor, device, and information management.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352; and CS 360 and ECE 383; or CS 325 and CS 357 and ECE 383.

CS 428. Computer Security. 2 sem. hrs.
An examination of computer security concepts, such as cryptographic tools, user authentication, access control, database security, intrusion detection, malicious software, denial of service, firewalls and intrusion prevention systems, trusted computing and multilevel security, buffer overflow, software security, physical and infrastructure security, human factors, and security auditing.
Prerequisite(s): CS 426.

CS 434. Compiler Construction. 3 sem. hrs.
Syntax and semantics of procedure-oriented languages and translation techniques used in their compilation; includes computer implementation.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 435. Computer Graphics. 3 sem. hrs.
Fundamentals of interactive 3-D computer graphics, including modeling and transformations, viewing, lighting and shading, mapping methods, graphics pipeline, shading languages, and interaction techniques. Programming projects are required.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 438. Comptr Commcn Networks. 3 sem. hrs.
The study of the issues related to computer communications. Topics include physical topologies, switching, error detection and correction, routing, congestion control, and connection management for global networks (such as the Internet) and local area networks (such as Ethernet). In addition, network programming and applications will be considered.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 440. Ethical Societal Issues. 3 sem. hrs.
The course looks at social, legal, and ethical aspects of computing, and presents the student with an overall framework of computing-related disciplines and culture. Includes computer crime issues (hackers, viruses, worms); other legal issues (software patents, copyrights, product liability, etc.); and computing risks and privacy implications.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 457. Data Base Managm Systems. 3 sem. hrs.
Constituent parts of database management (design, creation, and manipulation of databases), including the conceptual and relational data models, SQL, normalization and security. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 460. Intro to Autonomous Robotics. 3 sem. hrs.
Issues involved with the implementation of robot control software including motion, kinematics, simulation testing, sensor incorporation and unmodeled factors.
Prerequisite(s): CS 426.

CS 465. Artificial Intelligence. 3 sem. hrs.
The advanced study of topics under the umbrella of artificial intelligence including problem solving, knowledge representation, planning and machine learning.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 466. Information Systems. 3 sem. hrs.
Information Systems
Prerequisite(s): CS 102 and six (6) hours of other CS courses.

CS 470. Intro Computer Algorithms. 3 sem. hrs.
Construction of efficient algorithms for computer implementation.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 475. Formal Languag & Machine. 3 sem. hrs.
Regular expressions and finite automata. Context free grammars and pushdown automata. Recursively enumerable languages and turing machine. The Chomsky hierarchy.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 491. Special Topics. 3 sem. hrs.
Formal courses that cover new and innovative topics in computer science and do not yet have their own course numbers. Specific course titles will be announced from time to time.
Prerequisite(s): CS 315; and CS 325 or CS 350 or CS 351 or CS 352; and CS 357 or CS 360; and ECE 383.

CS 492. Special Prob (Area). 1-3 sem. hr.
Reading and research course designed to meet the needs of individual students. This course cannot be used as a required 400-level computer science elective.

CS 495. Capstone Computing. 3 sem. hrs.
A culminating capstone project course that integrates the skills and abilities throughout the curriculum into a comprehensive design and development experience for computer science majors. Writing proficiency within this discipline is required for a passing grade in this course, and ethical issues are applied to the students' future professions.
Prerequisite(s): (CS 325 and CS 357); or (CS 350 or CS 351 or CS 352; and CS 315 and CS 360).

CS 497. Competitive Programming Techniques. 1 sem. hr.
Provides a unique opportunity to explore new problem solving techniques in a way that is not covered traditionally in the curriculum, helping students improve their software development skills.
Prerequisite(s): CS 360.

CS 499. Undergraduate Thesis Research. 3 sem. hrs.
Independent research and participation within a faculty member's research group. Writing proficiency within this discipline is required for a passing grade in this course. Permission of the supervising faculty member is required.
Prerequisite(s): CS 315; and CS 350 or CS 351; and CS 360 and ECE 383.

Department of Electrical and Computer Engineering

Electrical engineering, the largest of the engineering fields, is the application of mathematics, sciences, and electrical and electronic technologies to the needs of society. This broad and diverse discipline touches almost every aspect of people's lives and occupations, from communication systems such as cellular phones, radio, television and the Internet to computer systems, including personal computers, and the hidden processors that control automobiles and household appliances.

Electrical and computer engineering at The University of Alabama offers programs in traditional electrical engineering and in computer engineering. Electrical engineering students get deeply involved in technical areas, including communication systems, computers, control systems, electromagnetics, electronics and microelectronics, power systems, and signal processing. Students in the computer engineering option specialize in the software and hardware components of modern computing systems. The programs provide a sound foundation for entry into the engineering profession and opportunities for graduates are extensive, often depending only on the interests of the individual. Graduates work in most industries, including the computer, telecommunications, power, aerospace, manufacturing, defense and electronics industries. They design high-tech devices ranging from tiny microelectronic chips to powerful computers that utilize those chips to efficient telecommunication systems that interconnect those computers. They design and operate a wide array of complex technological systems, such as power generation and distribution systems and modern computer-controlled manufacturing plants. They are also involved in sales, marketing, testing, quality control and research. With additional training, they may even contribute in other professions, including education, medicine and law.

Program Educational Objectives and Program Outcomes

The mission of the undergraduate electrical engineering and computer engineering programs is to provide high-quality and broad-based education in electrical engineering or computer engineering that emphasizes critical thinking and communication skills while preparing graduates for professional careers and lifelong learning. The faculty has adopted the educational objectives listed below for the electrical and computer engineering undergraduate programs. The department has included a process to provide continual improvement of the curricula. Graduates will:

- excel in engineering careers and/or postgraduate education utilizing knowledge of electrical or computer engineering disciplines and underlying fundamental principles of science and mathematics, engineering analysis, problem solving and design
- expand their knowledge of current and emerging issues in electrical and computer engineering and continue career-long professional development through engagement in lifelong learning
- grow professionally and advance throughout their engineering careers utilizing skills in effective communication; responsible, multidisciplinary teamwork; and adherence to principles of professional accountability and ethics

To facilitate attainment of these career-long objectives, the department has defined a set of program outcomes and associated assessments to demonstrate that, by graduation, students have:

- an ability to apply the necessary knowledge of mathematics, science and engineering to analyze and design electrical and electronic devices, software and systems containing hardware and software components, as appropriate to program objectives
- an ability to design and conduct experiments, as well as analyze and interpret data
- an ability to design a system, component or process to meet desired needs
- an ability to function on multidisciplinary teams
- an ability to identify, formulate and solve engineering problems
- an understanding of professional and ethical behavior
- an ability to communicate effectively in oral, written and graphical formats
- the broad education necessary to understand the impact of electrical or computer engineering solutions in a global, societal and environmental context consistent with the principles of sustainable development
- a recognition for the need for and an ability to engage in lifelong learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills and modern engineering tools necessary for engineering practice
- knowledge of probability and statistics, specifically applied to problems in electrical or computer engineering
- for electrical engineering graduates, knowledge of advanced mathematics, typically including differential equations, linear algebra, complex variables and discrete mathematics; for graduates with the computer engineering option, knowledge of discrete mathematics

The information contained here describes the undergraduate curricula in electrical engineering and computer engineering. Graduate students and students participating in the Scholars Program should consult the graduate catalog for information on all cross-listed and graduate-only courses. More information about various programs within the department is available in the electrical and computer engineering office.

Electrical Engineering Curriculum

The overall goal of the electrical engineering program is to prepare students for engineering careers within the discipline. The first year and a half of the electrical engineering curriculum includes basic courses in mathematics and physical science, broadening courses in humanities and social science, and foundation courses in engineering. The next three semesters provide the core education in electrical engineering, with courses in computers, electronics, circuits, systems and electromagnetics. The last year of study includes technical electives to allow students to concentrate in selected areas of the discipline. For seniors, the department offers advanced courses in computers, communication, control, electromagnetics, microelectronics, materials and power.

Students must select two electrical engineering electives with labs. The elective areas are computers, microelectronics, electromagnetics, power systems, communication systems and control systems. Materials that describe each area are available in the electrical and computer engineering office.

Freshman

Fall	Hours	Spring	Hours
CH 101	4	PH 105	4
MATH 125	4	MATH 126	4
Humanities (H), literature (L), or fine arts (FA) elective[1,3]	3	EN 102	3
ENGR 111 or ECE 121	1	ENGR 103	3
EN 101	3		
	15		**14**

Sophomore

Fall	Hours	Spring	Hours
PH 106	4	PH 253	3
MATH 227	4	MATH 238	3
MATH 237	3	ECE 225	4
ECE 285	2	ECE 380	4
CS 150	2	Humanities (H), literature (L), or fine arts (FA) elective[1,3]	3
	15		**17**

Junior

Fall	Hours	Spring	Hours
ECE 340	4	PH 301 or ECE 330 or ECE 455	3
MATH 355	3	ECE 326	3
ECE 370	3	ECE 350	3
ECE 332	4	ECE 333	4
CS 351	2	History (HI) or social and behavioral sciences (SB) elective[1,3]	3
	16		**16**

Senior

Fall	Hours	Spring	Hours
ECE 492	2	ECE 494	2
Electrical engineering elective with laboratory	4	Electrical engineering elective with laboratory	4
ECE elective	3	ECE or Professional elective	3
ECE 383	4	History (HI) or social and behavioral sciences (SB) elective[1,3]	3
History (HI) or social and behavioral sciences (SB) elective[1,3]	3	Humanities (H), literature (L), or fine arts (FA) elective[1,3]	3
	16		**15**

Total Hours: 124

1 Students must satisfy the College of Engineering in-depth requirement (minimum of six hours in one discipline).

2 The professional elective must be chosen from the list approved by the department of electrical and computer engineering.

3 The College of Engineering core curriculum requires a minimum of: nine hours of HU, L, or FA courses; nine hours of HI or SB courses; six hours of FC courses; six hours of W courses (300- and 400-level ECE courses); 12 hours of N courses (eight hours of calculus-based physics); 12 hours of MA courses (MATH 125 Calculus I or higher); and six hours of C or FL courses.

Computer Engineering Option in Electrical Engineering

The computer engineering option is offered within the electrical engineering department in order to give students a broad knowledge of the software and hardware components of modern computing systems, detailed computer-systems design, and the role of computer systems in various engineering disciplines. A primary goal of the program is to prepare the student for a computer-oriented engineering career with emphasis on computer applications within various subdisciplines of electrical engineering.

The computer engineering option includes a broad spectrum of electrical engineering and computer science courses, as well as electives to allow the student to study a specific area in depth and to gain additional design experience. Areas of specialization may include computer architecture, integrated circuit design, microprocessor-based systems, sensor networks, image processing, robotics and applications-oriented study in other disciplines of electrical engineering.

Freshman

Fall	Hours	Spring	Hours
CH 101	4	PH 105	4
MATH 125	4	MATH 126	4
Humanities (H), literature (L), or fine arts (FA) elective[1,4]	3	EN 102	3
ENGR 111 or ECE 121	1	ENGR 103	3
EN 101	3		
	15		**14**

Sophomore

Fall	Hours	Spring	Hours
PH 106	4	History (H) or social and behavioral sciences (SB) elective[1,4]	3
MATH 227	4	MATH 238	3
MATH 237	3	ECE 225	3
ECE 285	2	ECE 380	4
CS 150	2	MATH 301	3
	15		**16**

Junior

Fall	Hours	Spring	Hours
Humanities (H), literature (L), or fine arts (FA) elective[1,4]	3	History (H) or social and behavioral sciences (SB) elective[1,4]	3
MATH 355	3	ECE 326	3
ECE 370	3	ECE 333	4
ECE 332	4	ECE 383	4
CS 260	3	CS 351	2
	16		**16**

Senior

Fall	Hours	Spring	Hours
ECE 492	2	ECE 494	2
ECE 480	3	Humanities (HU), literature (L), or fine arts (FA) elective[1,4]	3
ECE 481	1	ECE 486	3
CS 360	4	ECE 487	1
ECE 484	3	Professional or restricted area elective[2,3]	3
Restricted area elective[3]	3	History (HI) or social and behavioral sciences (SB) elective[1,4]	3
	16		**15**

Total Hours: 123

1 Students must satisfy the College of Engineering in-depth requirement (minimum of six hours in one discipline).

2 The professional elective must be chosen from the list approved by the department of electrical and computer engineering.

3 The restricted-area elective must be chosen from the list approved by the department of electrical and computer engineering.

4 The College of Engineering core curriculum requires a minimum of: nine hours of HU, L, or FA courses; nine hours of HI or SB courses; six hours of FC courses; six hours of W courses (300- and 400-level ECE courses); 12 hours of N courses (eight hours of calculus-based physics); 12 hours of MA courses (MATH 125 Calculus I or higher); and six hours of C or FL courses.

Faculty

Department Head

Haskew, Tim

Alabama Power Endowed Professor

Burkett, Susan

E.A. Larry Drummond Endowed Chair of Computer Engineering

Hong, Yang-Ki

Professors

Haskew, Tim

Jackson, Jeff

Associate Professors

Hu, Fei

Kim, Bruce

Kotru, Sushma

Li, Shuhui

Ricks, Kenneth

Sazonov, Edward

Scharstein, Robert

Assistant Professors

Abu Qahouq, Jaber

Hao, Qi

Kim, Seongsin

Kung, Patrick

Li, Dawen

Courses

ECE 121. Introduction to Electrical and Computer Engineering. 1 sem. hr.
Introduction to electrical and computer engineering disciplines, specializations, the engineering design process, mathematics required for these disciplines, computer-based modeling and simulation tools, and professional responsibilities.
Prerequisite(s): MATH 110
Prerequisite(s) with concurrency: ECE 131 and ENGR 111.

ECE 225. Electric Circuits. 4 sem. hrs.
Physical concepts and mathematical techniques of circuit analysis; DC, transient, and sinusoidal steady-state analysis of circuits; Includes laboratory experiments.
Prerequisite(s): PH 106 and PH 126, MATH 227 and MATH 238.

ECE 285. Programing for Elec/Comp Eng. 2 sem. hrs.
Algorithm design, programming, test and debugging skills using the C programming language. Applications to engineering problem solving in electrical and computer engineering.
Prerequisite(s): MATH 125 or MATH 145; and CS 150
Prerequisite(s) with concurrency: CS 150.

ECE 320. Fundmtl Electrical Engr. 3 sem. hrs.
Introduction to circuit analysis, methods, resistive circuits, AC circuits, first-order transients, AC power, operational amplifiers, and machines. Not open to electrical engineering majors or to students who have earned credit for ECE 225.
Prerequisite(s): PH 106; and MATH 238 or MATH 247
Prerequisite(s) with concurrency: MATH 238.

ECE 326. Electric Networks. 3 sem. hrs.
Response of circuits to transient signals, both deterministic and random. Laplace transform solution techniques for circuits and differential equations. Relationship between Laplace and Fourier transforms. Frequency response and representation of circuits and systems. Modeling of uncertainty in circuit elements.
Prerequisite(s): ECE 225 and MATH 238 and MATH 355.

ECE 330. Intro. to Semiconductor Device. 3 sem. hrs.
Seminconductor device physics, PN junction, Schottky diodes, BJT, MOS capacitor, MOSFET, and optoelectronic devices. Brief introduction of microelectronic fabrication.
Prerequisite(s): PH 253 and ECE 225
Prerequisite(s) with concurrency: ECE 225.

ECE 332. Electronics I. 4 sem. hrs.
Semiconductor materials and properties, fundamentals of p-n junctions, diodes, diode circuits and operation, signal generators, rectifier and wave-shaping circuits, bipolar and field effect transistors, MOSFET, transistor DC circuit analysis, basic transistor amplifiers. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): ECE 225 or ECE 320; and EN 102.

ECE 333. Electronics II. 4 sem. hrs.
Operational amplifiers, BJTs, MOSFETs, integrated current biasing and active loads, differential and multistage amplifiers, frequency response, feedback and stability, power amplifiers, and introduction to digital circuits. The lab deals with experiments illustrating concepts in electronics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ECE 332.

ECE 340. Electromagnetics. 4 sem. hrs.
Electrostatics, magnetostatics, Maxwell's equations, plane waves, guided waves, and radiation.
Prerequisite(s): PH 106 and MATH 227 and MATH 238
Prerequisite(s) with concurrency: MATH 238.

ECE 350. Electric Power & Machines. 3 sem. hrs.
Single- and three-phase power system analysis. Theory and operation of electromechanical devices, including magnetic circuits, transformers, as well as DC and AC rotating machines. Fundamentals of power electronics.
Prerequisite(s): ECE 225 or ECE 320.

ECE 370. Signals And Systems. 3 sem. hrs.
Time domain and frequency domain analysis of continuous and discrete signals and systems; Fourier integral, Fourier series, Z-transform. Numerical implementation using MatLab.
Prerequisite(s): ECE 225 and ECE 285.

ECE 380. Digital Logic. 4 sem. hrs.
Number systems, Boolean algebra, logic functions and gates, design of combinational logic systems, flip-flops, design of synchronous sequential systems, and iterative networks. Includes laboratory experiments.
Prerequisite(s): (CS 150 or CBH 101) and (MATH 125 or MATH 145).

ECE 383. Microcomputers. 4 sem. hrs.
Microprocessors, microcontrollers, assembly-language programming, interrupts, polling and hardware interfaces. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (ECE 285 or CS 250 or CBH 101) and ECE 380.

ECE 404. Sensor Networks. 3 sem. hrs.
Basic architecture and applications of wireless sensor networks (WSN). Hardware components of WSN, WSN operating systems, transport layer, routing layer, MAC layer and data link layer of WSN.
Prerequisite(s): ECE 383.

ECE 406. Computer Commiunications and Networks. 3 sem. hrs.
Introduction to computer communications and networks. Topics include physical topologies, various protocols, the OSI and TCP/IP Reference Models, error detection and correction, routing algorithms, congestion control, example networks, and network applications.
Prerequisite(s): CS 325 and CS 357 and ECE 383.

ECE 408. Communications. 3 sem. hrs.
Analog and digital communication systems, random signals, sampling, filtering, analog-to-digital encoding, advanced digital modulation/demodulation, source encoding/decoding, channel encoding/decoding, multiplexing, system performance anaylsis.
Prerequisite(s): MATH 355 and ECE 370.

ECE 409. Communications Lab. 1 sem. hr.
Modeling and design of communication systems. Familiarization with specialized communications equipment and techniques. Proper use of laboratory instruments.
Prerequisite(s): ECE 370 and ECE 408
Prerequisite(s) with concurrency: ECE 408.

ECE 430. Solid State Devices. 3 sem. hrs.
Solid state physics for semiconductor devices, p-n junction, metal-semiconductor junction, JFET/MESFET, MOSFET, BJT and non-ideal behaviors of solid state devices. Organic thin film devices including organic solar cells, thin film transistors, light emitting diodes and their application for flexible displays.
Prerequisite(s): ECE 330.

ECE 432. VLSI Design. 3 sem. hrs.
Digital design issues in the context of VLSI systems. Introduction to CMOS digital design methodology, layout techniques, behavior models, circuit simulation and testing of complex systems.
Prerequisite(s): ECE 332.

ECE 434. Mixed Signal Circuits. 3 sem. hrs.
Design and testing issues in the context of mixed-signal embedded systems. Introduction to CMOS mixed-signal design methodology, layout techniques, analog to digital converters, digital to analog converters, circuit simulation, and testing and packaging of complex mixed-signal systems.
Prerequisite(s): ECE 332.

ECE 438. Intgr Circuit Fabr Prin. 3 sem. hrs.
Study of the processing tools used in semiconductor device fabrication. Topics include semiconductor fundamentals, semiconductor device fabrication processes, interconnections and contacts, integrated circuit packaging, and chip yield.
Prerequisite(s): ECE 333 or MTE 271.

ECE 439. Thin Film Technology. 3 sem. hrs.
Crystal structure and defects, film nucleation and growth models, growth of polycrystalline and epitaxial films, vacuum science technology, physical and chemical vapor deposition, solution based methods and thin film characterization techniques.
Prerequisite(s): ECE 225 or PH 253.

ECE 440. Electromagnetic Waves. 3 sem. hrs.
Mathematics and physics of the radiation, propagation and scattering of electromagnetic waves. Boundary value problems involving finite and infinite structures, waveguides, antennas and media.
Prerequisite(s): ECE 340.

ECE 445. Antennas. 3 sem. hrs.
Transmission and reception of power and information in free space; antennas as interface elements; impedance and radiation characteristics of modern antennas.
Prerequisite(s): ECE 340 or PH 332.

ECE 451. Power Electronics. 3 sem. hrs.
Detailed study on the theory and operation of power electronics converters and systems. Overview of enabling power semiconductors switching devices. Introduction to feedback control of converters. Machine drive fundamentals.
Prerequisite(s): ECE 332 and ECE 350.

ECE 452. Power Electronics Laboratory. 1 sem. hr.
Laboratory experience in three phase power systems and electric machinery. Laboratory experience on the theory and operation of power electronic converters, systems and machine drives.
Prerequisite(s): ECE 332 and ECE 350
Prerequisite(s) with concurrency: ECE 451.

ECE 453. Power Systems. 3 sem. hrs.
Basic power systems concepts and per unit quantities; transmissions line, transformer and rotating machine modeling; power flow; symmetrical component of power systems; faulted power system analysis.
Prerequisite(s): ECE 350.

ECE 454. Power Systems Laboratory. 1 sem. hr.
Test and analysis of power systems and machine devices and the design of systems using devices.
Prerequisite(s): ECE 350 and ECE 453
Prerequisite(s) with concurrency: ECE 453.

ECE 455. Electromechanical Systems. 3 sem. hrs.
Static and dynamic modeling, analysis, and simulation of mechanical, electrical, hydraulic and mixed systems. MATLAB and SIMULINK model development and simulation.
Prerequisite(s): ECE 225 and MATH 238.

ECE 461. Quantum Well Elec & Devices. 3 sem. hrs.
Energy levels and wave functions of semiconductor microstructures; envelope function approximation; quantum wells, superlattices; excitons; optical and electrical properties; selection rules; quantum confined Stark Effect; Wannier-Stark localization; field-effect transistors, tunneling devices, quantum well lasers, electro-optic modulators and quantum-well intersubband photodetectors.
Prerequisite(s): ECE 330 or PH 253.

ECE 462. Semiconductor Optoelectronics. 3 sem. hrs.
Elemental and compound semiconductors; fundamentals of semiconductor physical properties; solid state physics; optical recombination and absorption; light emitting diodes; quantum well lasers; quantum dot lasers; blue lasers; semiconductor modulators; photodetectors; semiconductor solar cells; semiconductor nanostructure devices.
Prerequisite(s): PH 253.

ECE 463. Magnetic Materials & Devices. 3 sem. hrs.
Diamagnetism and Paramagnetism, Ferromagnetism, Antiferromagnetism, Ferrimagnetism, magnetic anisotropy, domains and the magnetization process, fine particles and thin films and magnetization dynamics.
Prerequisite(s): ECE 340.

ECE 466. Fund of Nanotechnology. 3 sem. hrs.
Nanofabrication with electron beam lithography, focused ion beam, lithography, and nanoimprint; microscopies for nanostructures, including SEM, EDX, TEM, AFM, STM; nanoscale devices based on nanostructured materials (carbon nanotubes and metal oxide nanomaterials).
Prerequisite(s): ECE 330 or PH 253.

ECE 475. Control Systems Analysis. 3 sem. hrs.
Classical and modern feedback control system methods; stability; Bode, root locus, state variables, and computer analysis.
Prerequisite(s): ECE 326.

ECE 476. Control Systems Lab. 1 sem. hr.
Practical analysis and design of feedback control systems and components; electrical, mechanical, and electromechanical systems.
Prerequisite(s): ECE 326
Prerequisite(s) with concurrency: ECE 475.

ECE 479. Digital Control Systems. 3 sem. hrs.
Frequency and time methods in discrete time control systems; sampling of continuous-time signals, stability, transform design techniques, and state variable analysis and design techniques.
Prerequisite(s): MATH 237 and ECE 370 and ECE 475.

ECE 480. Digital Systems Design. 3 sem. hrs.
Digital systems design with hardware description languages, programmable implementation technologies, electronic design automation design flows, design considerations and constraints, design for test, system-on-a-chip designs, IP cores, reconfigurable computing and digital system design examples and applications.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 481.

ECE 481. Digital Systems Design Lab. 1 sem. hr.
Logic design and simulation via hardware description languages, use of electronic design automation tools, and CPU design.
Prerequisite(s) with concurrency: ECE 480.

ECE 482. Comp Visn Dig Image Proc. 3 sem. hrs.
Introduction to computer vision and digital image processing with an emphasis on image representation, transforms, filtering, compression, boundary detection, and pattern matching.
Prerequisite(s): MATH 355 and ECE 285.

ECE 484. Computer Architecture. 3 sem. hrs.
Basic computer organization, computer arithmetic, assembly language, machine language, simple and pipelined central-processor organization, memory system hierarchy, and measuring computer performance.
Prerequisite(s): ECE 383.

ECE 485. Programmable Logic Controllers. 3 sem. hrs.
Programmable Logic Controllers, fundamentals of ladder logic programming and PLC systems, advanced PLC operation, and related topics, including networking, control applications and human-machine interface design.
Prerequisite(s): ECE 383.

ECE 486. Embedded Systems. 3 sem. hrs.
Integration of microprocessors into digital systems. Includes hardware interfacing, bus protocols and peripheral systems, embedded and real-time operating systems, real-time constraints, networking, and memory system performance.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 487.

ECE 487. Embedded Systems Laboratory. 1 sem. hr.
Projects provide hands-on experience in hardware interfacing, system-level design, real-time concepts and memory system performance.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 486.

ECE 491. Special Problems. 1-8 sem. hr.
Investigation of a problem or problems, usually involving research with a faculty member. Credit is based on the individual assignment.

ECE 492. Capstone Design I. 2 sem. hrs.
First of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project. Also, the first-semester course will include instruction in design methodology, engineering ethics, societal impacts, project economics, and management tools.
Prerequisite(s) with concurrency: ECE 333.

ECE 493. Selected Topics. 1-8 sem. hr.
Special courses in all areas of electrical or computer engineering, offered as the need arises. Credit is based on the course requirements.

ECE 494. Capstone Design II. 2 sem. hrs.
Second of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project.
Prerequisite(s): ECE 492.

ECE 498. Honors Problems I. 1-3 sem. hr.
Investigation of an electrical or computer engineering research or design problem.

ECE 499. Honors Problems II. 1-3 sem. hr.
Investigation of an electrical or computer engineering research or design problem.

Department of Mechanical Engineering

Mechanical engineering is the most versatile engineering program. Mechanical engineers pursue careers in a wide variety of industries, research laboratories, educational activities and government agencies. Mechanical engineering graduates can become involved in research, design and management in industries such as aerospace, automotive, energy conservation, precision engineering, railroad, heavy machinery, manufacturing, food/forest products, textiles, paper, consumer appliances, robotics, nuclear and fossil power plants, electronics, computer automation, agriculture, heating and air-conditioning, construction, transportation, and mining. A significant number of mechanical engineering graduates use mechanical engineering as the foundation for careers in business administration, law, medicine and other professions. Many graduates are also accepted for advanced study in mechanical engineering, biomedical engineering, medicine, law, business administration and dentistry.

Program Objectives

The University of Alabama Department of Mechanical Engineering has adopted the following objectives to ensure our graduates are equipped to meeting known and anticipated technical challenges of our profession. Out of a commitment to continuously improve the undergraduate curriculum for the mechanical engineering program, the Department of Mechanical Engineering's faculty has adopted several educational objectives. The following objectives define the early-career accomplishments that the mechanical engineering program is designed to prepare graduates to pursue:

1. Our graduates will contribute to the profession in ways that benefit society.
2. Our graduates are prepared to have sufficient career and professional accomplishments within 5-10 years of graduation to be considered as either an engineering expert and/or a leader/manager.
3. Our graduates will continue to grow in expertise and knowledge by participating in activities that enhance professional development in their career path.

Student Educational Outcomes

The mechanical engineering program at The University of Alabama will demonstrate that its graduates have:

- an ability to apply knowledge of mathematics, science, and general engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component or process to meet desired needs
- an ability to function on multi-disciplinary teams
- an ability to identify, formulate and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global and societal context
- a recognition of the need for, and an ability to engage in, life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills and modern engineering tools necessary for engineering practice
- an ability to apply advanced mathematics through multivariate calculus and differential equations
- the ability to work professionally in both thermal and mechanical systems areas
- knowledge of conventional and modern manufacturing methods and materials

Mechanical Engineering Curriculum

Freshman

Fall	Hours	Spring	Hours
CH 101	4	MATH 126	4
MATH 125	4	PH 105	4
ENGR 103	3	ENGR 161	1
ME 121	1	Humanities (HU), Literature (L), or Fine Arts, (FA) elective or history (HI) and/or Socialand Behavioral Sciences (SB) elective	3
EN 101	3	EN 102	3
	15		**15**

Sophomore

Fall	Hours	Spring	Hours
AEM 201	3	AEM 264	3
MATH 227	4	AEM 311	3
ME 215	3	MATH 238	3
PH 106	4	ME 305	3
Approved science elective[2]	4	MTE 271	3
	18		**15**

Junior

Fall	Hours	Spring	Hours
AEM 250	3	ME 350	3
AEM 251	1	ME 360	3
ECE 320	3	ME 372	3
ME 309	3	ME 383	3
ME 349	3	Approved mechanical engineering elective[3]	3
Humanities (HU), literature (L), or fine arts (FA) elective or history (HI) and/or social behavioral sciences (SB) elective[1]	3		
	16		**15**

Senior

Fall	Hours	Spring	Hours
ME 415 or 407	2	ME 490	3
ME 450	3	Approved mechanical engineering or technical elective[5]	3
ME 460	3	Approved mechanical engineering elective[3]	3
ME 489	3	Humanities (HU), literature (L), or fine arts (FA) elective or history (HI) and/or social and behavioral sciences (SB) elective[1]	6
Humanities (HU), literature (L), or fine arts (FA) elective or history (HI) and/or social behavioral sciences (SB) elective[1]	6		
	17		**15**

Total Hours: 126

1 All engineering students are required to take 9 hours of humanities and 9 hours of social and behavioral sciences. At least 6 hours must be from a single program.

2 Approved science electives are taken from an approved list available from the department.

3 Mechanical engineering electives are offered on a regular schedule, but not necessarily every year. The student may select any two mechanical engineering electives to complete the requirements for the BS degree. A list of mechanical engineering electives is available from the department.

4 Heatg Ventilat Air-Condg (ME 407) may be substituted for Energy Systems Design (ME 415).

5 The technical elective requirement may be fulfilled with a mechanical engineering elective course or an engineering, math, or science course from the approved list or with advanced petition to the mechanical engineering department. The approved list is available from the department.

Interim Term Courses

Humanities and social science courses taken during the Interim term may be counted toward the requirements for a BS degree in mechanical engineering. However, Interim courses can be used to fulfill mechanical engineering or technical elective requirements only if the specific courses have been approved in advance of registration by the Department of Mechanical Engineering.

Special Programs

Mechanical Engineering Program

The Mechanical Engineering Honors Program is part of the College of Engineering Honors Programs and is designed to provide an enhanced academic experience for highly-motivated, high-achieving students. The program develops problem-solving, critical-thinking and communication skills through a mentored experience-based activity. Research is particularly encouraged. Students completing the ME Honors Program will be awarded a certificate and recognized at the Honors Day ceremony in the student's senior year. Details can be found online at me.eng.ua.edu under the undergraduate program link.

University Scholars Program

The department participates in the University Scholars Program where a student who meets the qualifications as an honors student can apply to graduate school after the junior year and pursue the BS and MS simultaneously.

Undergraduate Research Program

The Supplemental Undergraduate Research Experience (SURE) program provides our students with an enhanced educational experience. This is achieved by teaming the student with a faculty mentor who will work with and guide the student as he/she completes a structured research project. Participation in the SURE Program will:

- sharpen the student's critical thinking skills
- enhance the student's ability to apply engineering analysis techniques
- improve the student's ability to communicate technical information
- increase the student's confidence in his or her engineering skills
- provide exposure to the graduate-level research environment

Details can be found online at me.eng.ua.edu under the undergraduate program link.

Cooperative Education

Many mechanical engineering students participate in the cooperative education program. This is an academic program where students alternate work terms in an engineering environment in industry with full-time terms of course work. Co-op can greatly enhance your academic experience and employment opportunities.

Faculty

Interim Department Head and Director, Center for Advanced Vehicle Technology

Midkiff, Jr., K. Clark

Professor and Robert F. Barfield Endowed Chair

Agrawal, Ajay K.

Professors

Balasubramanian, Bharat, Executive Director, Center for Advanced Vehicle Technology

Chou, Y. Kevin

Guo, Yuebin

Shepard, Steve

Taylor, Robert P.

Woodbury, Keith A.

Associate Professors

Ashford, Marcus

Fonseca, Daniel

Puzinauskas, Paul

Schreiber, Will

Todd, Beth A.

Williams, Keith

Assistant Professor

Fisher, Brian

Jordon, Brian

Ladani, Lelia

Mahmoodi, Seyed Nima

O'Neil, Zheng

Shen, Xiangrong

Volkov, Alexey

Yoon, Han-Sik

Professors Emeriti

Barfield, Robert F.

Parker, Joey K.

Harrisberger, Lee

Doughty, Julian O.

Evces, Charles R.

Kavanaugh, Steve

Courses

ME 121. INTRODUCTION TO MECHANICAL ENGINEERING. 1 sem. hr.
An introduction to the discipline of mechanical engineering and the role of the mechanical engineer, including both mechanical and thermal/fluid stems. Focus is on learning about the discipline through a series of student hands-on activities. Credit will not be given for this course for students who have passed ME 215.
Prerequisite(s): Math 112 or Math 113 or Math 115 or Math 125 or Math 126 or Math 145 or Math 146 or Math 227 or Math 238.
Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238.

ME 203. Engineering Economics. 3 sem. hrs.
Annual cost, present worth, rate of return and benefit-cost methods of determining prospective differences between or among design alternatives. Fixed and variable costs; retirement and replacement problems.
Prerequisite(s): MATH 100.

ME 215. Thermodynamics I. 3 sem. hrs.
Properties of matter; processes in fluids; zeroth; first and second laws; irreversibility.
Prerequisite(s): MATH 126 or MATH 146 or MATH 132.

ME 216. Thermal Engineering Survey. 3 sem. hrs.
Survey of thermal engineering topics for engineers outside mechanical engineering. To include an overview of subjects typically covered in courses about fluid mechanics, thermo-dynamics I and II, and heat transfer. An emphasis is placed on qualitative concepts of transport and conservation as they relate to thermal-fluids in order to increase the understanding of thermal engineering applications.
Prerequisite(s): MATH 126 or MATH 146.

ME 305. Thermodynamics II. 3 sem. hrs.
Thermodynamic cycle analysis, Maxwell relations and development of thermodynamic properties, and thermodynamics of non-reacting and reacting mixtures and chemical equilibrium.
Prerequisite(s): MATH 227 or MATH 247 and ME 215.

ME 308. Propulsion Systems. 3 sem. hrs.
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): ME 305.

ME 309. Heat Transfer. 3 sem. hrs.
Steady and unsteady conduction, convection and radiation heat transfer.
Prerequisite(s): MATH 238 and ME 215 and AEM 311.

ME 349. Engineering Analysis. 3 sem. hrs.
Elements of statistics, matrix algebra, numerical analysis, and partial differential equations applied to engineering problems; includes extensive computer applications. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Math 238 and GES 132 or ENGR 141 or ENGR 103.

ME 350. Static Machine Components. 3 sem. hrs.
The analysis of stresses of machine elements and the topics of fatigue strength, wear and failure criteria. Also includes the design of fasteners covering both bolted and welded joints.
Prerequisite(s): AEM 250 and DR 133 or DR 125 or ENGR 161.

ME 360. Contrl Instrumnt Components. 3 sem. hrs.
Introduction to selection and use of electrical, pneumatic, and other components of mechanical system instrumentation and control. Specific components include modern electrical measurement devices, signal conditioning, force and torque measurement, proximity sensors, AC and DC motors, etc. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250; and ECE 320 or ECE 225.

ME 364. Vehicle Dynamics. 3 sem. hrs.
Dynamics of four-wheeled vehicles, including acceleration and braking performance, road loads, ride comfort, steady-state cornering, suspensions, steering systems, and rollover. Vehicle dynamics system modeling programs are introduced and used for detailed investigations of the effect of system design parameters on performance.
Prerequisite(s): AEM 264.

ME 372. Dynamic Systems. 3 sem. hrs.
An introduction to the modeling, analysis and control of dynamic systems. The course takes the student from initial modeling through analysis of the system response and finally into the control of the system. Specific systems include mechanical devices, electrical circuits, and electromechanical systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 238 and AEM 264 and ME 349; and ECE 320 or ECE 225.

ME 377. Noise Control. 3 sem. hrs.
Physical properties of noise; hearing and noise criteria measurement techniques; and noise-control fundamentals applied to practical problems.
Prerequisite(s): MATH 238 and PH 106.

ME 383. Modern Manufacturg Processes. 3 sem. hrs.
A survey of classical and modern manufacturing processes. Emphasis is on technical fundamentals and practical applications. Components include geometric and service attributes of manufactured products, metal casting processes, forming processes, machine processes and joining processes. Practical project experience included.
Prerequisite(s): AEM 250 and AEM 251 and DR 125 or ART 131 or ENGR 161.

ME 406. Thermal Power Systems. 3 sem. hrs.
Study of thermal systems emphasizing large power generation systems.
Topics include Rankine and gas turbine cycles, fossil fuels combustion, boiler characteristics, cogeneration, combined cycle plants, environmental effects of power generation, and alternative energy concepts.
Prerequisite(s): ME 305.

ME 407. Heatg Ventilat Air-Condg. 3 sem. hrs.
Fundamentals and practice associated with heating, ventilating and air conditioning; study of heat and moisture flow in structures, energy consumption, human comfort and health; and design of practical systems.
Prerequisite(s): ME 309 and ME 305.

ME 415. Energy Systems Design. 2 sem. hrs.
Techniques of analysis and design of energy systems, including piping networks, heat exchangers and prime movers. Emphasis is on modeling and computational solutions.
Prerequisite(s): ME 309 and ME 305.

ME 416. Energy Conservtn & Manag. 3 sem. hrs.
Analysis of energy systems, including fossil fuels, steam, cogeneration, waste heat recovery, heating, ventilation, air-conditioning, control and energy-management systems. Topics include conservation in electrical load, lighting, building envelope, and insulation; alternative energy sources; economic analysis; energy auditing; and fuel sources and supplies.
Prerequisite(s): ME 309 and ME 305 and ECE 320 or ECE 225.

ME 417. Sustainable Energy. 3 sem. hrs.
Contemporary issues surrounding the challenge of providing energy for societal and economic development are examined. Depletion of fossil fuel resources and the impact of fossil fuel use on the environment and climate are considered. Alternative Sustainable sources of energy production are explored.
Prerequisite(s): ME 215.

ME 418. Combustion Engines. 3 sem. hrs.
Theory, design, and performance of combustion engines; fuels, oxidants, and propellants; and combustion, dissociation, ionization, and engine emissions.
Prerequisite(s): ME 305.

ME 421. Reliability Maint & TPM. 3 sem. hrs.
Measures and methods of reliability engineering, maintainability engineering and total productive maintenance, as used in the system design process.
Prerequisite(s): GES 255 or GES 500.

ME 430. Fuzzy Set Theory & Application. 3 sem. hrs.
This course introduces fuzzy set theory and its engineering applications to upper-class undergraduate students.
Prerequisite(s): GES 400 or GES 500.

ME 441. Intro Biomedical Engineering. 3 sem. hrs.
Introduction to the relationship between engineering and medicine. Modeling musculoskeletal and cardiovascular systems. Review of medical devices such as non-invasive imaging devices, biopotential electrodes and amplifiers, and assistive technology.
Prerequisite(s): MATH 238 and PH 106 and AEM 201.

ME 450. Dynamic Machine Components. 3 sem. hrs.
This course covers the selection and application of machine elements in dynamic systems. Specific components covered include transmission elements (gears and pulleys), mechanisms (linkages and cams), shafting, bearing systems and prime movers.
Prerequisite(s): AEM 264 and ME 350.

ME 460. Thermal Systems Instrumentn. 3 sem. hrs.
Selection and use of pressure, temperature, fluid flow and heat transfer instrumentation. Hands-on experiences with fluid flow, heat transfer, refrigeration and heat engine equipment. Statistical design of experiments. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ME 360 and ME 309.

ME 469. Prod Planning & Contrl. 3 sem. hrs.
Forecasting and estimation, aggregate planning, charts and network models, resource allocation, inventory control, sequencing and scheduling, dispatching, flow control, bills of materials, and requirements planning.
Prerequisite(s): GES 255 or GES 500; and IE 363 or GES 501.

ME 470. Mechanical Vibrations. 3 sem. hrs.
Free and forced vibrations, both undamped and damped, and systems with many degrees of freedom formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): ME 372 and AEM 250.

ME 471. Fundamentl Of Acoustics. 3 sem. hrs.
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements, and the associated instrumentation.
Prerequisite(s): MATH 238 and PH 106 and ECE 225 or ECE 320.

ME 475. Control Systems Analysis. 3 sem. hrs.
Classical and modern feedback-control system analysis; block diagrams, state variables, stability, root locus and computerized analysis. Includes an introduction to modern control techniques.
Prerequisite(s): ME 349 and ME 372.

ME 483. Computer-Aided Manufacturing. 3 sem. hrs.
Introduction and application of several technologies used in computer-aided design/manufacturing; computer-aided design, solid modeling, rapid prototyping, geometric dimensioning and tolerancing, machining process optimization, NC programming CNC machines, software-based product, and process design in machining.
Prerequisite(s): ME 383.

ME 485. Intro to Computer-Aided Design. 3 sem. hrs.
Basics of computer-aided design, including solid modeling, model assembly, structural and thermal analysis, mechanism simulation and parametric/optimization study. Interactive computer programs are used to design and analyze mechanical componens/devices.
Prerequisite(s): AEM 250 and ENGR 161.

ME 489. Mechanical Engg Design I. 3 sem. hrs.
Introduction to concepts and techniques of engineering design with supporting mathematical material. Guest lecturers present professional aspects of engineering. The Capstone Design Project is begun and carried on through ME 490 (ME 489 and ME 490 are taken in consecutive semesters).
Prerequisite(s): ME 350 and ME 309.

ME 490. Mechanicl Engr Design II. 3 sem. hrs.
In this semester-long internship experience, three-student teams serve as consultants to an industrial client. Emphasis is on conducting a professional design study and preparing written and oral presentations of the project.
Prerequisite(s): ME 489.

ME 491. Special Problems. 1-6 sem. hr.
This is a special topics lecture class or an assigned problem class. Credit is based on the amount of work undertaken.

ME 497. Mech Engineerg Project. 1-3 sem. hr.
An individual analytical, experimental or design project. Research on an assigned problem culminates in a required report.

Department of Metallurgical and Materials Engineering

The breadth of training afforded to engineers specializing in metallurgical and materials engineering permits entry into many exciting technical fields. All fields of

engineering involve metallic, ceramic, polymeric or composite materials. Virtually every component of any engineered structure is limited by the properties of the materials chosen for its fabrication. The selection, methods of production, heat treatment and finishing of the materials involved in all aspects of systems of transportation, power generation, communication, food preparation, entertainment and housing depend on individuals trained in materials. Exciting challenges exist in the development and application of 21st-century materials, which range from the new generation of superconductors and ultra-lightweight composites to new magnetic recording media and sophisticated high-temperature alloys.

It is the objective of the Department of Metallurgical and Materials Engineering undergraduate program to provide an educational experience that develops the fundamental scientific and technical engineering principles to prepare students for the 21st century. Students receive an integrated learning experience, which includes classroom and laboratory courses that enhance their analytical, experimental, synthesis and design skills for problem solving, that address their responsibilities to society and the environment, and that emphasize the growth of their teamwork, communicative and leadership talents. Student learning is stimulated by modern facilities that include sophisticated equipment and advanced computer technology in which individual attention is the rule rather than the exception.

Graduates of The University of Alabama's metallurgical engineering curriculum have distinguished themselves in many careers, holding a wide range of managerial, scientific and engineering posts across the country in industry, government and education. The four-year program leading to the BS degree in metallurgical engineering involves a 125-credit-hour course sequence. Advanced study may then be pursued, if desired, to earn the MS or PhD degree.

Metallurgical Engineering Curriculum

Freshman

Fall	Hours	Spring	Hours
CH 101	4	CH 102	4
EN 101	3	EC 110	3
MATH 125	4	EN 102	3
MTE 101 or ENGR 111	1	MATH 126	4
ENGR 103	3		
	15		**14**

Sophomore

Fall	Hours	Spring	Hours
MATH 227	4	AEM 201	3
MTE 252	3	MATH 238	3
MTE 271	3	MTE 275	3
PH 105	4	MTE 362	4
Humanities Elective (HU/L/FA)	3	PH 106	4
	17		**17**

Junior

Fall	Hours	Spring	Hours
ECE 320	3	MTE 353	3
MTE 373	4	MTE 416	4
MTE 380	3	MTE 455	4
Humanities elective (HU/L/FA)	3	Social and behavioral sciences elective (HI/SB)	3
AEM 250	3	Advanced science elective*	3
	16		**17**

Senior

Fall	Hours	Spring	Hours
MTE 441	4	MTE 445	3
MTE 443	3	MTE elective	3
MTE 481	4	Advanced Mathematics or Statistics elective	3
MTE elective**	3	Humanities elective (HU/L/FA)	3
		History or Social Behavioral Sciences elective (HI/SB)	3
	14		**15**

Total Hours: 125

* A list of acceptable science and math electives is available in the metallurgical and materials engineering department's office.

** MTE students may take any MTE 400-level course or higher with the permission of the instructor.

Faculty

Professor and Department Head

Acoff, Viola L.

Assistant Professor

Chopra, Nitin

Song, Jinhui

Associate Professor

Gupta, Subhadra

Nastac, Laurentiu

ACIPCO Professor

Reddy, Ramana G.

Professors

EL-Kaddah, Nagy

Suzuki, Takao

Thompson, Gregory B.

Warren, Garry W.

Weaver, Mark L.

Courses

MTE 121. Introduction to Materials . 1 sem. hr.
An introduction to the materials science and engineering profession and history. The course includes selected topics useful in the study of metallurgical and materials engineering.

MTE 155. Freshman Seminar. 4 sem. hrs.
This course will provide the science background today's citizens need to understand the problems and limitations society faces with respect to energy resources and the environment. Science concepts will be introduced as needed and within the context of energy, the environment, or materials. Students will be encouraged to critically analyze timely examples of energy usage or environmental problems from the news media. Students will gain an understanding of how engineering and technology, especially the development of new materials, can translate science to practical and beneficial outcomes.

MTE 252. Metallurgical Process Calculations. 3 sem. hrs.
Mathematical quantitative relations of chemical reactions and physicochemical processes; principles of overall mass and energy balances and the application of these principles to metallurgical systems.
Prerequisite(s): CH 102 and MATH 125.

MTE 271. Engineering Materials : Structure and Properties. 3 sem. hrs.
Basic structure of ceramics, alloys, composites, metals, and polymers. Relationships between the structure of materials and their mechanical, electrical, magnetic, thermal, and chemical properties.
Prerequisite(s): CH 101 or CH 117.

MTE 275. Engineering Materials Laboratory. 3 sem. hrs.
Alloy preparation and processing of materials. Materials testing and evaluation, laboratory procedures and techniques, metallography, heat treatment, phase diagrams, hardenability, and mechanical testing. Introduction to technical report writing and application to written laboratory reports.
Prerequisite(s): EN 101
Prerequisite(s) with concurrency: MTE 271.

MTE 353. Transport. 3 sem. hrs.
Definition of viscosity, elements of laminar and turbulent flow, and overall mechanical energy balance. Thermal conductivity, steady and transient conduction problems, forced and natural convection, heat transfer, and radiative heat transfer. Definition of binary diffusivity, convection mass transfer, and mass transfer coefficient. The application of the principles covered in the design of specific metallurgical systems.
Prerequisite(s): MATH 238 and MTE 252
Prerequisite(s) with concurrency: MATH 238.

MTE 362. Thermodynamics Of Materials. 4 sem. hrs.
Thermochemsitry applied to typical metallurgical reactions, graphical representations of equilibria, binary and ternary phase diagrams, hetergeneous equilibrium, behavior of solutions, standard states, and electrochemical thermodynamics.
Prerequisite(s): CHE 254 or MTE 252.

MTE 373. Physical Metallurgy. 4 sem. hrs.
Introduction to the principles of physical metallurgy. Topics include crystal structure, deformation, dislocations, point defects,diffusion, interfaces, nucleation theory, transformation, and growth.
Prerequisite(s): MTE 271 and MTE 362.

MTE 380. Synthesis, Processing and Manufacturing of Materials. 3 sem. hrs.
Detailed study of principal alloy, ceramic, and polymer systems. Evaluation of the effects or processing on selected physical and mechanical material properties. Overview of design fundamentals and examination of selected material/design case studies for manufacturing.
Prerequisite(s): MTE 271.

MTE 412. Polymer Materials Engineering. 3 sem. hrs.
Introduction to the manufacture, processing and applications of organic polymeric materials. The chemistry of polymer manufacture, the molecular structure of polymers, and athe structure-property relationships for thermoplastic and thermosetting polymers are covered.
Prerequisite(s): CH 102.

MTE 416. Fundamentals of Foundry Processing. 4 sem. hrs.
Introduction to the fundamentals of metal casting, including mold materials, molding methods, casting processes, gating and risering of castings, solidification microstructure and casting deflects.
Prerequisite(s): MTE 362 and MTE 380.

MTE 417. Simulation of Casting Processes. 3 sem. hrs.
This course will cover the rationale and approach of numerical simulation techniques, casting simulation and casting process design, and specifically the prediction of solidification, mold filling, microstructure, shrinkage, microporosity, distortion and hot tearing. Students will learn casting simulation through lectures and hands-on laboratory/tutorial sessions.
Prerequisite(s): MTE 416 or permission of instructor.

MTE 439. Metallurgy Of Welding. 3 sem. hrs.
Thermal,chemical, and mechanical aspects of welding using fusion welding processes. The metallurgical aspects of welding, including microstructure and properties of the weld, are also included.
Prerequisite(s): MTE 380 or permission of instructor.

MTE 441. Chemical Metallurgy. 4 sem. hrs.
Application of thermodynamics, fluid flow, and heat and mass transfer to the design and operation of chemical metallurgical processes; roasting, agglomerating, oxidation and reduction reactions, smelting, converting, and refining.
Prerequisite(s): MTE 353 and MTE 362
Prerequisite(s) with concurrency: MTE 443.

MTE 443. Materials Engineering Design I. 3 sem. hrs.
Principles of engineering design. Problem formulation, concept design, configuration design, parametric design, detail design, materials selection, manufacturing process selection, prototyping, project planning and cost analysis, application of computer-based design tools, concepts of shared responsibility, teamwork and communication. Analysis of problems, design and development solutions. Oral presentations and written reports. A project will be assigned. Final project presentations will be evaluated by the MTE faculty.
Prerequisite(s): EC 110, MTE 362, 373, 380
Prerequisite(s) with concurrency: MTE 441 and MTE 481.

MTE 445. Materials Engineering Design II (W). 3 sem. hrs.
Capstone design course. Students work in teams on design projects which involve evaluation of industrial based metallurgical or materials problems and emphasize societal impact. Implementation of design principles and the research plan developed in MTE 443. Interim and final design reviews with oral presentations and written reports. Final project presentation will be evaluated by the MTE faculty.
Prerequisite(s): MTE 416, 441, 443, 455, and 481.

MTE 449. Powder Metallurgy. 3 sem. hrs.
The course will cover the topic of powder metallurgy, describing the various types of powder processing and how these affect properties of the componentss made. Current issues in the subject area, from high production to nanomaterials will be discussed.
Prerequisite(s): MTE 373 and MTE 380.

MTE 450. Plasma Processing of Thin Films. 3 sem. hrs.
This course will cover fundamental technology involved in thin film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed, with special emphasis on sputtering tools. A range of thin film applications will be explored, with examples of magnetics, semiconductor, optical, and medical applications. The fundamentals of process optimization using a Design of Experiments will be taught with a test case of process optimization for the final exam.
Prerequisite(s): PH 106 and CH 102 or permission of instructor.

MTE 455. Mechanical Behavior Of Materials. 4 sem. hrs.
Flow and fracture of solids; uniaxial stress-strain as a reference behavior; theories of terminal stability under impact; monotonic, sustained (creep), and repeated (fatigue) loadings of solids under various states of stress.
Prerequisite(s): AEM 201 or permission of instructor.

MTE 476. Physical Ceramics. 3 sem. hrs.
Topics include ceramic raw materials, refractories, thermal properties, mechanical properties, processing, advanced ceramics, etc.
Prerequisite(s): MTE 353 and MTE 362 and MTE 373.

MTE 481. Analytical Methods For Materials. 4 sem. hrs.
Crystallography, physics of X-rays, diffraction by crystalline materials, applications of X-ray, electron and neutron diffraction, and spectrometric analysis of materials. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MTE 373 or permission of instructor.
Prerequisite(s) with concurrency: MTE 373.

MTE 487. Corrosion Science & Engineering. 3 sem. hrs.
The course is aimed at investigating the underlying fundamental causes of corrosion problems and failures. Emphasis is placed on the electrochemical reactions occurring and the tools and knowledge necessary for predicting corrosion, measuring corrosion rates, and combining these with prevention and materials selection.
Prerequisite(s): MTE 271 and CH 102 or permission of instructor.

MTE 491. Special Problems. 1-3 sem. hr.
An assigned problem is explored individually. Credit is based on the amount of work undertaken.

MTE 492. Special Problems. 1-3 sem. hr.
An assigned problem is explored individually. Credit is based on the amount of work undertaken.

College of Human Environmental Sciences

History and Objectives

Designated as Human Environmental Sciences in 1987, the College evolved from the tradition and heritage of home economics. Courses were offered as early as the summer session of 1911, with a Department of Home Economics in the College of Arts and Sciences established by 1917. The division became the School of Home Economics in 1931; Agnes Ellen Harris, AM, LLD, was appointed the first dean. Actively engaged in the transmission, generation and dissemination of knowledge, the College has three main objectives:

1. To provide students with the intellectual curiosity and professional competence needed for careers in business, industry, government agencies, health care and education.
2. To provide for the general education and intellectual growth of students in other divisions.
3. To contribute to the body of knowledge that is the foundation for continued enrichment of the educational experience.

Admission and Retention Requirements

The College of Human Environmental Sciences follows the admission and retention standards set by the University. The standards for admission to specific professional programs and the conditions for retention in those programs are indicated in the departmental information that follows. The College of Human Environmental Sciences reserves the right to change policies, procedures, degree requirements, schedules, courses offered and other standards in light of circumstances that may arise after the publication of this catalog.

Degrees and Programs Offered

Human Environmental Sciences programs are offered at the bachelor's, master's and, in some cases, doctoral levels. Upon the successful completion of the requirements established for each curriculum, the appropriate degree may be conferred. Each student selects a major from the following curricula:

College of Human Environmental Sciences
Human Environmental Sciences

Department of Clothing, Textiles and Interior Design
Apparel and Textiles
Interior Design

Department of Consumer Sciences
Consumer Sciences

Department of Health Science
Athletic Training
General Health Studies

Department of Human Development and Family Studies
Early Childhood Education
Human Development and Family Studies

Department of Human Nutrition and Hospitality Management
Food and Nutrition
Restaurant, Hotel and Meetings Management

Second Bachelor's Degree

To earn a second bachelor's degree in the College, a student must complete a residence in the College of Human Environmental Sciences with a grade average of C (2.0 grade point average) or better and a minimum of 30 hours beyond the hours required for the first degree. The work must be completed in accordance with all other University and college regulations.

General Degree Requirements

The minimum requirements for a degree in the College of Human Environmental Sciences at The University of Alabama are:

- A minimum of 120 earned semester credit hours, including all University Core Curriculum requirements and the human environmental sciences core courses (HES 310 Issues Human Envir Sciences for all students and HES 100 Freshman Compass Human Env Sci for new freshmen on campus HES 103 Distance Compass HESfor new online freshman).
- A 2.0 or higher grade point average for all college-level courses attempted, all courses attempted at The University of Alabama and all courses attempted in the major field of study.
- At least 30 semester credit hours earned in residence in the College of Human Environmental Sciences, including at least 9 of the last 18 hours required for a degree.

It is the student's responsibility to make sure that all degree requirements have been met. Students should review the academic requirements in the catalog and on DegreeWorks and arrange to meet with their academic advisors in the College of Human Environmental Sciences two semesters prior to graduation to verify that all requirements will have been fulfilled by the expected date of graduation. In order to graduate, a student must submit an application for degree using the online application for degree on mybama no later than the time he or she registers for the final semester in residence.

Academic Advising

Once the student chooses a major in the College of Human Environmental Sciences, he or she is assigned a departmental academic adviser/mentor who will counsel him or her about degree requirements, appropriate course sequencing and other academic matters. It is the student's responsibility to consult with the academic adviser and then plan and complete an appropriate course of study. Students need to pay careful attention to requirements of the University Core Curriculum, specifically noting any prerequisites that must be met before enrollment in courses that carry core curriculum designations. The core curriculum at mybama.ua.edu should be consulted each semester to determine whether a core curriculum designation remains in effect at the time the student is enrolling in the course. Early in the program, the student should plan an appropriate sequence to satisfy the core curriculum requirements. Students should check with the office of student services of the College of Human Environmental Sciences to verify the successful completion of core curriculum requirements.

Class Hour Load

The College of Human Environmental Sciences enforces the same restrictions on class hour loads as the University. These restrictions are outlined in Academic Records and General Academic Policies (p. 12) section of this catalog.

Transfer Students

A student who transfers into the College of Human Environmental Sciences from another institution must complete EN 101 English Composition and EN 102 English Composition if he or she has not done so previously.

A transfer student must earn at least 30 hours of credit in residence in the College of Human Environmental Sciences. Transfer students planning to enter certain majors in the College should be aware of the existence of a required sequence of courses.

Declaration of a Minor

A student pursuing a degree in the College of Human Environmental Sciences may choose a minor course of study within the College or within another academic division. In this catalog, the courses required in particular minors are listed along with the requirements for majors in that division and department. The requirements for minors in Commerce and Business Administration, however, are explained in the section on the College of Arts and Sciences.

Students may declare a minor online through mybama using the Change Major/Minor link under the Student tab. The student is responsible for reviewing minor requirements through the listing in the academic catalog and on the DegreeWorks audit. When the student meets with the registrar of Human Environmental Sciences to verify the completion of all graduation requirements, the minor area requirements are also verified. If the student satisfactorily completes all requirements for the minor, the minor is included on the student's transcript.

Faculty

Dean

Boschung, Milla D.

Executive Secretary

Jones, Genna

Associate Dean

Usdan, Stuart

Assistant Dean

Peeples, Victoria

Director of Financial Affairs

Siders, Lorraine

Director of Development

Baker-Parton, Amy

Registrar

Kelly, Carmen

Interim Head of the Department of Clothing, Textiles, and Interior Design

Foster, Shirley

Head of Department of Health Science

Birch, David

Head of the Department of Human Development and Family Studies

Tingle, Carroll

Head of Department of Nutrition and Hospitality Management

Meyer, Mary K.

Coordinator of Computer Laboratories and Services

DeWitt, Regina

Director of Child Development Resources

Edwards, Sally

Director of the Children's Program

Hollingsworth, Robin

Director of Rise School

Cook, Martha

Professors

Bolland, John

Hernandez-Reif, Maria

Neggers, Yasmin

Prince, Barrie Jo

Stinnett, Nick

Turner, Lori

Wright, Ken

Associate Professor

Baynes-Dunning, Karen

Curtner-Smith, Mary Elizabeth

Enders, Linda

Hilliard, Tyra

Hodge, William

Knol, Linda

Koontz, Marcy

Leaver-Dunn, Deidre

McFadden, Anna C.

Scofield, Jason

Thompson, Amanda

Assistant Professor

Babiarz, Patryk

Boyle, Kimberly

Brakefield, Jan

Cook, Reuben

Crowe, Kristi

Fulmer, Caroline

Gordon, Brian

Kissinger, Beverly

Lawrence, Jeannine

Maki, Kristin

McGahey, Courtney

Nickelson, Jen

Nuih, Alvin

Peaslee, John

Pentecost, Eve

Reddoch, Kym

Sickler, Stephanie

Tong, Xiao

Wimberley, Virginia

Woodyard, Ann

Zemke, Jeri

Instructors

Blumenthal, Jason

Bridgewater, Diane

Davis, Barbara

Faulkner, Cassandra

Galloway, Hunter

Greene, Lori

Harcrow, Andy

Lee, Michelle

McCool, Lori

McMath, Juanita

Robinson, Paula

Stinnett, Nancy

Taylor, Brian

Emeritus

Abdel-Ghany, Mohamed

Balentine, Margaret

Burton, Doris

Callis, Carolyn

Crenshaw, Mary A.

Darden, Leatha

Hancock, Shelley

Hodges,Patricia

Hudson, Carmen

Jackson, Ernestine

Jessee, Peggy

Kendrick, Olivia

Ladewig, Becky

Luck, Cynthia

James, Dennis

Lane, Ralph

Maize, Roy

Meyer, Frieda

Parker, Sue

Roper, Lydia

Stewart, Carolyn

Stitt, Kathleen

Strickland, Martha

Switzer, Mildred

Athletic Training (ATR) Courses

ATR 257. Intro to Athletic Training. 3 sem. hrs.
The study of current principles in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.

ATR 258. Clinical Fundamentals. 1 sem. hr.
The study and practice of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, rehabilitation and reconditioning of injuries and illnesses. Directed observations under the guidance of BOC certified athletic trainers.

ATR 272. First Aid, Safety & CPR. 2 sem. hrs.
The discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children and adults and AED use.

ATR 300. Foundations in Athl. Training. 3 sem. hrs.
Study and discussion of topics and clinical skills related to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Introduction to the organization and administration of athletic training programs.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 310.

ATR 310. Clinical Skills I. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and BSC 215 and NHM 315 and ATR 300
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 300.

ATR 320. Clinical Skills II. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the lower extremities. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and NHM 315 and ATR 357 and BSC 216 and KIN 365
Prerequisite(s) with concurrency: ATR 357 and BSC 216 and KIN 365.

ATR 357. Clinical Evaluation & Diagn I. 3 sem. hrs.
Study of the lower extremities as they relate to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215
Prerequisite(s) with concurrency: BSC 216 and KIN 365 and ATR 320.

ATR 358. Clinical Eval. Diagnosis II. 3 sem. hrs.
Study of the upper extremities as they relate to the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 457 and ATR 410.

ATR 360. Clin Eval & Diagnosis II. 3 sem. hrs.
Study of the head, neck, face, abdomen, thorax and thoracic and lumbar spines as they relate to the preventions; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 420 and ATR 456.

ATR 410. Clinical Skills III. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and ATR 358 and ATR 457
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 457.

ATR 420. Clinical Skills IV. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and KIN 492 and ATR 360 and ATR 456
Prerequisite(s) with concurrency: KIN 492 and ATR 360 and ATR 456.

ATR 430. Clinical Skills V. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well organized athletic training program. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and ATR 454 and ATR 455 and BSC 215 and BSC 215 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 454 and ATR 455.

ATR 453. Appl Clin Res Skills. 3 sem. hrs.
Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings. Offered summer semester.
Prerequisite(s): ATR 300 and ATR 310 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101.

ATR 454. Org. Ad. Athletic Training. 3 sem. hrs.
Current theories, methods and techniques in the organization and administration of athletic training programs.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101.

ATR 455. Pharm Path Athl Training. 3 sem. hrs.
The study of acute and chronic illnesses and their response to and the impact on, physical activity. Discussion of pharmacologic agents used in the management of common acute and chronic illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 454.

ATR 456. Principles of Rehab & Recon. 3 sem. hrs.
Methods, theories and techniques in the rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to rehabilitation and reconditioning.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 360 and ATR 420 and KIN 492.

ATR 457. Therapeutic Modalities. 3 sem. hrs.
Current theories, methods and techniques in the application of therapeutic modalities during the treatment rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to therapeutic modalities.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410.

ATR 458. Seminar in Athl. Training. 3 sem. hrs.
Discussion of current issues in athletic training with an emphasis on research and the application of current research to the practice of athletic training. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 430, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457.

ATR 488. Internship in Athl Training. 1-12 sem. hr.
Directed internship in a health care facility for the senior athletic training student.

ATR 490. Anatomical Basis. 3 sem. hrs.
An in depth review of the anatomical structures associated with common orthopaedic injuries. Cadaveric dissection and prosection review activities included.

ATR 496. Ind Study Athletic Training. 1-12 sem. hr.
Independent study of skills and topics in athletic training for the senior athletic training student.

Athletic Training (HAT) Courses

HAT 455. Pharmacology Athletic Training. 3 sem. hrs.

Clothing, Textiles and Interior Design (CTD) Courses

CTD 102. Applied Design. 3 sem. hrs.
Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD 121. Intro Interior Design. 3 sem. hrs.
Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two laboratory one lecture
Prerequisite(s) with concurrency: DR 135.

CTD 215. Introduction to Rendering. 3 sem. hrs.
An introduction to achromatic and contemporary color graphics media used in sketching, rendering and design drawings, with emphasis on schematics used in problem solving and rapid rendering techniques for interior delineation.
Prerequisite(s): CTD 121.

CTD 216. Beginning Weaving. 3 sem. hrs.
Study of original design in loom weaving techniques; dressing the loom; drafting designs; and weaving and finishing procedures. Offered irregularly. Two laboratories.

CTD 217. Fashion Illustration. 3 sem. hrs.
Emphasis is on the development of the fashion figure, design details, fabric rendering, flats, customer profile analysis, and collection development. In addition, students using advanced computer design software, create original digital design layouts of their work. Two lectures, one laboratory.
Prerequisite(s): CTD 102 and ART 110.

CTD 221. Matl Source Int Design. 3 sem. hrs.
Study of manufacturers' products for residential and nonresidential interior design; construction materials, finishes, furniture and furnishings. Offered in the fall semester.

CTD 225. Residnt Des/Graphic Comm. 3 sem. hrs.
Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of programming, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 121 DR 135 or Permission of Instructor
Prerequisite(s) with concurrency: DR 135 and CTD 121.

CTD 226. Nonresidential Design. 3 sem. hrs.
Fundamentals of nonresidential interior design with emphasis on presentation graphics. Exploration of programming, spatial organization, and codes and standards for the business environment. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 225.

CTD 231. Sewn Products Analysis. 3 sem. hrs.
Structural analysis of textile products for apparel and household use. Focus on products, standards, specifications, and relationships among performance, quality, and price.
Prerequisite(s): CTD 261.

CTD 241. Apparel Construction. 3 sem. hrs.
Introduction to apparel producer-retailer relationships. Emphasis on quality control and time management in meeting apparel specifications through application of apparel construction, fitting, and pattern alteration principles. Two laboratories.

CTD 245. Apparel Production. 3 sem. hrs.
Team approach to apparel product development including market research, design concepts, garment specification writing, sourcing, costing, production, quality control, and promotional materials. Offered in the spring semester. Two laboratories.

CTD 250. Construction Procedures for Interior Design. 3 sem. hrs.
Building construction for interior designers with emphasis on architectural procedures and systems including electrical, plumbing, lightning, acoustical, and thermal control. Includes introduction to Revit software
Prerequisite(s): CTD 226.

CTD 255. Comp Appl for Interior Design. 3 sem. hrs.
This course will provide students with a basic understanding of computer software applications and project documentation commonly used in interior design. Software introduced includes: Photoshop, InDesign, Sketchup, and 3D Studio Max. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CTD 226 CS 102.

CTD 261. Textiles. 3 sem. hrs.
Characteristics of the textile industry, fibers, yarns, fabric construction, and finishes. Selection, care, and performance characteristics.

CTD 281. Fashion Retailing I. 3 sem. hrs.
Organization, promotion methods, and interrelationship of the textiles, apparel, and retailing industries. Includes consumer demand and diffusion of fashion. Offered in the fall semester.

CTD 300. New York Study Tour. 3 sem. hrs.

CTD 301. I. D. New York Study Tour. 3 sem. hrs.

CTD 312. Advanced Computer Applications. 3 sem. hrs.
This course will provide students with an advanced understanding of computer software applications and project documentation commonly used in interior design. The skills are presented in a format that emphasizes use of the computer as a creative tool. Computer Software used in class: Photoshop and Revit. Extensive use of the computer is a condition for passing the class.

CTD 319. Textile Design. 3 sem. hrs.
Using the latest computerized design systems, students create original designs, repeats, colorways, and coordinates targeting specific markets. Emphasis is on the creative use of advanced software, awareness of industry trends and the development of an original portfolio of digitally produced designs.
Prerequisite(s): CTD 102.

CTD 320. Visual Merchandising. 3 sem. hrs.
Introduces contemporary display techniques, equipment, and materials for designing three-dimensional product presentations within the retail environment. Using advanced computer software, students create and execute original visual programs and storewide promotions. Two lectures, one laboratory.
Prerequisite(s): CTD 102.

CTD 321. History of Interiors I. 3 sem. hrs.
Study of the furnishings, interior treatments, and lifespaces characteristic f selected styles up to 1790. Offered in the Fall semester
Prerequisite(s): CTD 226.

CTD 323. Interior Design Internship Sem. 1 sem. hr.
Exploration of internship possibilities and requirements, development of job-search skills and internship placement.
Prerequisite(s): CTD 226.

CTD 325. Design For Special Populations. 3 sem. hrs.
Design of interior environments for persons with special needs such as health care, rehabilitation, education, and congregate-care interiors. Cabinet and millwork design. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 226.

CTD 326. Design For Hospitality Interio. 3 sem. hrs.
Planning and design of interior spaces; project management; design and specification of interior architectural materials and furnishings. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 325.

CTD 328. Prof Proced Interior Des. 3 sem. hrs.
Philosophy and organization of professional practice; studio management, contracts, budgets, specifications, and professional organizations. Offered in the spring semester.

CTD 330. Autocad for Interior Design. 3 sem. hrs.
Principles, terminology, command sequencing and execution, and equipment use for computer-aided design applications within the field of interior design. Review of basic commands with emphasis on intermediate and advanced applications.
Prerequisite(s): CS 102.

CTD 335. Interior Design Media. 3 sem. hrs.
Emphasis is on developing rendering techniques and improving some portfolio pieces as time allows. Freehand perspective methods will be demonstrated, practiced, and applied.

CTD 340. Portfolio Development. 3 sem. hrs.
Dedicated to the study and completion of a student portfolio.

CTD 341. Italian Fashion. 3 sem. hrs.
Students travel to italy to research and experience the influence of culture on the fashion industry.
Prerequisite(s): CTD 281.

CTD 349. Compt-Aid Apparel Design. 3 sem. hrs.
Application of computer technology to fashion illustration, apparel design, marker making, pattern making, and pattern grading. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 350. Flat Pattern Design. 3 sem. hrs.
Principles and procedures governing development and use of master patterns. Application of flat pattern principles to the execution of original designs. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 245.

CTD 351. Apparel Des Thru Drpng. 3 sem. hrs.
Techniques of draping on a dress form are applied in the execution of original designs. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 353. Language of Design. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EN 101 and EN 102; or EN 103 and CTD 121.

CTD 355. Global Influences on Design. 3 sem. hrs.
Prerequisite(s): CTD 121.

CTD 371. Lighting For Interiors. 3 sem. hrs.
Integration of the theory, techniques, and art of lighting design; principles, terminology, and equipment used in light distribution systems in the interior environment. Two lectures, one laboratory.
Prerequisite(s): CTD 226 and DR 250 and DR 135.

CTD 381. Fashion Retailing Seminar. 3 sem. hrs.
Focus on professional development and profit analysis. Exploration of internship possibilities and requirements, development of job-search skills, and internship placement. Enrollment open to students applying for fashion retailing internships. Offered in the spring semester.

CTD 387. Fashion Marketing. 3 sem. hrs.
It is the purpose of the this course to provide retailing and fashion design students with a marketing course that focuses on the fashion industry. Course Description - Apply the four Ps of the marketing concept - Price, Product, Promotion and Place - to the fashion industry, including branding, promotion, internaional marketing, and consumer behavior as related to the fashion industry.
Prerequisite(s): CTD 281.

CTD 415. History Textile Design. 3 sem. hrs.
Study of the history of textiles emphasizing the influence of cultural factors. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 422. History Of Interiors II. 3 sem. hrs.
Study of research methods and design theories utilizing historical knowledge from CTD 321. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 423. Intern Interior Design. 3 sem. hrs.
Experience in interior design or related business under supervision of advisor and the business management. Offered during the summer session.

CTD 425. Advanced Residential Design. 4 sem. hrs.
Problems in design of the home environment; individual and group problem solving. Emphasis is on historic preservation principles and practices for interior designers. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 326.

CTD 426. Advanced Nonresidential Design. 4 sem. hrs.
Problems in design of business and professional interiors; construction drawings using computer-assisted design; individual and group problem solving. Requires senior thesis. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 425.

CTD 427. Advanced Computer Applications in Design. 3 sem. hrs.
This course will provide students with an overview of computer software applications and project documentation commonly used in design. The course will provide an overview and introduction to Revit and 3d studio max.
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 446. Cult Dynam Apparel Text. 3 sem. hrs.
Impact of cultural dynamics on apparel and textile production and marketing. Offered in the spring semester.

CTD 447. Text Apparl Intnat Trade. 3 sem. hrs.
Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 or EC 111; and CTD 281.

CTD 448. History Of Costume. 3 sem. hrs.
Costume development from prehistoric to modern times. Study of cultural forces in relation to the evolution of costume. Offered in the fall semester.

CTD 450. Advanced Apparel Design. 3 sem. hrs.
Synthesis and application of design theories; procedures and processes used in the apparel industry. Development of portfolio of original design work is required. Two laboratories. Offered in the fall semester.
Prerequisite(s): CTD 350 and CTD 351.

CTD 455. Advanced Computer Applications In Design. 3 sem. hrs.
The course will provide students with an overview of computer software applications and project documentation commonly used in design. The Course will provide an overview and introduction to Revit and 3d studio max. The Skills are presented in a format that emphasizes use of the computer as a creative tool. Students will develop a mastery of the programs in subsequent courses Extensive use of the computer is a condition for passing this course.3
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 461. Qual Contr Textile Prod. 3 sem. hrs.
Use of standard laboratory test methods and computerized statistical data analysis to evaluate the quality of textile products. Block course. Offered in the fall semester.
Prerequisite(s): CTD 261.

CTD 481. Fashion Retailing II. 3 sem. hrs.
Merchandise planning and control; techniques of merchandising, including unit and dollar assortment planning, inventory control, and procurement. Block course. Offered in the fall semester.
Prerequisite(s): CTD 381.

CTD 485. Intern Fashion Retailing. 6 sem. hrs.
To participate, students must make application to the department by the first day of classes during the spring semester of the junior year. A grade point average of 2.50 or higher is required for the professional courses specified under "Fashion Retailing Concentration for AT Majors" in this catalog. The course involves supervised work experience in a business related to the major field of study.
Prerequisite(s): CTD 381.

CTD 498. Directed Indiv Studies. 1-6 sem. hr.
Independent Study.

CTD 499. Directed Indiv Studies. 1-6 sem. hr.

Consumer Sciences (CSM) Courses

CSM 101. Consumers And Technology. 3 sem. hrs.
The course features the use of basic applications of the computer, including word processing, database, electronic presentation, Internet searching, and fundamental computer maintenance. Students may not receive credit for both CSM 101 and CS 102.

CSM 116. The Mathematics of Compounding in Goal-Setting. 3 sem. hrs.
This course includes topics such as finite mathematics, the real number system, probability, and the algebra of functions with an emphasis on mathematical induction. This course includes money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning as the basis for mathematical problem solving exercises.
Prerequisite(s): MATH 100.

CSM 201. Indiv Family Resourc Mgt. 3 sem. hrs.
Management of human, material, and environmental resources to accomplish value-based goals. Highlights importance of decision making to achieve satisfaction and improve quality of life across the family life cycle.

CSM 204. Intro Personl Finan Plan. 3 sem. hrs.
The course presents financial planning within the context of the family life cycle and the consumer decision-making framework. It provides an overview of topics such as family financial goal setting, budgeting, risk management, savings, and investments.

CSM 206. Prac Fin Plan for Rest of Us. 3 sem. hrs.
Provides basic tools and technology necessary for development of a successful personal financial plan over one's life span. Topics include money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning.

CSM 300. Time Value of Money & Financial Calculations. 1 sem. hr.
The focus of this course is to develop a better understanding of the Time Value of Money concept and the types of financial calculations that will be required in courses such as Introduction to Investment Planning, Asset Management, Retirement Planning and the Capstone Course in Financial Planning.
Prerequisite(s) with concurrency: CSM 204.

CSM 301. Charact of a Good Leader. 3 sem. hrs.
Examine ways in which to become an effective leader. Evaluate leadership skills of others as they relate to knowledge obtained through chosen literature. Enhance the qualities of good leadership within oneself.

CSM 381. Consumer Marketing Management. 3 sem. hrs.
Principles of consumer-oriented marketing management with emphasis on consumer decision-making theory and practice.

CSM 390. Field Experience. 1-6 sem. hr.
Supervised experiences in the areas of consumer affairs or family financial planning with government, business, or industry.

CSM 400. Personal Insurance Plan & Mgt. 3 sem. hrs.
Survey of myriad of personal risks facing consumers and families throughout the life cycle. Emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.
Prerequisite(s): CSM 201 and CSM 204.

CSM 401. Consumer Protection. 3 sem. hrs.
Laws and agencies affecting the consumer's well-being, sources of consumer information, discussion of current consumer issues. Writing proficiency is required for a passing grade in this course.

CSM 403. Consumer Economics. 3 sem. hrs.
The role of the consumer in the economy. Economic analysis of market and nonmarket consumption activities, incorporating relevant social, psychological, political, and ecological considerations. Offered in the spring semester.

CSM 404. Personal Investment Plan & Mgt. 3 sem. hrs.
Concepts and techniques related to family financial investments.
Prerequisite(s): CSM 201 and CSM 204.

CSM 405. Public Policy. 3 sem. hrs.
A detailed analysis of U.S. public policy, recognizing the broader social and economic impacts of selected policies. Students will develop a better understanding of how and why specific policies are implemented and assess the strengths and weaknesses of different policy structures.

CSM 406. Consumer Mgt Quality Assurance. 3 sem. hrs.
Provides in-depth coverage of the primary theories and methods necessary for quality assurance in a wide range of organizational settings.

CSM 407. Consumr Qual Mgt Facilitn Skil. 3 sem. hrs.
Provides a comprehensive study of facilitation skills necessary to lead an organization in continuous improvement.

CSM 408. Consumer Quality Mgt Systems. 3 sem. hrs.
Provides an in-depth analysis of management systems as a method for organizing and leading business, educational, and health care institutions. The course will cover the primary issues related to management systems.

CSM 409. NY Wall Street Stdy Tour. 3 sem. hrs.
Provides an overview of the American financial system with emphasis on financial service providers, products and markets. Includes a 6-day tour of New York's financial district, presentations by financial professionals, team activities, assignments and stock market analysis.

CSM 410. Pers Retire Plan Employ Benefs. 3 sem. hrs.
Fundamentals for personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 201 and CSM 204.

CSM 413. Emotional Intelligence for Resolving Conflict and Career Success. 3 sem. hrs.
This course emphasizes insight and skill development that provides a foundation for students' success in business, career and life. The course is strength-oriented and encourages self-evaluation, self-determination and lifelong learning.

CSM 414. Personal Investment Planning & Management II. 3 sem. hrs.
This course expands upon the content of CSM 404/504, adding a number of new concepts that are relevant to understanding the management of investments for family and individual goal attainment. Lectures, readings, case studies, and problem sets are designed to help students in preparing for the Investment Planning section of the Certified Financial PlannerTM examination
Prerequisite(s): CSM 404.

CSM 415. Customer Service Management. 3 sem. hrs.
An in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Analysis of consumer needs, complaints, and education.

CSM 420. Personal Estate Planning. 3 sem. hrs.
Techniques of personal estate planning within the family life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 424. Addict. & Dysf. in Money Mgmt. 3 sem. hrs.
CSM 424/524 is an exploration of addictions and dysfunctions related to managing money and finances and a brief guide for changing dysfunctional behavior related to money. The course does not provide training in diagnosing, but rather emphasizes describing behavior.

CSM 425. Cons Conflict Med, Mgt & Neg. 3 sem. hrs.
A study of the various techniques of conflict resolution in consumer affairs.

CSM 427. Cons Conflct Med, Mgt & Neg I. 3 sem. hrs.
An in-depth study of skills to mediate, negotiate and manage conflict in the home and workplace. Written analysis is integral.

CSM 428. Cons Conflct Med, Mgt & Neg II. 3 sem. hrs.
Advanced exploration of the dynamics and impact of communication and difference on conflict mediation, negotiation and management. Students will expand understanding of human difference on the ability to work through conflict situations. Students will develop self-evaluation skills related to conflict experiences.

CSM 430. Family & Consumer Law. 3 sem. hrs.
The study of family and consumer law in specific issues of marriage, parent-child relationships, divorce, and the economic consequences of divorce, as well as consumerism and a general understanding of legal terms, resources, the legal system, and adversarial proceedings.

CSM 435. Psychology Of Money. 3 sem. hrs.
An innovative study of financial behaviors and their relationship to money management with emphasis placed on both theory and its application.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CSM 437. Developing The Leader Within. 3 sem. hrs.
An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.

CSM 440. Maximizing Use of Social Media Marketing. 3 sem. hrs.
In this course students will develop skills for strategic social media marketing and engagement. They will explore and utilize techniques for integrating social media marketing campaigns that serve as listening and outreach tools in building brand awareness. This course will provide a framework for online brand management and promotion for careers and majors in the college of Human Environmental Sciences.

CSM 441. Consumer Communications. 3 sem. hrs.
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Writing proficiency and use of the computer are required for a passing grade in this course.
Prerequisite(s): CS 102 or CSM 101.

CSM 445. Microcomp Appl Con Serv. 3 sem. hrs.
Encompasses the collection of technical skills and scientific methodologies which can be used to create computer-based solutions to real problems encountered in consumer services.
Prerequisite(s): CS 102 or CSM 101.

CSM 447. Digital Tools. 3 sem. hrs.
Provides students with skills to live and work in a digital environment by developing technological skills in use and application of computers, Internet, and other digital tools.
Prerequisite(s): CS 102 or CSM 101.

CSM 454. Personal Income Tax Mgt Planng. 3 sem. hrs.
An analysis of personal income tax management and planning as it relates to consumers and families throughout the life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 458. Spreadsheets in Fin. Decisions. 3 sem. hrs.
The focus of this course is to develop a working knowledge of Microsoft Excel as it may be used to analyze problems related to personal financial planning. The course emphasizes life-cycle planning and computer literacy. The course is designed to help students in becoming better prepared for the actual workplace environment.
Prerequisite(s): CSM 204 or RHM 474 or AC 210.

CSM 459. Tech of Counsl in Cons Science. 3 sem. hrs.
Fundamentals of counseling, communication, and ethics.

CSM 460. Personl Finan Plan Couns Tec. 3 sem. hrs.
A systems approach to financial management for individuals and families from the perspective of planner/counselor. Focuses on analytical techniques. Emphasizes identification and development of strategies for meeting client goals.
Prerequisite(s): CSM 201 and CSM 204 and CSM 400 and CSM 404 and CSM 458.

CSM 462. Financial Planning Practice Management. 3 sem. hrs.
An in-depth look at the professional side of careers in Consumer Sciences. Experiental activities, guest speakers, faculty lecturers and student projects provide students with opportunities to learn and practice traits, skills and abilities needed for a successful career.

CSM 475. Entrepreneurship In Hes. 3 sem. hrs.
A study of home-based businesses taught from the perspective of theory and application in family resource management.

CSM 480. E-Commerce@Human Envir Science. 3 sem. hrs.
Offers sound advice and vital practical help on developing an idea into a business on the Internet, addressing areas of specialization in human environmental sciences.

CSM 486. Consumer Conflict Mediation, Management & Negotiation III. 3 sem. hrs.
Survey of the theory and practice of the Employee Assistance Program (EAP). Six content areas will assist students in identifying their strengths and weaknesses in relation to the content areas.

CSM 490. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 491. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 492. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 493. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 499. Undergraduate Rsch. 3 sem. hrs.
Under faculty supervision, student will participate in a research project.

General Health Studies (HHE) Courses

HHE 270. Personal Health. 3 sem. hrs.
A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE 273. Community And Public Health. 3 sem. hrs.
Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE 370. Prin/Foundatn Health Promotion. 3 sem. hrs.
The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.
Prerequisite(s): HHE 273.

HHE 378. Drug Awareness Education. 3 sem. hrs.
Introduction to topics associated with drug-taking behavior, emphasizing drug education. Physiological, psychological, and sociological aspects of drug-taking behavior are examined. Writing proficiency within this discipline is required for a passing grade in this course.

HHE 440. Understanding Stress Mgt. 3 sem. hrs.
An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE 445. Environmental Health. 3 sem. hrs.
The course is designed to promote the acquisition of environmental health knowledge and skills for application in community/public health education settings. Course content will address environmental factors that affect human and ecological health and environmental health education and promotion strategies.

HHE 446. Health Disparities. 3 sem. hrs.
This course is designed to explore health disparities in the United States and throughout the world. Course content will address societal factors that have an impact on health disparities. The course focus will also address cultural competency and appropriate health education and promotion strategies.

HHE 467. Design Eval Health Promo. 3 sem. hrs.
Designed to help health educators develop competencies in program design, implementation, and evaluation.
Prerequisite(s): HHE 370.

HHE 468. Pract Appl Health Comm & Promo. 3 sem. hrs.
A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.
Prerequisite(s): HHE 370.

HHE 480. Culminating Experience in Health Education and Promotion. 3 sem. hrs.
The purpose of this course is to provide students with an opportunity to apply health education and promotion competencies developed through their undergraduate course experiences. The course will include observations, application, and reflection of professional practice in a community/public health education program.
Prerequisite(s): HHE 370 and HHE 467 and HHE 468.

HHE 488. Internship Communty Hlth. 1-12 sem. hr.
Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.

HHE 496. Independent Study. 1-6 sem. hr.
Designed to provide the opportunity for independent work in any area of health education/health promotion.

Human Development and Family Studies (HD) Courses

HD 101. Life Span Human Development. 3 sem. hrs.
An introductory survey of basic principles of human development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial development.HD 101 counts toward the Social and Behavioral Sciences requirement of the UA Core.

HD 155. Freshman Seminar. 3 sem. hrs.

HD 202. Child Dev-Infancy/Todlr. 3 sem. hrs.
The growth and development of the child from conception to three years of age are studied. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week.

HD 203. Medical Terminology. 2 sem. hrs.
A study of medical language by exploring the structure, meaning and usage of terms frequently utilized in health care settings. A basic summary of the body systems is included.
Prerequisite(s): BSC 109 or BSC 114 or BSC 118 and BSC 115.

HD 205. Child Dev-Preschool. 3 sem. hrs.
Growth, development, and guidance of young children. Practical implications of research and major theoretical issues and observational techniques are addressed. The importance of play in fostering a broad range of developmental goals for children is stressed. Three lecture hours, one laboratory hour per week.

HD 210. Understanding Addiction. 3 sem. hrs.
This course is an examination of chemical addiction (e.g.drugs) and behavioral addiction (e.g.,gambling). Theories of addiction, treatment of addiction, and current research on addiction will be discussed.
Prerequisite(s): None.

HD 226. Introduction To Child Life. 3 sem. hrs.
Provides students with an introduction to the field of child life.

HD 262. Marriage And Family. 3 sem. hrs.
A study of marriage and family relationships from a combination of sociological and psychological perspectives.

HD 282. Intro to Pre-K Education. 3 sem. hrs.
Course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K Initiative. An overview of development, guidance, and curriculum planning will be included. Lab participation included.

HD 302. Child Dev-Adolescence. 3 sem. hrs.
Introduction to the theory of and research on development of children ages nine to eighteen. Special attention is given to major transitions in the cognitive, social, and moral domains, as well as to psychological effects of physical maturation. Influences of the family, the schools, and peer relations on adolescent development are considered.

HD 321. Concp Creat Exper Young Child. 3 sem. hrs.
The principles underlying the selection, use, and value of experiences that appropriately foster concept development and creative expression in young children are examined. Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting.One-and-a half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205.

HD 322. Conc Creat Exper Yng Chld II. 3 sem. hrs.
Second in the sequence in which students examine the principles underlying the selection, use, and value of experiences that foster concept development and creative expression in young children.Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting. One-and-a-half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205 and HD 321.

HD 345. Addiction and the Family. 3 sem. hrs.
This course is an examination of the impact of substance abuse and addiction on the family as well as the influence of familial factors and family dynamics on addiction and the process of recovery.

HD 350. Treatment For Addictive Disorders. 3 sem. hrs.
This course will survey contemporary therapeutic approaches used to treat addictive disorders.

HD 382. Parent And Family Devt. 3 sem. hrs.
Explores the changing nature and dynamics of parent-child relationships. Implications for parent education programs and parenting strategies are included.

HD 399. Prior Learng Human Development. 1-30 sem. hr.

HD 401. Cult Influ Child Yth Fam. 3 sem. hrs.
This course is designed to understand race and ethnicity in its political, social and historical context. Since the culture in which we are raised as children and youth greatly influences our attitudes, beliefs, values and behaviors, it is important to gain an awareness of the cultural background of our own, as well as others' thoughts, feelings and acts. Writing proficiency within this discipline is required for a passing grade in this course. At the completion of this course, students should be able to recognize and appreciate the emotional and intellectual energies felt by a variety of subculture groups and be able to express this awareness through the written word.

HD 405. Policy Issues: Family and Addiction. 3 sem. hrs.
The impact of government policies on youth, adults, and families with addictions will be the focus of this course. The course will examine the intersection of addictions and crime, while exploring the policies and practices of specialty courts such as Juvenile Court, Family Court, Drug Courts and others. In addition, the students will review the current state of the family,family trends, and the implications for family policy. The varied effects that policies and programs can have on different types of families and different aspects of family functioning will be explored. The process of policy formation, implementation, evaluation and advocacy will be reviewed. Finally we will examine current economic and political forces that influence federal and state governments in development and implementation of key areas of legislation, and the impact of such policy on citizens and their families.
Prerequisite(s): None.

HD 412. Adult Development. 3 sem. hrs.
Theories of and research on social, emotional, cognitive, and physical development throughout adulthood: young adulthood, middle adult years, and older adult years. Writing proficiency within this discipline is required for a passing grade in this course.

HD 422. Admin Child Centers & Programs. 3 sem. hrs.
Children's centers and programs, including child development and child life programs, are examined and evaluated. Legislation, standards, program planning, and practical aspects of financing, administration, supervision, and management are explored. Writing proficiency within this discipline is required for a passing grade in this course.

HD 425. Adv Preschool Dev & Curriculum. 3 sem. hrs.
This course is designed for students to understand, design, implement and evaluate appropriate curricular practices for preschool children. Developmental theories and current issues in early childhood education are examined.

HD 426. Hospitalized Child Youth. 3 sem. hrs.
Examination of the theoretical basis of the psychosocial care of children, youth, and families in health care settings. The etiology of childhood illness and disease, clinical procedures, communication techniques, and research literature are studied from a developmental perspective. 45 practicum hours are required.

HD 451. Loss And Bereavement. 3 sem. hrs.
Designed to give child life students opportunities for in-depth study of issues of grief and bereavement as they impact children and families. An emphasis is placed on theories of grief resolution and applications in health care settings. The class is conducted in a seminar format with out-of-class placements.

HD 462. Interpersonal Relationships. 3 sem. hrs.
The course examines the dynamics of interpersonal interaction related to the development and maintenance of relationships. Current issues and problems are explored and related to marital and family system characteristics.

HD 472. Program Evaluation. 3 sem. hrs.
Examines the principles and methods by which programs for children and families are empirically evaluated.

HD 475. Human Sexuality Sex Education. 3 sem. hrs.
Current scientific knowledge of physiological, sociological, and psychological factors influencing sexual development and relations.

HD 480. Children And Divorce. 3 sem. hrs.
Examines the effects of divorce on children's cognitive and social-personality development.
Prerequisite(s): HD 101 or HD 262.

HD 483. Methods of Family Life Education. 3 sem. hrs.
Provides opportunities to plan, implement, and evaluate family life education programs. Standards and criteria leading to certified family life educator are overviewed. Professional responsibilities and ethics are emphasized.
Prerequisite(s): HD 382.

HD 488. Senior Seminar. 2 sem. hrs.
Examines the theory and philosophy of programs for families and children. Issues of professional identity and ethics are also discussed.

HD 491. Direct Individ Study-Hd. 1-6 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 492. Dir Ind Study Fam Rel. 1-3 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 493. Directed Research. 1-6 sem. hr.

HD 495. Early Childhood Devel Intern. 6-12 sem. hrs.
Internship experience for students in the early childhood development concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322.

HD 496. Child Life Internship. 12 sem. hrs.
Internship experience for students in the child life concentration only.2.5 GPA in HD coursework, fully executed HDFS Application for Internship form and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322 and HD 426.

HD 497. Family Studies Internship. 6-12 sem. hrs.
Internship experience for students in family studies concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor. Most internship opportunities require a 2.5 GPA.
Prerequisite(s): HD 483.

HD 498. Adolescent Youth Devel Intern. 6-12 sem. hrs.
Internship experience for students in the adolescent and youth development concentration only.2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 302.

Human Environmental Sciences (HES) Courses

HES 100. Freshman Compass Human Env Sci. 3 sem. hrs.
Designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills.

HES 103. Distance Compass HES. 3 sem. hrs.
This course is open to incoming CHES distance learning students and provides an introduction to the nature of higher education and a general orientation to the functions, resources, and activities of The University of Alabama. Students also receive an introduction to the careers within the scope of the family and consumer sciences profession.

HES 225. Mentoring. 3 sem. hrs.
Provides students who are interested in becoming one-on-one mentors for at-risk elementary and middle school students with knowledge and skills needed to be successful.

HES 250. Career Develop/Planning. 3 sem. hrs.
This elective course designed for freshmen and sophomores offers students opportunities to evaluate themselves, their abilities and interests, their personality characteristics, and their values, in order to begin forming career goals or to complete goals already set. This course will provide students with information on occupational characteristics, the career decision-making process, current issues in the career world, developing employability, job readiness, and job search techniques.

HES 275. Leadership Develop Thru Serv. 3 sem. hrs.
Encourages volunteerism as a way to develop leadership skills and a sense of responsibility to one's community as advocates for service. Students are provided with a list of nonprofit service agencies in Tuscaloosa, from which they may choose. Students may submit alternative sites for approval by the instructor. Students must provide their own transportation to the volunteer site.

HES 310. Issues Human Envir Sciences. 3 sem. hrs.
History and philosophy of human environmental sciences; present and future societal issues and their implications for the profession and professional procedures.

HES 390. Practicum Human Envir Sciences. 3-6 sem. hrs.
Provides students with an opportunity to apply classroom knowledge in a work setting appropriate with career goals.

HES 399. Prior Learning In Hes. 0-30 sem. hrs.
Prior Learning in HES.

HES 430. Managing in a High Performance Organization. 3 sem. hrs.
This course will provide an interactive exploration of management skills that enable an individual to effectively communicate, build and lead teams, delegate, make presentations and manage priorities to achieve success.

HES 450. Volunteer & Civic Respon. 1-3 sem. hr.
Study of the importance of volunteerism to nonprofit organizations. Students will gain practical experience working with one or more nonprofit organizations.

HES 452. Trends & Issues. 3 sem. hrs.
Course developed for sport professionals to gain knowledge and understanding of contemporary trends and issues in sport management.

HES 459. Management Strategies. 3 sem. hrs.
Indepth analysis for sport professionals to study and review management and leadership strategies in various sport organizations.

HES 460. Sport Management. 3 sem. hrs.
This course is designed for sport professionals desiring to increase their knowledge and understanding of management issues in their job settings and professional careers. This course will review the following issues: sport management; scope and career opportunities; organizational theory; human resource management; ethics; risk management; sport governance; managing sport facilities; marketing; sport licensing; economics; accounting and budgeting; financing sport; and tourism.

HES 485. Self-managed Mentoring. 3 sem. hrs.
This web-based course explores self-development of the individual and mentoring as a part of leadership development. Writing proficiency within this discipline is required for a passing grade in this course.

HES 490. Indiv Stdy Human Envir Science. 1-6 sem. hr.
Individual study in an area of human environmental studies.

Human Nutrition and Hospitality Management (NHM) Courses

NHM 101. Intro Human Nutrition. 3 sem. hrs.
Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

NHM 105. Personal Nutrition. 3 sem. hrs.
Discussion and application of nutrition as it relates to personal health.

NHM 195. Intro Dietetics Nutritn. 1 sem. hr.
An overview of the professions in nutrition and dietetics. Course includes guest speakers and lectures.

NHM 201. Nutrition In Life Cycle. 3 sem. hrs.
Application of principles of basic nutrition to each stage of the life cycle. Emphasis is on the relationship of nutrition to growth, development, and health.
Prerequisite(s): NHM 101.

NHM 210. Dynamics Weight Control. 3 sem. hrs.
Analysis of interaction of nutrition and exercise in weight control. Techniques for measuring energy needs, estimating body composition, applying nutrition principles to weight control, and evaluating popular diet and exercise programs.

NHM 250. Principles of Food Preparation. 3 sem. hrs.
Principles of Food Preparation as they relate to food quality and acceptability. Restricted to RHM and NHM minors.

NHM 253. Food Science. 3 sem. hrs.
Relation of food composition and structure to food preparation. One lecture, two laboratories.

NHM 305. Vegetarian Nutrition. 3 sem. hrs.
This course will provide students with an introduction to vegetarian nutrition, including background information on general nutrition. This course will also cover a vegetarian diet's role in disease prevention, courses of plant-based nutrients, vegetarian diets throughout the life cycle, food policy and how to implement vegetarian diets into different areas of dietetic practice.

NHM 315. Nutrition For Performance. 3 sem. hrs.
This course is designed to address nutrition issues related to exercise and athletic performance.
Prerequisite(s): NHM 101.

NHM 320. Food in Film. 3 sem. hrs.
This course begins as an introduction to the portrayal of food and nutrition culture in film media and goes on to explore the dynamic interaction of shifting food and nutrition values with evolving media production trends. Film media explored includes television, movies, documentaries and news.

NHM 340. Community Nutrition. 3 sem. hrs.
Nutrition assessment of individuals and groups; provision of nutrition services in the community. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 361. Nutritional Biochemistry. 3 sem. hrs.
Intermediary metabolism of carbohydrates, fat, and protein with emphasis on homeostatic regulation in health and disease.
Prerequisite(s): CH 105 or CH 231.

NHM 362. Nutrition At Cell Level. 3 sem. hrs.
Physiological and chemical basis of nutrient needs.
Prerequisite(s): NHM 361.

NHM 363. Applied Nutrition. 3 sem. hrs.
Principles of nutrition assessment, including interviewing and nutrition care plans. Application of principles to selected stages of the life cycle.
Prerequisite(s): NHM 201 and BSC 215 and BSC 216.

NHM 365. Med Nutr Therapy I. 3 sem. hrs.
Study of pathophysiology and medical nutrition therapy for specific disease conditions.
Prerequisite(s): BSC 215 and BSC 216 and NHM 361 and NHM 363.

NHM 366. Supv Pract Med Nutr Therapy I. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 365 coursework.
Prerequisite(s): NHM 365.

NHM 372. Intro Food Service Mgt. 3 sem. hrs.
Course includes theories, functions, and principles of management and tools for decision making. Offered in the fall semester.

NHM 373. Purchsg Design Risk Mgt Food S. 3 sem. hrs.
Principles, methods, and techniques used in purchasing food and equipment. Analysis of layout and design and of techniques used in evaluating work flow. Principles and techniques used in managing sanitation, safety, and security functions in food service.

NHM 374. Quant Food Prod & Servc. 3 sem. hrs.
Theory and techniques of quantity food production and service. Application of theory through hands-on experience.
Prerequisite(s): NHM 253.

NHM 390. Pract Food Service Mgt I. 3 sem. hrs.
This directed individual study is designed to bridge the gap between the student's quantity foods laboratory course and the senior food service management supervised practice. Students will be placed in commercial health-care food service operations.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 395. Intro Research Food Nutr. 1 sem. hr.
Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the American Dietetics Association Web site. Student membership in the American Dietetic Association is a requirement of this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 401. Nutrition Health Profesn. 3 sem. hrs.
Covers the practical application of principles of normal nutrition (including the nutritive value of foods) and introduces nutrition for persons with health problems. Primarily for students pursuing careers in health care.

NHM 441. Nutrition Education. 2 sem. hrs.
Focuses on developing competency in learning-system design, with special emphasis on teaching nutrition in various settings.
Prerequisite(s): NHM 101 and NHM 201.

NHM 442. Nutrition Care Process. 1 sem. hr.
Focuses on developing competency in nutrition counseling.
Prerequisite(s): NHM 101 and NHM 201
Prerequisite(s) with concurrency: NHM 363.

NHM 454. Experimental & Functional Food Science. 3 sem. hrs.
Chemical and physical properties affecting food product development. Introduction to functional foods with additional value beyond basic nutrition. Writing proficiency required for passing grade in this course. Offered in Fall and Spring semesters. Two lectures per week with labs embedded within lectures.
Prerequisite(s): NHM 101 and NHM 253 and CH 105.

NHM 457. Childhood Obesity. 3 sem. hrs.
Focuses on the physiological, genetic, environmental, and behavioral factors that predispose children and adolescents to obesity; explores the clinical and public health strategies for treatment and prevention.

NHM 464. Superv Pract Commun Nutr. 1 sem. hr.
Experiences that include nutrition assessment and counseling and delivery of nutrition services in the community.

NHM 465. Medical Nutrition Therapy II. 3 sem. hrs.
Continuation of NHM 365. Basic principles of enteral and parenteral nutrition support, as well as advanced medical nutrition therapy for critical care.
Prerequisite(s): NHM 365.

NHM 466. Sup Pract Med Nutr Therapy II. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 465 coursework.

NHM 467. Supervised Practice in Long-term Care. 3 sem. hrs.
Supervised clinical dietetics experience in the long-term care setting.
Prerequisite(s): NHM 365 and NHM 366 and NHM 465 and NHM 566.

NHM 468. Practicum Nutrition Food Servi. 1-5 sem. hr.
Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM 475. Mgt Food Service Systems. 3 sem. hrs.
Through lectures and class discussions, the theory, functions, and principles of management are applied. Emphasis is on personnel and financial management, problem solving, decision making, and systems analysis.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 476. Pract Food Serv Mgt II. 2 sem. hrs.
Supervised practice in an institutional food service setting applying NHM 475 coursework.

NHM 485. Sup Prac in Dic Mgmt. 3 sem. hrs.
Conduct a research project using appropriate research methods, ethical procedures and statistical analysis to culminate in the execution of a program for a target population. Develop and implement a curriculum, adhere to budget constraints and implement a marketing plan, utilizing web based messages and social media.
Prerequisite(s): NHM 366 and NHM 390 and NHM 464 and NHM 466.

NHM 490. Directed Individual Study. 1-6 sem. hr.
Individual study in nutrition or food service management.

NHM 491. Directed Professional Study. 3 sem. hrs.
Individual professional study in management, clinical, or community dietetics. Requirement of 160 clock hours spent in assigned site. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): NHM 365.

NHM 492. Prepare Dietetic Internship. 1 sem. hr.
To provide students in the DPD program who are seeking a Verification Satement with the knowledge to be successful in applying for a dietetic internship upon graduation.

NHM 499. Undergraduate Research. 1-6 sem. hr.
Under faculty supervision, the student designs an investigation; collects and analyzes data; and prepares a written report and seminar on the research project.

Restaurant, Hotel and Meetings Management (RHM) Courses

RHM 105. Nutrition for Hospitality Man. 3 sem. hrs.
Lecture and discussion introducing students to nutrition principles to evaluate and modify menus and recipes, as well as respond knowledgably to customers questions and needs.
Prerequisite(s): RHM 175.

RHM 175. Intro Hotel Restaurant Hosp Mg. 3 sem. hrs.
Introduction to the theory, functions, and principles of management in the restaurant, food service, and lodging industry. Examination of basic operational systems and problems related to the industry.

RHM 180. Effective Hospitality Communcn. 1 sem. hr.

RHM 185. Intro Meetings Events Ind. 3 sem. hrs.
Introduction to the structure, stakeholders and principles of management in the meetings and events industry. Examination of basic planning and production elements for meetings and events.

RHM 241. Mgt Of Food/Beverage Operation. 3 sem. hrs.
Course focuses on how to profitably manage a food service operation in order to satisfy guests. Students learn how to give guests the highest priority as the details of food and beverage operations are planned, implemented, and evaluated.

RHM 251. Hospitality Employee Suprv/Mgt. 3 sem. hrs.
Focuses on information managers need in order to recruit, select, and train employees; increase productivity; control labor costs; effectively communicate; manage conflict and change; and use time management techniques.

RHM 284. International Food Safety. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety and security functions in food service operations. Explore food safety issues like nanotechnology, emerging packagin, irradiation, food recalls, international food safety, food terrorism and genetically modified foods.
Prerequisite(s): RHM 175.

RHM 285. Food Safety And Risk Managemen. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety, and security functions in food service and lodging operations. Outlines sanitation and risk management programs that help hospitality operations provide quality products and services, comply with regulations, and improve the bottom line.

RHM 286. Prof Develp Hospitality Manage. 1-3 sem. hr.
Provides students with new and diverse experiences to increase their understanding of the restaurant, hotel and meetings management program. Class discussions, assigned readings, lectures, tours, and presentations by RHM faculty.

RHM 290. Food and Beverage Trends. 3 sem. hrs.
ServSafe Alcohol Certification course and tests are administered. Students are exposed to food and beverage trends at the Annual National Restaurant Association Show.
Prerequisite(s): RHM 175.

RHM 300. Event Plan Wedding Coordinator. 3 sem. hrs.
This course reviews the interdependent functions of event planning for weddings. Students will learn about the decisions, problems and concerns of planning effective wedding events. They will design, plan and execute a wedding from start to finish.

RHM 303. Mgn Quality In Hosp Industry. 3 sem. hrs.
Designed to acquaint students with quality and leadership issues facing today's hospitality industry. Students learn the principles of the Malcolm Baldridge National Quality Award, the concepts of continuous improvement, quality service, power and empowerment, communication skills, goal setting, teams, diversity, and managing organizational change. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 313. Contemporary Club Management. 3 sem. hrs.
Introduces students to the unique world of private club management. Focus on issues club managers face on a daily basis.

RHM 321. Tourism & Hospitality Industry. 3 sem. hrs.
Explores the broad range of factors that influence and affect tourism. Includes research and marketing methods.

RHM 322. Cruise Tourism. 3 sem. hrs.
Exploration & evaluation of the North American Cruise Industry to incude vacation cruising, economics, life aboard for passengers and crew, analysis of marketing campaigns and internet resources.
Prerequisite(s): RHM 175.

RHM 325. Lodging Operations & Managemnt. 3 sem. hrs.
Systematic approach to front-office and housekeeping management procedures. Emphasis is on reservations, billing and collection, housekeeping, and maintenance operations.
Prerequisite(s): RHM 175.

RHM 332. Front Office Management. 3 sem. hrs.
Introduces concepts of front-office management that affect other operating departments. Discusses techniques in managing the front office to ensure operational goals are attained.

RHM 345. Operations Mgt Gaming Ind. 3 sem. hrs.
RHM 175 or permission of instructor This course is designed to increase the understanding of the casino industry through visits to casino operations, hotels, and restaurants located with casinos. The course includes class discussions, assigned readings, lecture tours, and presentations by leading casino executives.
Prerequisite(s): RHM 175.

RHM 355. Hospitality Industry Training. 3 sem. hrs.
Student learns how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help the hospitality organization attain its operational goals and objectives.

RHM 356. Human Resources Management. 3 sem. hrs.
Explains how to meet the requirements of various labor laws, to include the Americans with Disabilities Act (ADA), as well as other employment and workplace laws. Explores strategies for attracting a wide range of applicants, minimizing turnover, and reducing productivity losses.

RHM 370. Event Marketing. 3 sem. hrs.
Students learn how to market to the Event Target Audience; anticipate client needs; and understand the event business and its unique value position and differentiation.
Prerequisite(s): RHM 175.

RHM 375. Managing Catering Operations. 3 sem. hrs.
Theory and techniques of professional catering with hands-on activities involved with the planning, organizing, and implementation of special catered events.

RHM 377. Restaurant Management & Servic. 3 sem. hrs.
Principles and methods of producing and serving quality food in restaurants. Writing proficiency is required for a passing grade in this course. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 380. Convention Trade Show Manageme. 3 sem. hrs.
A comprehensive analysis of trade shows. Emphasis is on organizing, arranging, and operating trade shows and conventions. Visits to trade shows are required.

RHM 385. Event Lead. Prog, Prob Solving. 4 sem. hrs.
Students gain knowledge, skills and experience in planning, executing, evaluating and problem solving with a variety of events on the UA campus. Students work with a minimum 10 hours per week with the University Union.

RHM 387. Hotel/Motel Security Managemen. 3 sem. hrs.
Exploration of security issues, concerns and practices affecting hospitality properties. Covers the physical security of the property asset protection, guest protection, security equipment, emergency management and procedures, and OSHA requirements.

RHM 390. Great Hotels of AL. 3 sem. hrs.
Students increase their understanding of the hotel industry through visits to Great Hotels in Alabama. Course includes class discussion, lecture tours, and presentations by leading hotel executives.

RHM 399. Prior Learning Restaur Hosp Mg. 1-30 sem. hr.

RHM 420. Hospitality Marketing. 3 sem. hrs.
Students learn how to create a sales team with creative, successful sales and marketing programs. Includes discussion on ways to sell rooms and food and beverage services to business and leisure travelers, travel agents, and meeting planners. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): RHM 175.

RHM 421. Hospitality Law. 3 sem. hrs.
Students gain an understanding of potential legal problems and how important legal considerations can affect the hospitality industry. Legal cases related to the hospitality industry are explored.

RHM 425. Risk Management for Meetings & Events. 3 sem. hrs.
A study of risk, crisis, and liability issues that may arise in the planning and management of meetings and events. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): RHM 175 or RHM 185.

RHM 446. Hospitality Purchasing. 3 sem. hrs.
Students learn how to purchase major commodities and nonfood supplies, ensuring price and product quality. Course explains how to deal effectively with suppliers and includes the managerial aspects of purchasing.

RHM 448. Bar And Beverage Management. 3 sem. hrs.
Discussion on strategies to profitably manage the bar and beverage department of the hospitality operation. Covers control systems, hiring and training, responsible alcohol service, and essential information on a wide range of beverage products.

RHM 450. Issues Hotel & Lodg. Mgmt. 3 sem. hrs.
Prerequisite(s): RHM 175.

RHM 465. Food And Beverage Controls. 3 sem. hrs.

RHM 468. Practicum In Hospitality Mgt. 1-2 sem. hr.
Students explore a variety of issues of importance to the effective management of hospitality organizations. Topics vary according to needs of students and issues facing the hospitality industry.

RHM 469. Internship Hospitality Managem. 1 sem. hr.
A semester of work experience in an approved hospitality organization for a minimum of 600 hours. Students work full-time during the semester to gain insight into hospitality management responsibilities.
Prerequisite(s): RHM 175.

RHM 474. Mangr Acct Hospitality Industr. 3 sem. hrs.
Students learn how to make effective managerial, business, and operational decisions based on a thorough understanding of financial statements; identify costs; develop realistic budgets; forecast; and plan cash flow.
Prerequisite(s): RHM 175 and AC 210.

RHM 478. Mgt Service Food Bev Operation. 3 sem. hrs.
Explores requirements in planning for and managing different types of food and beverage operations.

RHM 479. Convention Management & Servic. 3 sem. hrs.
An exploration of techniques used to increase a hospitality property's convention and meeting business through marketing and service. Students learn how to address meeting planners' needs and concerns confidentially, creatively and effectively.

RHM 480. Adv Meeting & Convention Mgt. 3 sem. hrs.
Reviews the interdependent functions of meetings and convention management. The student develops and executes a professional meeting.

RHM 485. Foundations Seminar. 3 sem. hrs.
Seminar designed for students accepted in the executive restaurant and hospitality management (ExRHM) program.

RHM 488. Individual Seminar Projects. 3-12 sem. hrs.
Individual projects designed by students to implement concepts and strategies learned in executive seminars. Project plans must be approved by RHM faculty prior to implementation.

RHM 490. Directed Individual Study. 1-6 sem. hr.

RHM 495. Capstone Senior Project. 12 sem. hrs.
A required major learning experience for ExRHM students. Project is designed by the student to include research, analysis, and synthesis of a particular topic related to hospitality industry operations. Project must be approved by RHM faculty prior to implementation.
Prerequisite(s): RHM 485.

RHM 496. RHM Senior Capstone Seminar. 1 sem. hr.
Discussion of current issues in the hotel, restaurant, and convention industries.
Prerequisite(s): RHM 175.

Department of Clothing, Textiles and Interior Design

Clothing, Textiles and Interior Design offers two academic majors:

- Interior Design (INTD)
- Apparel and Textiles (AT)

The Clothing and Textiles (AT) major offers two concentrations:

- Fashion Retail
- Apparel Design

Students in both AT concentrations must take:

- 21 hours of common courses **plus**
- 39 hours of coursework for apparel design **or**
- 42 or 43 hours of coursework for fashion retailing

Apparel and Textiles Major (AT)

307 Doster Hall

Apparel and Textiles provides career preparation for students interested in merchandising, management, design and production careers in retailing and/or the textile and apparel industry. Apparel and Textiles is also appropriate for students who are interested in pursuing a wide variety of entrepreneurial opportunities in fashion retailing, textiles and/or apparel.

Required courses for all AT majors

		Hours
CTD 102	Applied Design	3
CTD 261	Textiles	3
CTD 281	Fashion Retailing I	3
CTD 447	Text Apparl Intnat Trade	3
CTD 448 or	History Of Costume	3
CTD 415	History Textile Design	
EC 110	Principles of Microeconomics	3
MKT 300	Marketing	3
Total Hours		21

Apparel Design Concentration for CT Majors

The concentration in apparel design is planned for students interested in preparing for design, production and management careers in the textile and apparel industry. Students may enhance their career preparation by choosing coursework from such areas as art, business and communication, and by completing an internship in textile/apparel production or design. Accreditation by the National Association of Schools of Art and Design was awarded in 2008.

All students interested in transferring into the apparel design concentration at The University of Alabama should contact the Department of Clothing, Textiles, and Interior Design one year prior to enrollment, if possible, to verify transfer credits and plan for a required portfolio review.

Transcripts, student work, project assignments and course syllabi are required at the time of the portfolio review. CTD 241 Apparel Construction is a prerequisite for CTD 245, which is offered spring semester only. CTD 245 Apparel Production, CTD 349 Compt-Aid Apparel Design, CTD 350 Flat Pattern Design, CTD 351 Apparel Des Thru Drpng and CTD 450 Advanced Apparel Design are not offered in summer school and must be completed in that sequence. Each student will be assigned an academic adviser who will help develop the plan of study.

Required Courses for Apparel Design Concentration

		Hours
ART 110	Drawing I	3
CTD 217	Fashion Illustration	3
CTD 241	Apparel Construction	3
CTD 245	Apparel Production	3

CTD 319	Textile Design	3
CTD 320	Visual Merchandising	3
CTD 349	Compt-Aid Apparel Design	3
CTD 350	Flat Pattern Design	3
CTD 351	Apparel Des Thru Drpng	3
CTD 446	Cult Dynam Apparel Text	3
CTD 450	Advanced Apparel Design	3
CTD 461	Qual Contr Textile Prod	3
Art history (FA)		6
Total Hours		42

Sample Curriculum for the Clothing and Textiles Major with an Apparel Design Concentration

Freshman Year

ART 110	Drawing I	3
CTD 102	Applied Design	3
CTD 241	Apparel Construction	3
CTD 261	Textiles	3
EN 101	English Composition	3
EN 102 or	English Composition	3
EN 103	Advanced English Composition	
HES 100	Freshman Compass Human Env Sci	3
History[1] (HI) and social and behavioral sciences (SB)		6
Mathematics (MA)		3
Total Hours		30

Sophomore Year

CTD 217	Fashion Illustration	3
CTD 245	Apparel Production	3
CTD 319	Textile Design	3
CTD 281	Fashion Retailing I	3
Art history (FA)		6
EC 110	Principles of Microeconomics	3
Humanities2 (HU) and fine arts (FA)		6
Natural science (N)		4
Sophomore portfolio review		
Total Hours		31

Junior Year

Junior Year		
CTD 320 or	Visual Merchandising	3
CTD 446	Cult Dynam Apparel Text	
CTD 349	Compt-Aid Apparel Design	3
CTD 350	Flat Pattern Design	3
CTD 351	Apparel Des Thru Drpng	3
CTD 448 or	History Of Costume	3
CTD 415	History Textile Design	
CTD 461	Qual Contr Textile Prod	3
Computer science (C) or foreign language (FL)		6-8
Writing course (W)		3
Junior portfolio review		
Total Hours		27-29

Senior Year

CTD 447	Text Apparl Intnat Trade	3
CTD 450	Advanced Apparel Design	3
HES 310	Issues Human Envir Sciences	3
MKT 300	Marketing	3
Electives		11-13
History (H) and social and behavioral sciences (SB)		3
Natural science (N)		4
Senior portfolio review		
Total Hours		30-32

1 Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.

2 Each student who completes a 6-hour history sequence must take a 3-hour literature course.

Fashion Merchandising for AT Majors

The fashion retailing concentration is planned for students interested in preparing for merchandising and management careers in retailing and related fashion fields. Supervised internships are offered during the senior year for students who have successfully completed 86 semester hours. The 86 hours must include the following group of professional courses completed with a grade point average of at least 2.5 prior to enrollment in:

CTD 461	Qual Contr Textile Prod	3
CTD 481	Fashion Retailing II	3
CTD 485	Intern Fashion Retailing	6
CTD 102	Applied Design	3
CTD 231	Sewn Products Analysis	3
CTD 261	Textiles	3
CTD 281	Fashion Retailing I	3
CTD 320	Visual Merchandising	3
CTD 381	Fashion Retailing Seminar	3
CTD 447	Text Apparl Intnat Trade	3
MKT 300	Marketing	3
MKT 321	Retail Management	3
MKT 313	Consumer Behavior	3
MKT 337	Personal Selling	3
MKT 444	Promotional Management	3
MKT 410	Managing Innovation	3
EC 110	Principles of Microeconomics	3
EC 111	Principles of Macroeconomics	3
ST 260	Statistical Data Analysis	3
Accounting		

The fashion retailing internship is an approved work experience completed during the entire fall semester of the student's senior year. The internship must be a full-time experience, with the student working an average of 40 hours per week. Students will not be required to come to campus that semester. In addition to the internship, students are required to be concurrently enrolled in a special online section of HES 310 Issues Human Envir Sciences.

Required Courses for Fashion Retailing Concentration

		Hours
CTD 231	Sewn Products Analysis	3
CTD 320	Visual Merchandising	3
CTD 381	Fashion Retailing Seminar	3
CTD 446	Cult Dynam Apparel Text	3
CTD 461	Qual Contr Textile Prod	3
CTD 481	Fashion Retailing II	3
CTD 485	Intern Fashion Retailing	6
MGT 300	Org Theory & Behavior	3
Select one of the following:		3
MKT 313	Consumer Behavior	
MKT 337	Personal Selling	
MKT 444	Promotional Management	
MKT 410	Managing Innovation	
MKT 321	Retail Management	3
Select one of the following:		3
IBA 455	Global Marketing	3
MGT 301	Intro Human Resource Mgt	
MGT 341	Business Ethics	
MGT 320	Leadership	3
ST 260 or	Statistical Data Analysis	3
EC 111	Principles of Macroeconomics	

Principles of accounting	3-4
Total Hours	48-49

Sample Curriculum for the Clothing and Textiles Major with a Fashion Retailing Concentration

Freshman Year

CTD 102	Applied Design	3
CTD 261	Textiles	3
EN 101	English Composition	3
EN 102 or	English Composition	3
EN 103	Advanced English Composition	
HES 100	Freshman Compass Human Env Sci	3
Humanities2 (HU) or fine arts (FA)		6
History[1] (HI) and social and behavioral sciences (SB)		6
Mathematics (MA)		3
Total Hours		30

Sophomore Year

CTD 231	Sewn Products Analysis	3
CTD 281	Fashion Retailing I	3
EC 110	Principles of Microeconomics	3
ST 260 or	Statistical Data Analysis	3
EC 111	Principles of Macroeconomics	
Accounting[3]		3-4
Computer science (C) or foreign language (FL)		6-8
Humanities (HU) and fine arts (FA)		3
History (HI) or social and behavioral sciences (SB)		3
Natural science (N)		4
Total Hours		31-34

Junior Year

CTD 320	Visual Merchandising	3
CTD 381	Fashion Retailing Seminar	3
CTD 446	Cult Dynam Apparel Text	3
CTD 447	Text Apparl Intnat Trade	3
CTD 415 or	History Textile Design	3
CTD 448	History Of Costume	
CTD 448 or	History Of Costume	3
CTD 415	History Textile Design	
HES 310	Issues Human Envir Sciences	3
MGT 300	Org Theory & Behavior	3
MKT 300	Marketing	3
Select one of the following:		3
MKT 313	Consumer Behavior	
MKT 337	Personal Selling	
MKT 444	Promotional Management	
MKT 410	Managing Innovation	
MKT 321	Retail Management	3
Total Hours		33

Senior Year

CTD 461	Qual Contr Textile Prod	3
CTD 481	Fashion Retailing II	3
CTD 485	Intern Fashion Retailing	6
Select one of the following:		3
IBA 455	Global Marketing	3
MGT 301	Intro Human Resource Mgt	
MGT 341	Business Ethics	
MGT 320	Leadership	
Electives		1-4
Humanities (HU) and fine arts (FA)		3
Natural science (N)		4
Writing course (W)		3
Total Hours		29-32

1 Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.

2 Each student who completes a 6-hour history sequence must take a 3-hour literature course.

3 A four-hour accounting course is required for the general business minor.

Interior Design Major (INTD)

The program in interior design prepares students for professional careers in residential and nonresidential interior design. Career opportunities include employment with interior design studios, interior design divisions of architectural firms, retail establishments, corporate design departments, as well as independent business ownership. The coursework prepares students to become entry level professionals qualified to sit for the NCIDQ and become registered interior designers. The interior design program received six-year accreditation from the Council for Interior Design Accreditation in 2010. Accreditation by the National Association of Schools of Art and Design (NASAD) was awarded in 2008.

Transfers

All students interested in transferring into the interior design program at The University of Alabama should contact the Department of Clothing, Textiles and Interior Design at least one year prior to enrollment, if possible, to verify transfer credits and plan for a required portfolio review. Transcripts, student work, project assignments and course syllabi are required at the time of the portfolio review.

CTD 121 Intro Interior Design is a prerequisite for CTD 225 Residnt Des/Graphic Comm, the first official studio class, which is offered fall semesters only. Transfer students who do not have credit for CTD 121 Intro Interior Design (or the equivalent) are urged to complete the course during summer school in order to take CTD 225 Residnt Des/Graphic Comm the first fall semester of enrollment.

Course Sequencing

As well as CTD 225 Residnt Des/Graphic Comm, CTD 226 Nonresidential Design, CTD 325 Design For Special Populations, CTD 326 Design For Hospitality Interio, CTD 425 Advanced Residential Design and CTD 426 Advanced Nonresidential Design are not offered in summer school and must be taken in the above sequence. **Studio/Lab courses are open only to interior design majors.** Each student will be assigned an academic adviser who will help develop a plan of study.

Required Courses

		Hours
ART 110	Drawing I	3
ART 131	Design II	3
CTD 102	Applied Design	3
CTD 121	Intro Interior Design	3
Select two Studio Arts from the following:		6
CTD 215	Introduction to Rendering	
CTD 255	Comp Appl for Interior Design (C)	
CTD 301	I. D. New York Study Tour	
CTD 319	Textile Design	
CTD 340	Portfolio Development	
CTD 353	Language of Design	
CTD 355	Global Influences on Design	
CTD 427	Advanced Computer Applications in Design (C)	
CTD 221	Matl Source Int Design	3
CTD 225	Residnt Des/Graphic Comm	3
CTD 226	Nonresidential Design	3
CTD 261	Textiles	3
CTD 321	History of Interiors I (History of Interiors I)	3
CTD 325	Design For Special Populations	3
CTD 326	Design For Hospitality Interio	3
CTD 328	Prof Proced Interior Des	3
CTD 371	Lighting For Interiors	3
CTD 422	History Of Interiors II (W)	3
CTD 425	Advanced Residential Design	4
CTD 426	Advanced Nonresidential Design	4
DR 135	Construction Drawing	3
DR 250	Construction Materials & Proc	3

DR 355	Auto Cad Interior Design	3
Art History (FA)		6
Total Hours		71

Sample Curriculum for the Interior Design Major

Freshman Year

ART 110	Drawing I	3
CTD 102	Applied Design	3
CTD 121	Intro Interior Design	3
DR 135	Construction Drawing	3
EN 101	English Composition	3
EN 102 or	English Composition	3
EN 103	Advanced English Composition	
HES 100	Freshman Compass Human Env Sci	3
History[1] (HI) and social and behavioral sciences (SB)		6
Natural science (N)		4
Total Hours		31

Sophomore Year

		Hours
Studio Art		3
CTD 221	Matl Source Int Design	3
CTD 225	Residnt Des/Graphic Comm	3
CTD 226	Nonresidential Design	3
CTD 261	Textiles	3
DR 250	Construction Materials & Proc	3
Art history (FA)		6
History (HI) and social and behavioral sciences (SB)		3
Mathematics (MA)		3
Total Hours		30

Junior Year

ART 131	Design II	3
CTD 323	Interior Design Internship Sem [3]	1
CTD 326	Design For Hospitality Interio	3
CTD 328	Prof Proced Interior Des	3
CTD 371	Lighting For Interiors	3
CTD 321	History of Interiors I	3
CTD 422	History Of Interiors II	3
DR 355	Auto Cad Interior Design	3
HES 310	Issues Human Envir Sciences	3
Computer science (C) or foreign language (FL)		3-4
Portfolio review		
Total Hours		28-29

Summer

CTD 423	Intern Interior Design [3]	3
Total Hours		3

Senior Year

CTD 425	Advanced Residential Design	4
CTD 426	Advanced Nonresidential Design	4
Computer science (C) or foreign language (FL)		3-4
Electives		1-3
History (HI)[2] and social and behavioral sciences (SB)		3
Humanities (HU) and fine arts (FA)		6
Natural science (N)		4
Portfolio review		
Studio art elective		3
Writing course (W)		3
Total Hours		31-34

1 Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.

2 Each student who completes a 6-hour history sequence must take a 3-hour literature course.

3 Not required for completion of major. Interior design majors who plan to enroll in CTD 423 Intern Interior Design in the summer must register for CTD 323 Interior Design Internship Sem the preceding spring semester.

Faculty

Interim Chair

Foster, Shirley P.

Instructors

Davis, Babs

Faulkner, Cassandra M.

Lee, Michelle

Robinson, Paula H.

Taylor, Brian

Assistant Professor

Foster, Shirley P.

Kissinger, Beverly A.

Maki, Kristin

Peaslee, John E.

Sickler, Stephanie

Tong, Michelle

Wimberley, Virgina S.

Associate Professor

Koontz, Marcy L.

Thompson, Amanda

Professors emeriti

Burton, Doris Plagge

Callis, Carolyn

Darden, Leatha

James, Dennis C.

Luck, Cynthia M.

Parker, Sue M.

Roper, Lydia

Adjuncts

Charles Ian Crawford

Hunter Galloway

Carol Kendrick

Silke Suhr

Office Staff

Donna McGee

Courses

CTD 102. Applied Design. 3 sem. hrs.
Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD 121. Intro Interior Design. 3 sem. hrs.
Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two laboratory one lecture
Prerequisite(s) with concurrency: DR 135.

CTD 215. Introduction to Rendering. 3 sem. hrs.
An introduction to achromatic and contemporary color graphics media used in sketching, rendering and design drawings, with emphasis on schematics used in problem solving and rapid rendering techniques for interior delineation.
Prerequisite(s): CTD 121.

CTD 216. Beginning Weaving. 3 sem. hrs.
Study of original design in loom weaving techniques; dressing the loom; drafting designs; and weaving and finishing procedures. Offered irregularly. Two laboratories.

CTD 217. Fashion Illustration. 3 sem. hrs.
Emphasis is on the development of the fashion figure, design details, fabric rendering, flats, customer profile analysis, and collection development. In addition, students using advanced computer design software, create original digital design layouts of their work. Two lectures, one laboratory.
Prerequisite(s): CTD 102 and ART 110.

CTD 221. Matl Source Int Design. 3 sem. hrs.
Study of manufacturers' products for residential and nonresidential interior design; construction materials, finishes, furniture and furnishings. Offered in the fall semester.

CTD 225. Residnt Des/Graphic Comm. 3 sem. hrs.
Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of programming, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 121 DR 135 or Permission of Instructor
Prerequisite(s) with concurrency: DR 135 and CTD 121.

CTD 226. Nonresidential Design. 3 sem. hrs.
Fundamentals of nonresidential interior design with emphasis on presentation graphics. Exploration of programming, spatial organization, and codes and standards for the business environment. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 225.

CTD 231. Sewn Products Analysis. 3 sem. hrs.
Structural analysis of textile products for apparel and household use. Focus on products, standards, specifications, and relationships among performance, quality, and price.
Prerequisite(s): CTD 261.

CTD 241. Apparel Construction. 3 sem. hrs.
Introduction to apparel producer-retailer relationships. Emphasis on quality control and time management in meeting apparel specifications through application of apparel construction, fitting, and pattern alteration principles. Two laboratories.

CTD 245. Apparel Production. 3 sem. hrs.
Team approach to apparel product development including market research, design concepts, garment specification writing, sourcing, costing, production, quality control, and promotional materials. Offered in the spring semester. Two laboratories.

CTD 250. Construction Procedures for Interior Design. 3 sem. hrs.
Building construction for interior designers with emphasis on architectural procedures and systems including electrical, plumbing, lightning, acoustical, and thermal control. Includes introduction to Revit software
Prerequisite(s): CTD 226.

CTD 255. Comp Appl for Interior Design. 3 sem. hrs.
This course will provide students with a basic understanding of computer software applications and project documentation commonly used in interior design. Software introduced includes: Photoshop, InDesign, Sketchup, and 3D Studio Max. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CTD 226 CS 102.

CTD 261. Textiles. 3 sem. hrs.
Characteristics of the textile industry, fibers, yarns, fabric construction, and finishes. Selection, care, and performance characteristics.

CTD 281. Fashion Retailing I. 3 sem. hrs.
Organization, promotion methods, and interrelationship of the textiles, apparel, and retailing industries. Includes consumer demand and diffusion of fashion. Offered in the fall semester.

CTD 300. New York Study Tour. 3 sem. hrs.

CTD 301. I. D. New York Study Tour. 3 sem. hrs.

CTD 312. Advanced Computer Applications. 3 sem. hrs.
This course will provide students with an advanced understanding of computer software applications and project documentation commonly used in interior design. The skills are presented in a format that emphasizes use of the computer as a creative tool. Computer Software used in class: Photoshop and Revit. Extensive use of the computer is a condition for passing the class.

CTD 319. Textile Design. 3 sem. hrs.
Using the latest computerized design systems, students create original designs, repeats, colorways, and coordinates targeting specific markets. Emphasis is on the creative use of advanced software, awareness of industry trends and the development of an original portfolio of digitally produced designs.
Prerequisite(s): CTD 102.

CTD 320. Visual Merchandising. 3 sem. hrs.
Introduces contemporary display techniques, equipment, and materials for designing three-dimensional product presentations within the retail environment. Using advanced computer software, students create and execute original visual programs and storewide promotions. Two lectures, one laboratory.
Prerequisite(s): CTD 102.

CTD 321. History of Interiors I. 3 sem. hrs.
Study of the furnishings, interior treatments, and lifespaces characteristic f selected styles up to 1790. Offered in the Fall semester
Prerequisite(s): CTD 226.

CTD 323. Interior Design Internship Sem. 1 sem. hr.
Exploration of internship possibilities and requirements, development of job-search skills and internship placement.
Prerequisite(s): CTD 226.

CTD 325. Design For Special Populations. 3 sem. hrs.
Design of interior environments for persons with special needs such as health care, rehabilitation, education, and congregate-care interiors. Cabinet and millwork design. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 226.

CTD 326. Design For Hospitality Interio. 3 sem. hrs.
Planning and design of interior spaces; project management; design and specification of interior architectural materials and furnishings. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 325.

CTD 328. Prof Proced Interior Des. 3 sem. hrs.
Philosophy and organization of professional practice; studio management, contracts, budgets, specifications, and professional organizations. Offered in the spring semester.

CTD 330. Autocad for Interior Design. 3 sem. hrs.
Principles, terminology, command sequencing and execution, and equipment use for computer-aided design applications within the field of interior design. Review of basic commands with emphasis on intermediate and advanced applications.
Prerequisite(s): CS 102.

CTD 335. Interior Design Media. 3 sem. hrs.
Emphasis is on developing rendering techniques and improving some portfolio pieces as time allows. Freehand perspective methods will be demonstrated, practiced, and applied.

CTD 340. Portfolio Development. 3 sem. hrs.
Dedicated to the study and completion of a student portfolio.

CTD 341. Italian Fashion. 3 sem. hrs.
Students travel to italy to research and experience the influence of culture on the fashion industry.
Prerequisite(s): CTD 281.

CTD 349. Compt-Aid Apparel Design. 3 sem. hrs.
Application of computer technology to fashion illustration, apparel design, marker making, pattern making, and pattern grading. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 350. Flat Pattern Design. 3 sem. hrs.
Principles and procedures governing development and use of master patterns. Application of flat pattern principles to the execution of original designs. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 245.

CTD 351. Apparel Des Thru Drpng. 3 sem. hrs.
Techniques of draping on a dress form are applied in the execution of original designs. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 353. Language of Design. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EN 101 and EN 102; or EN 103 and CTD 121.

CTD 355. Global Influences on Design. 3 sem. hrs.
Prerequisite(s): CTD 121.

CTD 371. Lighting For Interiors. 3 sem. hrs.
Integration of the theory, techniques, and art of lighting design; principles, terminology, and equipment used in light distribution systems in the interior environment. Two lectures, one laboratory.
Prerequisite(s): CTD 226 and DR 250 and DR 135.

CTD 381. Fashion Retailing Seminar. 3 sem. hrs.
Focus on professional development and profit analysis. Exploration of internship possibilities and requirements, development of job-search skills, and internship placement. Enrollment open to students applying for fashion retailing internships. Offered in the spring semester.

CTD 387. Fashion Marketing. 3 sem. hrs.
It is the purpose of the this course to provide retailing and fashion design students with a marketing course that focuses on the fashion industry. Course Description - Apply the four Ps of the marketing concept - Price, Product, Promotion and Place - to the fashion industry, including branding, promotion, internaional marketing, and consumer behavior as related to the fashion industry.
Prerequisite(s): CTD 281.

CTD 415. History Textile Design. 3 sem. hrs.
Study of the history of textiles emphasizing the influence of cultural factors. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 422. History Of Interiors II. 3 sem. hrs.
Study of research methods and design theories utilizing historical knowledge from CTD 321. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 423. Intern Interior Design. 3 sem. hrs.
Experience in interior design or related business under supervision of advisor and the business management. Offered during the summer session.

CTD 425. Advanced Residential Design. 4 sem. hrs.
Problems in design of the home environment; individual and group problem solving. Emphasis is on historic preservation principles and practices for interior designers. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 326.

CTD 426. Advanced Nonresidential Design. 4 sem. hrs.
Problems in design of business and professional interiors; construction drawings using computer-assisted design; individual and group problem solving. Requires senior thesis. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 425.

CTD 427. Advanced Computer Applications in Design. 3 sem. hrs.
This course will provide students with an overview of computer software applications and project documentation commonly used in design. The course will provide an overview and introduction to Revit and 3d studio max.
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 446. Cult Dynam Apparel Text. 3 sem. hrs.
Impact of cultural dynamics on apparel and textile production and marketing. Offered in the spring semester.

CTD 447. Text Apparl Intnat Trade. 3 sem. hrs.
Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 or EC 111; and CTD 281.

CTD 448. History Of Costume. 3 sem. hrs.
Costume development from prehistoric to modern times. Study of cultural forces in relation to the evolution of costume. Offered in the fall semester.

CTD 450. Advanced Apparel Design. 3 sem. hrs.
Synthesis and application of design theories; procedures and processes used in the apparel industry. Development of portfolio of original design work is required. Two laboratories. Offered in the fall semester.
Prerequisite(s): CTD 350 and CTD 351.

CTD 455. Advanced Computer Applications In Design. 3 sem. hrs.
The course will provide students with an overview of computer software applications and project documentation commonly used in design. The Course will provide an overview and introduction to Revit and 3d studio max. The Skills are presented in a format that emphasizes use of the computer as a creative tool. Students will develop a mastery of the programs in subsequent courses Extensive use of the computer is a condition for passing this course.3
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 461. Qual Contr Textile Prod. 3 sem. hrs.
Use of standard laboratory test methods and computerized statistical data analysis to evaluate the quality of textile products. Block course. Offered in the fall semester.
Prerequisite(s): CTD 261.

CTD 481. Fashion Retailing II. 3 sem. hrs.
Merchandise planning and control; techniques of merchandising, including unit and dollar assortment planning, inventory control, and procurement. Block course. Offered in the fall semester.
Prerequisite(s): CTD 381.

CTD 485. Intern Fashion Retailing. 6 sem. hrs.
To participate, students must make application to the department by the first day of classes during the spring semester of the junior year. A grade point average of 2.50 or higher is required for the professional courses specified under "Fashion Retailing Concentration for AT Majors" in this catalog. The course involves supervised work experience in a business related to the major field of study.
Prerequisite(s): CTD 381.

CTD 498. Directed Indiv Studies. 1-6 sem. hr.
Independent Study.

CTD 499. Directed Indiv Studies. 1-6 sem. hr.

Department of Consumer Sciences

The consumer sciences curriculum allows students to select a concentration of courses in either consumer affairs or family financial planning and counseling, depending on the student's career goals. Each student will work with a department adviser to plan the appropriate courses.

The concentration in family financial planning and counseling has been registered with the Certified Financial Planner Board of Standards, Inc. Students who successfully complete the concentration are eligible to sit for the CFP® Certification Examination that leads to the professional designation of Certified Financial Planner™, CFP® certificant.

Certified Financial Planner Board of Standards Inc. owns the marks CFP®, Certified Financial Planner™ and CFP (with flame logo)®, which it awards to individuals who successfully complete initial and ongoing certification requirements. These marks are awarded to individuals who successfully complete the CFP Board's initial and ongoing certification requirements. The University of Alabama does not certify individuals to use the CFP®, Certified Financial Planner™ and CFP (with flame logo)® certification marks. CFP certification is granted only by the Certified Financial Planner Board of Standards, Inc., to those persons who, in addition to completing an educational requirement such as this CFP Board Registered Program, have met ethics, experience and examination requirements. Ideally, the family financial planning and counseling concentration suits students interested in careers as family financial planners or counselors in financial planning firms, banks, insurance companies, investment companies and social services.

The consumer affairs concentration prepares students for careers as consumer specialists in government, business, industry, communication and community services.

Family Financial Planning and Counseling Concentration

Office: 212 Adams Hall

The concentration in family financial planning and counseling has been accepted by the Certified Financial Planner Board of Standards, Inc. Students who successfully complete the concentration will be eligible to sit for the CFP® certification examination that leads to the professional certification as a Certified Financial Planner™ professional and CFP®. CFP® and Certified Financial Planner™ are certification marks owned by the Certified Financial Planner Board of Standards, Inc., (CFP Board). These marks are awarded to individuals who successfully complete the CFP Board#s initial and ongoing certification requirements. The University of Alabama does not certify individuals to use the CFP® and Certified Financial Planner™ marks. CFP® certification is granted solely by the CFP Board to individuals who, in addition to completing an educational requirement such as this CFP Board-Registered Program, have met ethics, experience and examination requirements.

Freshman

Fall	Hours	Spring	Hours
HES 100 (or HES 103 for Distance Learners)	3	EN 102	3
EN 101	3	CSM 201	3
MATH 110 or 112	3	EC 110	3

CS 102 or CSM 101	3	Choose two core requirements	6-7
Choose core requirement	3-4		
	15-16		**15-16**

Sophomore

Fall	Hours	Spring	Hours
CSM 204	3	ST 260 or BER 345	3
EC 111	3	CSM 410	3
HD 262, 462, TH 113, or COM 123	3	CSM 401	3
Choose History or Literature to start sequence	3	Choose two core requirements	6-7
Choose core requirement	3	CSM 300	1
	15		**16-17**

Junior

Fall	Hours	Spring	Hours
CSM 400	3	CSM 420	3
CSM 404	3	CSM 454	3
CSM 403	3	Choose one core requirement	3
AC 210	4	CSM 390 (Field Experience / Internship recommended)	3
Choose one core requirement	3	Elective	3
	16		**15**

Senior

Fall	Hours	Spring	Hours
Elective	3	CSM 460	3
CSM 458	3	CSM 405	3
HES 310	3	CSM 459	3
CSM 381	3	CSM 441	3
		CSM 390	3
	12		**15**

Total Hours: 119-122

Consumer Affairs Concentration

Office: 212 Adams Hall

The concentration in consumer affairs prepares students for careers as consumer specialists in government, business, industry, communication and research. Students develop the ability to analyze situations from the perspectives of consumers, businesses and government, and to communicate these issues. Graduates enter careers related to consumer affairs, consumer education, marketing and sales. Many Fortune 500 companies have a consumer affairs department. In addition, many newspapers, magazines and television stations are focusing on consumer education or areas related to mediation of consumer grievances.

Freshman

Fall	Hours	Spring	Hours
HES 100 (or HES 103 for Distance Learners)	3	EN 102	3
EN 101	3	CSM 201	3
MATH 110 or 112	3	EC 110	3
CS 102 or CSM 101	3	Choose two core requirements	6-8
Choose a core requirement	3-4		
	15-16		**15-17**

Sophomore

Fall	Hours	Spring	Hours
CSM 204	3	CSM 381	3
EC 111	3	BER 345	3
CSM 445 or CS 285	3	Choose two core requirements	6-7
Choose one core requirement	3-4	Choose two elective courses	6
Choose History or Literature to start sequence	3		
	15-16		**18-19**

Junior

Fall	Hours	Spring	Hours
CSM 403	3	CSM 405	3
CSM 459	3	CSM 462	3
Add one CSM elective	3	HES 430	3
CSM 401	3	Choose one core requirement	3-4
Choose one core requirement	3-4	Choose one elective	3
		undefined	
	15-16		**15-16**

Senior

Fall	Hours	Spring	Hours
HES 310	3	Recommended CSM 390 Field Experience/Internship	6
CSM 415	3		
CSM 441	3		
Choose elective course	3		
CSM 425	3		
	15		**6**

Total Hours: 114-121

Consumer Sciences Minor

Office: 212 Adams Hall

Admission into the Minor

A minor in consumer sciences is available to students outside the Department of Consumer Sciences. Eighteen hours are required for the minor, including CSM 201 Indiv Family Resourc Mgt amd CSM 204 Intro Personl Finan Plan, and 12 additional hours selected in consultation with a department advisor.

Ideally, students should formally declare a minor before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in consumer sciences requires the successful completion of the following 18 semester hours:

		Hours
CSM 201	Indiv Family Resourc Mgt	3
CSM 204	Intro Personl Finan Plan	3
CSM electives		12
Total Hours		18

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student should meet with an adviser in the major department for academic planning.

Faculty

Dean

Boschung, Milla D.

Chair

Boschung, Milla D.

Professors

Price, Barrie Jo

Wright, Kenneth E.

Associate Professor

Hodge, William H.

McFadden, Anna

Assistant Professor

Babiarz, Patryk

Brakefield, Jan L.

Cook Reuben

Fulmer, Caroline S.

McGahey, Courtney L.

Pentecost, Eve

Reddoch, Kym

Woodyard, Ann

Instructors

Dewitt, Regina

McMath, Juanita

Professor Emerita

Abdel-Ghany, Mohamed

Courses

CSM 101. Consumers And Technology. 3 sem. hrs.
The course features the use of basic applications of the computer, including word processing, database, electronic presentation, Internet searching, and fundamental computer maintenance. Students may not receive credit for both CSM 101 and CS 102.

CSM 116. The Mathematics of Compounding in Goal-Setting. 3 sem. hrs.
This course includes topics such as finite mathematics, the real number system, probability, and the algebra of functions with an emphasis on mathematical induction. This course includes money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning as the basis for mathematical problem solving exercises.
Prerequisite(s): MATH 100.

CSM 201. Indiv Family Resourc Mgt. 3 sem. hrs.
Management of human, material, and environmental resources to accomplish value-based goals. Highlights importance of decision making to achieve satisfaction and improve quality of life across the family life cycle.

CSM 204. Intro Personl Finan Plan. 3 sem. hrs.
The course presents financial planning within the context of the family life cycle and the consumer decision-making framework. It provides an overview of topics such as family financial goal setting, budgeting, risk management, savings, and investments.

CSM 206. Prac Fin Plan for Rest of Us. 3 sem. hrs.
Provides basic tools and technology necessary for development of a successful personal financial plan over one's life span. Topics include money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning.

CSM 300. Time Value of Money & Financial Calculations. 1 sem. hr.
The focus of this course is to develop a better understanding of the Time Value of Money concept and the types of financial calculations that will be required in courses such as Introduction to Investment Planning, Asset Management, Retirement Planning and the Capstone Course in Financial Planning.
Prerequisite(s) with concurrency: CSM 204.

CSM 301. Charact of a Good Leader. 3 sem. hrs.
Examine ways in which to become an effective leader. Evaluate leadership skills of others as they relate to knowledge obtained through chosen literature. Enhance the qualities of good leadership within oneself.

CSM 381. Consumer Marketing Management. 3 sem. hrs.
Principles of consumer-oriented marketing management with emphasis on consumer decision-making theory and practice.

CSM 390. Field Experience. 1-6 sem. hr.
Supervised experiences in the areas of consumer affairs or family financial planning with government, business, or industry.

CSM 400. Personal Insurance Plan & Mgt. 3 sem. hrs.
Survey of myriad of personal risks facing consumers and families throughout the life cycle. Emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.
Prerequisite(s): CSM 201 and CSM 204.

CSM 401. Consumer Protection. 3 sem. hrs.
Laws and agencies affecting the consumer's well-being, sources of consumer information, discussion of current consumer issues. Writing proficiency is required for a passing grade in this course.

CSM 403. Consumer Economics. 3 sem. hrs.
The role of the consumer in the economy. Economic analysis of market and nonmarket consumption activities, incorporating relevant social, psychological, political, and ecological considerations. Offered in the spring semester.

CSM 404. Personal Investment Plan & Mgt. 3 sem. hrs.
Concepts and techniques related to family financial investments.
Prerequisite(s): CSM 201 and CSM 204.

CSM 405. Public Policy. 3 sem. hrs.
A detailed analysis of U.S. public policy, recognizing the broader social and economic impacts of selected policies. Students will develop a better understanding of how and why specific policies are implemented and assess the strengths and weaknesses of different policy structures.

CSM 406. Consumer Mgt Quality Assurance. 3 sem. hrs.
Provides in-depth coverage of the primary theories and methods necessary for quality assurance in a wide range of organizational settings.

CSM 407. Consumr Qual Mgt Facilitn Skil. 3 sem. hrs.
Provides a comprehensive study of facilitation skills necessary to lead an organization in continuous improvement.

CSM 408. Consumer Quality Mgt Systems. 3 sem. hrs.
Provides an in-depth analysis of management systems as a method for organizing and leading business, educational, and health care institutions. The course will cover the primary issues related to management systems.

CSM 409. NY Wall Street Stdy Tour. 3 sem. hrs.
Provides an overview of the American financial system with emphasis on financial service providers, products and markets. Includes a 6-day tour of New York's financial district, presentations by financial professionals, team activities, assignments and stock market analysis.

CSM 410. Pers Retire Plan Employ Benefs. 3 sem. hrs.
Fundamentals for personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 201 and CSM 204.

CSM 413. Emotional Intelligence for Resolving Conflict and Career Success. 3 sem. hrs.
This course emphasizes insight and skill development that provides a foundation for students' success in business, career and life. The course is strength-oriented and encourages self-evaluation, self-determination and lifelong learning.

CSM 414. Personal Investment Planning & Management II. 3 sem. hrs.
This course expands upon the content of CSM 404/504, adding a number of new concepts that are relevant to understanding the management of investments for family and individual goal attainment. Lectures, readings, case studies, and problem sets are designed to help students in preparing for the Investment Planning section of the Certified Financial PlannerTM examination
Prerequisite(s): CSM 404.

CSM 415. Customer Service Management. 3 sem. hrs.
An in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Analysis of consumer needs, complaints, and education.

CSM 420. Personal Estate Planning. 3 sem. hrs.
Techniques of personal estate planning within the family life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 424. Addict. & Dysf. in Money Mgmt. 3 sem. hrs.
CSM 424/524 is an exploration of addictions and dysfunctions related to managing money and finances and a brief guide for changing dysfunctional behavior related to money. The course does not provide training in diagnosing, but rather emphasizes describing behavior.

CSM 425. Cons Conflict Med, Mgt & Neg. 3 sem. hrs.
A study of the various techniques of conflict resolution in consumer affairs.

CSM 427. Cons Conflct Med, Mgt & Neg I. 3 sem. hrs.
An in-depth study of skills to mediate, negotiate and manage conflict in the home and workplace. Written analysis is integral.

CSM 428. Cons Conflct Med, Mgt & Neg II. 3 sem. hrs.
Advanced exploration of the dynamics and impact of communication and difference on conflict mediation, negotiation and management. Students will expand understanding of human difference on the ability to work through conflict situations. Students will develop self-evaluation skills related to conflict experiences.

CSM 430. Family & Consumer Law. 3 sem. hrs.
The study of family and consumer law in specific issues of marriage, parent-child relationships, divorce, and the economic consequences of divorce, as well as consumerism and a general understanding of legal terms, resources, the legal system, and adversarial proceedings.

CSM 435. Psychology Of Money. 3 sem. hrs.
An innovative study of financial behaviors and their relationship to money management with emphasis placed on both theory and its application.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CSM 437. Developing The Leader Within. 3 sem. hrs.
An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.

CSM 440. Maximizing Use of Social Media Marketing. 3 sem. hrs.
In this course students will develop skills for strategic social media marketing and engagement. They will explore and utilize techniques for integrating social media marketing campaigns that serve as listening and outreach tools in building brand awareness. This course will provide a framework for online brand management and promotion for careers and majors in the college of Human Environmental Sciences.

CSM 441. Consumer Communications. 3 sem. hrs.
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Writing proficiency and use of the computer are required for a passing grade in this course.
Prerequisite(s): CS 102 or CSM 101.

CSM 445. Microcomp Appl Con Serv. 3 sem. hrs.
Encompasses the collection of technical skills and scientific methodologies which can be used to create computer-based solutions to real problems encountered in consumer services.
Prerequisite(s): CS 102 or CSM 101.

CSM 447. Digital Tools. 3 sem. hrs.
Provides students with skills to live and work in a digital environment by developing technological skills in use and application of computers, Internet, and other digital tools.
Prerequisite(s): CS 102 or CSM 101.

CSM 454. Personal Income Tax Mgt Planng. 3 sem. hrs.
An analysis of personal income tax management and planning as it relates to consumers and families throughout the life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 458. Spreadsheets in Fin. Decisions. 3 sem. hrs.
The focus of this course is to develop a working knowledge of Microsoft Excel as it may be used to analyze problems related to personal financial planning. The course emphasizes life-cycle planning and computer literacy. The course is designed to help students in becoming better prepared for the actual workplace environment.
Prerequisite(s): CSM 204 or RHM 474 or AC 210.

CSM 459. Tech of Counsl in Cons Science. 3 sem. hrs.
Fundamentals of counseling, communication, and ethics.

CSM 460. Personl Finan Plan Couns Tec. 3 sem. hrs.
A systems approach to financial management for individuals and families from the perspective of planner/counselor. Focuses on analytical techniques. Emphasizes identification and development of strategies for meeting client goals.
Prerequisite(s): CSM 201 and CSM 204 and CSM 400 and CSM 404 and CSM 458.

CSM 462. Financial Planning Practice Management. 3 sem. hrs.
An in-depth look at the professional side of careers in Consumer Sciences. Experiental activities, guest speakers, faculty lecturers and student projects provide students with opportunities to learn and practice traits, skills and abilities needed for a successful career.

CSM 475. Entrepreneurship In Hes. 3 sem. hrs.
A study of home-based businesses taught from the perspective of theory and application in family resource management.

CSM 480. E-Commerce@Human Envir Science. 3 sem. hrs.
Offers sound advice and vital practical help on developing an idea into a business on the Internet, addressing areas of specialization in human environmental sciences.

CSM 486. Consumer Conflict Mediation, Management & Negotiation III. 3 sem. hrs.
Survey of the theory and practice of the Employee Assistance Program (EAP). Six content areas will assist students in identifying their strengths and weaknesses in relation to the content areas.

CSM 490. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 491. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 492. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 493. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 499. Undergraduate Rsch. 3 sem. hrs.
Under faculty supervision, student will participate in a research project.

Department of Health Science

The Department of Health Science offers two majors leading to the bachelor of science (BS) degree. These majors are athletic training and health studies. Both majors require that all students enrolling as freshmen enter as health studies majors. Students interested in applying for admission to the Athletic Training Education Program should also take the prerequisites listed under that program.

Athletic Training Major

Office: 480 Russell Hall

Accredited by the Commission on Accreditation of Athletic Training Education (CAATE), this limited-enrollment program requires the completion of 120 semester hours as specified below and leads to the bachelor of science (BS) degree. To major in athletic training, a student must be accepted to the Athletic Training Education Program (ATEP) from the health studies major. He or she must complete the following requirements:

- Completion of the following classes with grades of C or higher:

		Hours
ATR 257	Intro to Athletic Training	3
ATR 258	Clinical Fundamentals	1
HHE 270	Personal Health	3
ATR 272	First Aid, Safety & CPR	2
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	4
Select one of the following:		3
MATH 112	Precalculus Algebra	
MATH 113	Precalculus Trigonometry	
MATH 115	Precalc Algebra & Trig	
MATH 125	Calculus I	
EN 101	English Composition	3
EN 102	English Composition	3
NHM 101	Intro Human Nutrition	3
PY 101	Intro To Psychology	3
Total Hours		28

- 2.5 cumulative grade point average (24+ hours)
- Evaluation by preceptors*
- Three recommendation forms*
- Personal interview with ATEP Selection Committee*
- Proof of current CPR training to include AED use
- Submission of official high school, junior college, college and University transcripts*
- Completion of formal application to ATEP*
- Evaluation by ATEP selection committee*
- Practical test by ATEP selection committee*

* These steps will be addressed in ATR 258 Clinical Fundamentals, which must be taken at The University of Alabama.

An average of 20 students are chosen to enter the major each year in compliance with CAATE accreditation standards and guidelines. Selections are made at the end of the spring semester. Students must also meet specific written technical standards prior to admission into the ATEP. A copy of these standards may be obtained from the office of the program director in 479 Russell Hall. After the selection, completion of the program requires a minimum of six consecutive semesters, or three academic years. All ATR courses must be taken in sequence and students must earn a C or higher in all major courses. Students enrolled in the major must maintain a cumulative GPA of 2.5. Admitted students are required to undergo bloodborne pathogen training, a physical examination and TB testing annually. ATEP students are also offered access to Hepatitis B vaccination at no charge. Students are also required to maintain current CPR for Health Care Professionals and first aid training.

NOTE: Admission to this program is competitive and satisfying published application requirements does not guarantee selection. Rather, students who meet published application criteria are guaranteed consideration for admission to the ATEP. An individual may request information concerning summative data on the most recent admissions from the program director. A student who wishes to obtain a teaching certificate may also pursue courses in the intended teaching subject area and prerequisite courses for application to the College of Education's alternative (non-traditional, fifth-year) certification program.

The undergraduate catalog is published at one-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet available from their academic advisers and in 101 Doster Hall.

Athletic training major requirements

		Hours
ATR 257	Intro to Athletic Training	3
ATR 258	Clinical Fundamentals	1
ATR 272	First Aid, Safety & CPR	2
ATR 300	Foundations in Athl. Training	3
ATR 310	Clinical Skills I	1
ATR 320	Clinical Skills II	1
ATR 357	Clinical Evaluation & Diagn I	3
ATR 358	Clinical Eval. Diagnosis II	3
ATR 360	Clin Eval & Diagnosis II	3
ATR 410	Clinical Skills III	1
ATR 420	Clinical Skills IV	1
ATR 430	Clinical Skills V	1
ATR 453	Appl Clin Res Skills	3
ATR 455	Pharm Path Athl Training	3
Department approved ATR Course		3
ATR 456	Principles of Rehab & Recon	3
ATR 457	Therapeutic Modalities	3
ATR 458	Seminar in Athl. Training	3
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	4
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
HHE 270	Personal Health	3
KIN 365	Applied Biomechanics	3
KIN 492	Physiology of Exercise	3
MATH 112	Precalculus Algebra	3
MATH 113	Precalculus Trigonometry	3
NHM 101	Intro Human Nutrition	3
NHM 315	Nutrition For Performance	3
PH 101	General Physics I	4
PY 101	Intro To Psychology	3
Electives (variable)		
Total Hours		81

Health Studies Major

Office: 470 Russell Hall

The program in health studies is designed for students interested in public health education and/or other health professions. Students enrolled in the Health Education and Health Promotion concentration will prepare for careers as public health educators in various settings. In addition, the Health Professions concentration is appropriate for students interested in graduate study in physical therapy or medicine, as well as other allied health and public health professions. Total coursework required for the degree is 120 semester hours.

Health Studies Major Requirements

		Hours
HHE 270	Personal Health	3
HHE 273	Community And Public Health	3
HHE 370	Prin/Foundatn Health Promotion	3
HHE 445	Environmental Health	3
HHE 446	Health Disparities	3
CHS 420	Basic Epidemiology	3
CSM 441 or CSM 445	Consumer Communications Microcomp Appl Con Serv	3
CSM 447	Digital Tools	3
PY 211 or BER 345 or ST 260	Elem Statistical Methods or Educational Statistics Statistical Data Analysis	3
Total Hours		27

In addition to the Health Studies Major Requirements, students should select either the Health Education and Health Promotion concentration **or** the Health Professions concentration.

The undergraduate catalog is published at one-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet available from their academic advisers.

Health Education and Health Promotion Concentration

In addition to the Health Studies Major Requirements, students should select either the Health Education and Health Promotion concentration **or** the Health Professions concentration.

The requirements for the Health Education and Health Promotion concentration are listed below.

Health Education & Health Promotion Concentration

		Hours
HHE 378	Drug Awareness Education	3
HHE 440	Understanding Stress Mgt	3
HHE 467	Design Eval Health Promo	3
HHE 468	Pract Appl Health Comm & Promo	3
HHE 480	Culminating Experience in Health Education and Promotion	3
HD 475	Human Sexuality Sex Education	3
KIN 199	Ecol Appr Hlth & Fitness	3
NHM 101	Intro Human Nutrition	3
Total Hours		24

The undergraduate catalog is published at one-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet available from their academic advisers.

Health Professions Concentration

Health Professions Student Services
200 Clark Hall; (205) 348-5970
premed.ua.edu
premed@ua.edu

The Health Professions Concentration can be used by students who identify an interest in applying to allied health graduate programs (i.e., medicine, dentistry, physical therapy, pharmacy, etc.). Students should identify this interest early in order to complete the program requirements for the respective graduate program. Applications to such programs should be submitted approximately six months to one year prior to the expected date of enrollment. The Graduate Record Exam (GRE) or the Medical College Admission Test (MCAT) is required by most allied health schools. The Health Professions Student Services in the College of Arts and Sciences is available to assist health studies majors wishing to apply to allied health graduate programs.

The health professions advising program works with all students who are interested in pursuing careers in medicine, dentistry, physical therapy, pharmacy and other health professions except nursing.

The requirements for the Health Professions Concentration are listed below.

Health Professions Concentration

		Hours
*Choose 3 courses for a total of 9 hours		
HHE 378	Drug Awareness Education	3
HHE 440	Understanding Stress Mgt	3
HD 475	Human Sexuality Sex Education	3
KIN 199	Ecol Appr Hlth & Fitness	3
NHM 101	Intro Human Nutrition	3
Total Hours		9

AND

Health Professions Support Courses	Hours
*Choose 4 courses in consultation with health studies advisor	
Health-related course	3
Health-related course	3
Health-related course	3
Health-related course	3
Total Hours	12

NOTE: Prerequisite courses for allied health graduate programs can also be used for the Health Professions Support Courses. Specific admissions requirements vary; therefore, students preparing to enter allied health graduate programs should consult the catalogs of the graduate schools of their interest early in their undergraduate enrollment in order to be informed of the exact requirements for entrance.

The undergraduate catalog is published at one-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet available from their academic advisers.

Faculty

Department Head

Birch, David

Professors

Birch, David

Turner, Lori

Usdan, Stuart

Associate Professor

Leaver-Dunn, Deidre

Paschal, Angelia

Assistant Professors

Gordon, Brian

Nickelson, Jen

Zemke, Jeri

Instructor

Harcrow, Andy

Athletic Training Preceptors

Allen, Jeff

Boyle, Chris

Bragg, Amy

Breedlove, David

Brown, Rodney

Burroughs, Bernard

Chen, Sam

Cormier, John

Cox, Brandon

Dabbs, Perry

Decker, Monica

Faunda, Mandy

Gilmore, Ginger

Goins, Ashly

Gsell, Jeremy

Hallman, Marna

Hendrix, Sheryl

Hoffer, Joe

Jordan, Christopher

Kidd, Katie

Kimbro, Sherry

McGill, Andy

Mohr, Tara

Morr, John

Payne, Erika

Phillips, Brent

Taylor, Amanda

Truelove, Anthony

Weaver, Erin

Wise, Christopher

Athletic Training (ATR) Courses

ATR 257. Intro to Athletic Training. 3 sem. hrs.
The study of current principles in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.

ATR 258. Clinical Fundamentals. 1 sem. hr.
The study and practice of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, rehabilitation and reconditioning of injuries and illnesses. Directed observations under the guidance of BOC certified athletic trainers.

ATR 272. First Aid, Safety & CPR. 2 sem. hrs.
The discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children and adults and AED use.

ATR 300. Foundations in Athl. Training. 3 sem. hrs.
Study and discussion of topics and clinical skills related to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Introduction to the organization and administration of athletic training programs.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 310.

ATR 310. Clinical Skills I. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and BSC 215 and NHM 315 and ATR 300
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 300.

ATR 320. Clinical Skills II. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the lower extremities. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and NHM 315 and ATR 357 and BSC 216 and KIN 365
Prerequisite(s) with concurrency: ATR 357 and BSC 216 and KIN 365.

ATR 357. Clinical Evaluation & Diagn I. 3 sem. hrs.
Study of the lower extremities as they relate to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215
Prerequisite(s) with concurrency: BSC 216 and KIN 365 and ATR 320.

ATR 358. Clinical Eval. Diagnosis II. 3 sem. hrs.
Study of the upper extremities as they relate to the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 457 and ATR 410.

ATR 360. Clin Eval & Diagnosis II. 3 sem. hrs.
Study of the head, neck, face, abdomen, thorax and thoracic and lumbar spines as they relate to the preventions; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 420 and ATR 456.

ATR 410. Clinical Skills III. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and ATR 358 and ATR 457
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 457.

ATR 420. Clinical Skills IV. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and KIN 492 and ATR 360 and ATR 456
Prerequisite(s) with concurrency: KIN 492 and ATR 360 and ATR 456.

ATR 430. Clinical Skills V. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well organized athletic training program. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and ATR 454 and ATR 455 and BSC 215 and BSC 215 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 454 and ATR 455.

ATR 453. Appl Clin Res Skills. 3 sem. hrs.
Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings. Offered summer semester.
Prerequisite(s): ATR 300 and ATR 310 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101.

ATR 454. Org. Ad. Athletic Training. 3 sem. hrs.
Current theories, methods and techniques in the organization and administration of athletic training programs.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101.

ATR 455. Pharm Path Athl Training. 3 sem. hrs.
The study of acute and chronic illnesses and their response to and the impact on, physical activity. Discussion of pharmacologic agents used in the management of common acute and chronic illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 454.

ATR 456. Principles of Rehab & Recon. 3 sem. hrs.
Methods, theories and techniques in the rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to rehabilitation and reconditioning.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 360 and ATR 420 and KIN 492.

ATR 457. Therapeutic Modalities. 3 sem. hrs.
Current theories, methods and techniques in the application of therapeutic modalities during the treatment rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to therapeutic modalities.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410.

ATR 458. Seminar in Athl. Training. 3 sem. hrs.
Discussion of current issues in athletic training with an emphasis on research and the application of current research to the practice of athletic training. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 430, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457.

ATR 488. Internship in Athl Training. 1-12 sem. hr.
Directed internship in a health care facility for the senior athletic training student.

ATR 490. Anatomical Basis. 3 sem. hrs.
An in depth review of the anatomical structures associated with common orthopaedic injuries. Cadaveric dissection and prosection review activities included.

ATR 496. Ind Study Athletic Training. 1-12 sem. hr.
Independent study of skills and topics in athletic training for the senior athletic training student.

General Health Studies (HHE) Courses

HHE 270. Personal Health. 3 sem. hrs.
A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE 273. Community And Public Health. 3 sem. hrs.
Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE 370. Prin/Foundatn Health Promotion. 3 sem. hrs.
The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.
Prerequisite(s): HHE 273.

HHE 378. Drug Awareness Education. 3 sem. hrs.
Introduction to topics associated with drug-taking behavior, emphasizing drug education. Physiological, psychological, and sociological aspects of drug-taking behavior are examined. Writing proficiency within this discipline is required for a passing grade in this course.

HHE 440. Understanding Stress Mgt. 3 sem. hrs.
An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE 445. Environmental Health. 3 sem. hrs.
The course is designed to promote the acquisition of environmental health knowledge and skills for application in community/public health education settings. Course content will address environmental factors that affect human and ecological health and environmental health education and promotion strategies.

HHE 446. Health Disparities. 3 sem. hrs.
This course is designed to explore health disparities in the United States and throughout the world. Course content will address societal factors that have an impact on health disparities. The course focus will also address cultural competency and appropriate health education and promotion strategies.

HHE 467. Design Eval Health Promo. 3 sem. hrs.
Designed to help health educators develop competencies in program design, implementation, and evaluation.
Prerequisite(s): HHE 370.

HHE 468. Pract Appl Health Comm & Promo. 3 sem. hrs.
A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.
Prerequisite(s): HHE 370.

HHE 480. Culminating Experience in Health Education and Promotion. 3 sem. hrs.
The purpose of this course is to provide students with an opportunity to apply health education and promotion competencies developed through their undergraduate course experiences. The course will include observations, application, and reflection of professional practice in a community/public health education program.
Prerequisite(s): HHE 370 and HHE 467 and HHE 468.

HHE 488. Internship Communty Hlth. 1-12 sem. hr.
Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.

HHE 496. Independent Study. 1-6 sem. hr.
Designed to provide the opportunity for independent work in any area of health education/health promotion.

Department of Human Development and Family Studies

The Department of Human Development and Family Studies offers majors in early childhood education (ECHS) and in human development and family studies (HDFS). Concentrations are provided in each major. In the ECHS major, one concentration in early childhood development is currently offered. In the HDFS major, four concentrations are offered: family studies, adolescent and youth development, general human development and family studies, and child life.

In addition to selecting a major and concentration, a student may also select a minor to enhance his or her program of study and career opportunities. Other University of Alabama academic divisions offer many appropriate minors. Requirements for these minors are found in the sections of this catalog pertaining to those divisions. The student should select a concentration and/or minor in consultation with a departmental advisor to ensure that program requirements are fulfilled. The student should also consult the advisor before choosing elective courses. Students who plan to apply for graduate study should complete at least one elective course in undergraduate research methods and statistics.

All students with a major in human development and family studies must take the following courses as part of the University core requirements:

		Hours
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I	4
BSC 109	Intro Biology Non Maj II	
HD 101	Life Span Human Development	3
PY 101	Intro To Psychology	3

In addition, please note that every student in the Department of Human Development and Family Studies is required to select an existing concentration or propose his or her own personalized concentration. In the event that a student wishes to propose a personalized concentration of courses, he or she must make application following a prescribed process. Students interested in this option should contact the chairperson of the department.

Human Development and Family Studies Major

The major in human development and family studies provides an understanding of growth and development throughout the lifespan. Following are descriptions of the concentrations available to HDFS majors, including courses required in each concentration. There are also recommended elective courses to enhance the various programs of study. A list of these courses is available from the student's departmental advisor.

Concentration in Family Studies

The concentration in family studies provides an understanding of the development of the family system, the dynamics of family relationships and their bidirectional influence on family members. Students who earn a grade of C or better in each course in the program are eligible to apply for certification as a family life educator by the National Council on Family Relations. This concentration prepares students to plan and implement programs in parent education, relationship/marriage education and human sexuality education. Graduates work in a variety of settings, such as industry, family service agencies, mental health agencies, churches, nursing homes, and schools. This concentration is also well-suited for students interested in pursuing a graduate degree in marriage and family therapy, as well as other fields that serve children and families.

Each student completing the family studies concentration must have a cumulative grade point average of 2.0 or higher in both HD and UA coursework before enrolling in HD 497. Most internship opportunities require a minimum cumulative GPA of 2.5. Students should contact the internship coordinator for further information.

Required Courses

		Hours
CSM 201	Indiv Family Resourc Mgt	3
HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
HD 262	Marriage And Family	3
HD 302	Child Dev-Adolescence	3
HD 382	Parent And Family Devt	3
HD 462	Interpersonal Relationships	3
HD 472	Program Evaluation	3
HD 475	Human Sexuality Sex Education	3
HD 483	Methods of Family Life Education	3
HD 488	Senior Seminar	2
HD 497	Family Studies Internship	6
Choose one of the following:		3
CSM 430 or	Family & Consumer Law	
HD 480	Children And Divorce	
Total Hours		41

Concentration in Adolescent and Youth Development

The adolescent and youth development concentration is planned for students who are interested in the growth and development of adolescents and youth within the family, peer and school contexts. The goal of this concentration is to prepare students for work in a variety of settings, including community-based programs, home-based programs, and mental-health agencies. Additionally, this concentration provides the necessary background for students interested in pursuing graduate studies in adolescent and youth development. The curriculum consists of the HDFS core courses as well as specialty courses that highlight adolescent and youth issues.

Each student completing the adolescent and youth development concentration must have a grade point average of 2.0 or above in HD and UA coursework before enrolling in Adolescent Youth Devel Intern (HD 498). Many internship opportunities require a cumulative GPA of at least 2.5. Students should contact the internship coordinator for further information.

Required Courses

		Hours
HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
HD 302	Child Dev-Adolescence	3
HD 382	Parent And Family Devt	3
HD 462	Interpersonal Relationships	3
HD 472	Program Evaluation	3
HD 475	Human Sexuality Sex Education	3
HD 488	Senior Seminar	2
HD 498	Adolescent Youth Devel Intern	6
CJ 240 or	Juvenile Delinquency	3
SW 208	Juv Delinq:Causes/Control/Serv	
HHE 378	Drug Awareness Education	3
PY 372	Social Psychology	3
Total Hours		38

Concentration in General Human Development and Family Studies

The general HDFS concentration provides a flexible program for students interested in preparing for professional work or further study related to children and families through coursework only (there is no internship requirement). This program of study is especially relevant for students who would like to pursue advanced coursework in preparation for professional degrees (e.g., medical school). Other students who might find this option appropriate include students who wish to double major within four years or students who, for family or employment reasons, find a semester-long internship to be a particular hardship.

Required Courses

		Hours
HD 101	Life Span Human Development	3
HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
HD 262	Marriage And Family	3
HD 302	Child Dev-Adolescence	3
HD 382	Parent And Family Devt	3
Select 4 of the following:		12
HD 412	Adult Development	
HD 422	Admin Child Centers & Programs	
HD 462	Interpersonal Relationships	
HD 472	Program Evaluation	
HD 475	Human Sexuality Sex Education	
HD 480	Children And Divorce	
Approved HD course at the 300- or 400-level		
Select 4 of the following:		12
CJ 240 or	Juvenile Delinquency	
SW 208	Juv Delinq:Causes/Control/Serv	
CSM 201	Indiv Family Resourc Mgt	
CSM 430	Family & Consumer Law	

HHE 378	Drug Awareness Education	
PY 372	Social Psychology	
SPE 471	Dev Persp Young Child W/ Disab	
Total Hours		42

Concentration in Child Life

The child life concentration is planned for students who wish to study and work with children and youth in health care settings. The curriculum consists of a comprehensive foundation of courses related to the growth and development of the healthy child as well as children with illnesses. Through specific courses, students participate in laboratory and practicum experiences with children. These experiences, along with the theoretical information, provide a foundation necessary for working with hospitalized children and their families. This curriculum enables a student to become a candidate for the national certification exam administered by the Child Life Certifying Committee of the National Child Life Council. Students must make application to the child life program after completion of 60–90 hours with at least 12 hours of HD courses. Acceptance and retention in the program are determined by:

- satisfactory recommendation by HD faculty committee
- cumulative grade point average (GPA) of at least 2.5 and a GPA of 2.0 or above in HD courses (each student enrolled in the child life concentration must have a GPA of 2.5 or higher in human development coursework before enrolling in HD 496 Child Life Internship)

		Hours
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
HD 202	Child Dev-Infancy/Todlr	3
HD 203	Medical Terminology	2
HD 205	Child Dev-Preschool	3
HD 302	Child Dev-Adolescence	3
HD 321	Concp Creat Exper Young Child	3
HD 322	Conc Creat Exper Yng Chld II	3
HD 382	Parent And Family Devt	3
HD 422	Admin Child Centers & Programs	3
HD 426	Hospitalized Child Youth	3
HD 451	Loss And Bereavement	3
HD 472	Program Evaluation	3
HD 488	Senior Seminar	2
HD 496	Child Life Internship	12
PHL 223	Medical Ethics	3
Total Hours		57

Sample Curriculum for the Human Development and Family Studies Major

Freshman Year

		Hours
EN 101 & EN 102 or EN 103	English Composition and English Composition Advanced English Composition	3-6
HES 100	Freshman Compass Human Env Sci	3
Select one of the following:		4
BSC 109	Intro Biology Non Maj II	
BSC 114/115	Principles Of Biology I	
Computer Science (C) or foreign language (FL)		3-4
Math (MA)		3
PY 101	Intro To Psychology	3
History (HI) and social and behavioral sciences (SB)		9
Total Hours		28-32

Sophomore Year

HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
Computer science (C) or foreign language (FL)		3-4
Natural science (N)		4
Humanities (HU) and fine arts (FA)		12
Human development elective or concentration courses		3
Total Hours		28-29

Junior Year

HD 302	Child Dev-Adolescence	3
HD 382	Parent And Family Devt	3
Human development electives		6-9
Elective		6
Concentration or minor		12
Total Hours		30-33

Senior Year

HES 310	Issues Human Envir Sciences	3
HD internship, if applicable		6-12
HD 472	Program Evaluation	3
HD 488	Senior Seminar	2
Concentration or minor		9
Electives		9
Total Hours		32-38

Human Development and Family Studies Minor

Office: 214 CDRC

Admission into the Minor

Students are expected to formally declare a minor. With the assistance of an adviser in the minor department, students should complete the Change of Major/Minor Application online under the Student tab of myBama before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor the student has attempted at UA. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in human development and family studies requires the successful completion of the following 18 semester hours:

		Hours
HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
HD 302	Child Dev-Adolescence	3
HD 382	Parent And Family Devt	3
HD 462	Interpersonal Relationships	3
HD elective 300 or 400 level		3
Total Hours		18

Addictive Disorders and Recovery Studies Minor

Office: 214 CDRC

Admission into the Minor

Students are expected to formally declare a minor. With the assistance of an adviser in the minor department, Human Development and Family Studies, students should complete the Change of Major/Minor Application online under the Student tab of myBama before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA and all work attempted applicable to the minor throughout the entire higher education career. Please see the Grade Point Average (GPA) section of this catalog for an explanation on grade point average calculations.

Minor Courses

The minor in Addictive Disorders and Recovery Studies requires successful completion of the following 18 semester hours:

		Hours
HD 210	Understanding Addiction	3
HD 302	Child Dev-Adolescence	3
HD 345	Addiction and the Family	3
HD 350	Treatment For Addictive Disorders	3
HHE 378 or	Drug Awareness Education	3
SW 414	Chemical Dependency	
HD 405 or	Policy Issues: Family and Addiction or or	3
CJ 240	Juvenile Delinquency	
PY 358	Abnormal Psychology	
CSM 204	Intro Personl Finan Plan	
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Early Childhood Education Major

The major in early childhood education (ECHS) is designed to provide students with an understanding of the growth and development of young children (conception through 8 years of age). Students in this major have a concentration in early childhood development (ECD). In this concentration, students learn to apply developmental principles in the design, implementation and evaluation of programs for young children. At present, no public school certification is associated with this degree.

Each student completing the early child development concentration must have a grade point average of 2.0 or higher in both HD and UA coursework before enrolling in HD 495 Early Childhood Devel Intern. Many internship opportunities require a cumulative GPA of 2.5 or higher. Students should contact the department's internship coordinator, Dr. Laura Bloom, for further information.

		Hours
HD 202	Child Dev-Infancy/Todlr	3
HD 205	Child Dev-Preschool	3
HD 302	Child Dev-Adolescence	3
HD 321	Concp Creat Exper Young Child	3
HD 322	Conc Creat Exper Yng Chld II	3
HD 382	Parent And Family Devt	3
HD 422	Admin Child Centers & Programs	3
HD 472	Program Evaluation	3
HD 488	Senior Seminar	2
HD 495	Early Childhood Devel Intern	6
SPE 471	Dev Persp Young Child W/ Disab	3
Total Hours		35

Faculty

Department Head

Carroll M. Tingle

Professors

Hernandez-Reif, Maria

Stinnett, Nick

Associate professors

Curtner-Smith, Mary Elizabeth

Scofield, Jason

Enders, Linda

Witte, Tricia

Assistant professors

Bloom, Laura

Burns-Nader, Sherwood

Peeples, Victoria

Instructor

Stinnett, Nancy

Professor Emerita

Jesse, Peggy

Ladewig, Becky

Strickland, Martha S.

Courses

HD 101. Life Span Human Development. 3 sem. hrs.
An introductory survey of basic principles of human development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial development.HD 101 counts toward the Social and Behavioral Sciences requirement of the UA Core.

HD 155. Freshman Seminar. 3 sem. hrs.

HD 202. Child Dev-Infancy/Todlr. 3 sem. hrs.
The growth and development of the child from conception to three years of age are studied. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week.

HD 203. Medical Terminology. 2 sem. hrs.
A study of medical language by exploring the structure, meaning and usage of terms frequently utilized in health care settings. A basic summary of the body systems is included.
Prerequisite(s): BSC 109 or BSC 114 or BSC 118 and BSC 115.

HD 205. Child Dev-Preschool. 3 sem. hrs.
Growth, development, and guidance of young children. Practical implications of research and major theoretical issues and observational techniques are addressed. The importance of play in fostering a broad range of developmental goals for children is stressed. Three lecture hours, one laboratory hour per week.

HD 210. Understanding Addiction. 3 sem. hrs.
This course is an examination of chemical addiction (e.g.drugs) and behavioral addiction (e.g.,gambling). Theories of addiction, treatment of addiction, and current research on addiction will be discussed.
Prerequisite(s): None.

HD 226. Introduction To Child Life. 3 sem. hrs.
Provides students with an introduction to the field of child life.

HD 262. Marriage And Family. 3 sem. hrs.
A study of marriage and family relationships from a combination of sociological and psychological perspectives.

HD 282. Intro to Pre-K Education. 3 sem. hrs.
Course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K Initiative. An overview of development, guidance, and curriculum planning will be included. Lab participation included.

HD 302. Child Dev-Adolescence. 3 sem. hrs.
Introduction to the theory of and research on development of children ages nine to eighteen. Special attention is given to major transitions in the cognitive, social, and moral domains, as well as to psychological effects of physical maturation. Influences of the family, the schools, and peer relations on adolescent development are considered.

HD 321. Concp Creat Exper Young Child. 3 sem. hrs.
The principles underlying the selection, use, and value of experiences that appropriately foster concept development and creative expression in young children are examined. Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting.One-and-a half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205.

HD 322. Conc Creat Exper Yng Chld II. 3 sem. hrs.
Second in the sequence in which students examine the principles underlying the selection, use, and value of experiences that foster concept development and creative expression in young children.Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting. One-and-a-half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205 and HD 321.

HD 345. Addiction and the Family. 3 sem. hrs.
This course is an examination of the impact of substance abuse and addiction on the family as well as the influence of familial factors and family dynamics on addiction and the process of recovery.

HD 350. Treatment For Addictive Disorders. 3 sem. hrs.
This course will survey contemporary therapeutic approaches used to treat addictive disorders.

HD 382. Parent And Family Devt. 3 sem. hrs.
Explores the changing nature and dynamics of parent-child relationships. Implications for parent education programs and parenting strategies are included.

HD 399. Prior Learng Human Development. 1-30 sem. hr.

HD 401. Cult Influ Child Yth Fam. 3 sem. hrs.
This course is designed to understand race and ethnicity in its political, social and historical context. Since the culture in which we are raised as children and youth greatly influences our attitudes, beliefs, values and behaviors, it is important to gain an awareness of the cultural background of our own, as well as others' thoughts, feelings and acts. Writing proficiency within this discipline is required for a passing grade in this course. At the completion of this course, students should be able to recognize and appreciate the emotional and intellectual energies felt by a variety of subculture groups and be able to express this awareness through the written word.

HD 405. Policy Issues: Family and Addiction. 3 sem. hrs.
The impact of government policies on youth, adults, and families with addictions will be the focus of this course. The course will examine the intersection of addictions and crime, while exploring the policies and practices of specialty courts such as Juvenile Court, Family Court, Drug Courts and others. In addition, the students will review the current state of the family,family trends, and the implications for family policy. The varied effects that policies and programs can have on different types of families and different aspects of family functioning will be explored. The process of policy formation, implementation, evaluation and advocacy will be reviewed. Finally we will examine current economic and political forces that influence federal and state governments in development and implementation of key areas of legislation, and the impact of such policy on citizens and their families.
Prerequisite(s): None.

HD 412. Adult Development. 3 sem. hrs.
Theories of and research on social, emotional, cognitive, and physical development throughout adulthood: young adulthood, middle adult years, and older adult years. Writing proficiency within this discipline is required for a passing grade in this course.

HD 422. Admin Child Centers & Programs. 3 sem. hrs.
Children's centers and programs, including child development and child life programs, are examined and evaluated. Legislation, standards, program planning, and practical aspects of financing, administration, supervision, and management are explored. Writing proficiency within this discipline is required for a passing grade in this course.

HD 425. Adv Preschool Dev & Curriculum. 3 sem. hrs.
This course is designed for students to understand, design, implement and evaluate appropriate curricular practices for preschool children. Developmental theories and current issues in early childhood education are examined.

HD 426. Hospitalized Child Youth. 3 sem. hrs.
Examination of the theoretical basis of the psychosocial care of children, youth, and families in health care settings. The etiology of childhood illness and disease, clinical procedures, communication techniques, and research literature are studied from a developmental perspective. 45 practicum hours are required.

HD 451. Loss And Bereavement. 3 sem. hrs.
Designed to give child life students opportunities for in-depth study of issues of grief and bereavement as they impact children and families. An emphasis is placed on theories of grief resolution and applications in health care settings. The class is conducted in a seminar format with out-of-class placements.

HD 462. Interpersonal Relationships. 3 sem. hrs.
The course examines the dynamics of interpersonal interaction related to the development and maintenance of relationships. Current issues and problems are explored and related to marital and family system characteristics.

HD 472. Program Evaluation. 3 sem. hrs.
Examines the principles and methods by which programs for children and families are empirically evaluated.

HD 475. Human Sexuality Sex Education. 3 sem. hrs.
Current scientific knowledge of physiological, sociological, and psychological factors influencing sexual development and relations.

HD 480. Children And Divorce. 3 sem. hrs.
Examines the effects of divorce on children's cognitive and social-personality development.
Prerequisite(s): HD 101 or HD 262.

HD 483. Methods of Family Life Education. 3 sem. hrs.
Provides opportunities to plan, implement, and evaluate family life education programs. Standards and criteria leading to certified family life educator are overviewed. Professional responsibilities and ethics are emphasized.
Prerequisite(s): HD 382.

HD 488. Senior Seminar. 2 sem. hrs.
Examines the theory and philosophy of programs for families and children. Issues of professional identity and ethics are also discussed.

HD 491. Direct Individ Study-Hd. 1-6 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 492. Dir Ind Study Fam Rel. 1-3 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 493. Directed Research. 1-6 sem. hr.

HD 495. Early Childhood Devel Intern. 6-12 sem. hrs.
Internship experience for students in the early childhood development concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322.

HD 496. Child Life Internship. 12 sem. hrs.
Internship experience for students in the child life concentration only.2.5 GPA in HD coursework, fully executed HDFS Application for Internship form and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322 and HD 426.

HD 497. Family Studies Internship. 6-12 sem. hrs.
Internship experience for students in family studies concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor. Most internship opportunities require a 2.5 GPA.
Prerequisite(s): HD 483.

HD 498. Adolescent Youth Devel Intern. 6-12 sem. hrs.
Internship experience for students in the adolescent and youth development concentration only.2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 302.

Department of Human Nutrition and Hospitality Management

It is important for students to obtain the list of specific courses to be taken each semester from the department. Many of the courses in the major must be taken in a prescribed sequence, and most are offered only once each year.

Food and Nutrition Major

Office: 403 Russell Hall

The curriculum of the food and nutrition major is designed to prepare students for careers in health care facilities, community-health-nutrition programs, food-service management and business. The major offers two routes to registration as a dietitian: a didactic program in dietetics (DPD) and a coordinated program in dietetics (CPD), both of which are accredited by the Accreditation Council for Education in Nutrition and Dietetics. A third option, the nutrition sciences concentration, is designed for students who plan to attend medical school. The DPD prepares students to apply for dietetic internships in order to be eligible to take the registration examination for dietitians. Students who complete the CPD are eligible to take the registration examination after graduation.

All students in the coordinated or didactic program in dietetics follow the same plan of study for the first 66 or 68 hours. In the fall semester of the junior year, students either apply to the coordinated program or the didactic program track. Regardless of the option chosen, all students complete the required courses listed below:

Required Courses		Hours
BER 345	Educational Statistics	3
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
BSC 242	Microbiology And Man	4

CH 104	Introductory Chemistry	4
CH 105	Introductory Org Chem	4
HES 100	Freshman Compass Human Env Sci (Or)	3
HES 103	Distance Compass HES (Distance Learning Students Only*)	
HES 310	Issues Human Envir Sciences	3
NHM 101	Intro Human Nutrition	3
NHM 195	Intro Dietetics Nutritn	1
NHM 201	Nutrition In Life Cycle	3
NHM 253	Food Science	3
NHM 361	Nutritional Biochemistry	3
NHM 362	Nutrition At Cell Level	3
NHM 363	Applied Nutrition	3
NHM 365	Med Nutr Therapy I	3
NHM 372	Intro Food Service Mgt	3
NHM 373	Purchsg Design Risk Mgt Food S	3
NHM 374	Quant Food Prod & Servc	3
NHM 395	Intro Research Food Nutr	1
NHM 454	Experimental & Functional Food Science	3
NHM 465	Medical Nutrition Therapy II	3
NHM 340	Community Nutrition	3
NHM 441	Nutrition Education	2
NHM 442	Nutrition Care Process	1
NHM 475	Mgt Food Service Systems	3
NHM 491	Directed Professional Study	3
PY 101	Intro To Psychology	3
* Not required for transfer students		
Total Hours		82

Students who choose the coordinated program in dietetics must also take:

NHM 366	Supv Pract Med Nutr Therapy I	3
NHM 390	Pract Food Service Mgt I	3
NHM 464	Superv Pract Commun Nutr	1
NHM 466	Sup Pract Med Nutr Therapy II	3
NHM 467	Supervised Practice in Long-term Care	3
NHM 476	Pract Food Serv Mgt II	2
NHM 485	Sup Prac in Dic Mgmt	3

Didactic Program in Dietetics

The didactic program in dietetics (DPD) provides students with the required knowledge to apply for a dietetic internship. Upon successful completion of the DPD, students receive a verification statement indicating that they are eligible to enter a dietetic internship. Students in the DPD take the courses required of all food and nutrition majors plus NHM 492 Prepare Dietetic Internship (offered on campus only).

To receive a verification statement, students must meet the following requirements:

- complete the following courses with a C or better

NHM 101	Intro Human Nutrition	3
NHM 195	Intro Dietetics Nutritn	1
NHM 201	Nutrition In Life Cycle	3
NHM 253	Food Science	3
CH 104 & CH 105	Introductory Chemistry and Introductory Org Chem	8
BSC 215 & BSC 216	Human Anatomy & Physiology I and Human Anatomy & Physiology II	8
PY 101	Intro To Psychology	3

- have a cumulative GPA of 2.75 or higher
- have a B-or better in all 300 and 400 level courses in Food and Nutrition (including BER 345 Educational Statistics)
- complete all required DPD courses
- complete a bachelor's degree

Coordinated Program in Dietetics

The coordinated program in dietetics (CPD) provides students with both the required knowledge and supervised practice experiences to be eligible to sit for the national examination to become a registered dietitian (RD). The University of Alabama CPD provides a concentration and culminating experience in Dietetics Management and Communication. Students in the CPD take the courses required of all food and nutrition majors plus an additional seven courses (17 hours) in which they apply the theories presented in these courses through experiences in food service and health care facilities, as well as health promotion programs. Students interested in completing CPD should apply at the beginning of the junior year during the fall admission period. A second opportunity for admission is available at the end of the junior year during the spring admission period. Application forms are available from the department. Admission to the CPD is limited. Applications will be reviewed and recommended by the committee on admissions of the Department of Human Nutrition and Hospitality Management. Criteria for admission include the following:

- The student must present a cumulative grade point average of at least 2.5 and must have completed (with a minimum grade of C) or be enrolled in the following courses:

BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
CH 104	Introductory Chemistry	4
CH 105	Introductory Org Chem	4
EN 101	English Composition	3
EN 102	English Composition	3
NHM 101	Intro Human Nutrition	3
NHM 195	Intro Dietetics Nutritn	1
NHM 201	Nutrition In Life Cycle	3
NHM 253	Food Science	3

BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
CH 104	Introductory Chemistry	4
CH 105	Introductory Org Chem	4
EN 101	English Composition	3
EN 102	English Composition	3
NHM 101	Intro Human Nutrition	3
NHM 195	Intro Dietetics Nutritn	1
NHM 201	Nutrition In Life Cycle	3
NHM 253	Food Science	3

- Two courses in the social sciences and the core curriculum language requirement should have been completed.
- A pretest covering material from the above prerequisite courses is part of the admission process. The score on the pretest is considered by the committee on admissions.
- The applicant must complete an application form and a statement of activities and/or work experience and must provide a self-evaluation and three recommendation forms. The self-evaluation and recommendation forms are provided to the applicant. Each student will receive a copy of the CPD admission and retention policy, which delineates grade requirements for specific courses. Once admitted to the CPD, the student's progress is reviewed each semester, and the student is informed if remediation is required. If the normal progression through the program is interrupted, the student is not guaranteed a place in the next class and must reapply to the CPD the following year. Preference will be given to students matriculating at The University of Alabama.

Sample Curriculum for the Food and Nutrition Major

All Food and Nutrition Majors Completing CPD or DPD

Freshman Year		Hours
HES 100	Freshman Compass Human Env Sci (Or)	3
HES 103	Distance Compass HES (Distance Learning Students Only)	
NHM 101	Intro Human Nutrition	3
NHM 195	Intro Dietetics Nutritn	1
CH 104 & CH 105	Introductory Chemistry and Introductory Org Chem	8
PY 101	Intro To Psychology	3
EN 101 & EN 102 or	English Composition and English Composition	3-6
EN 103	Advanced English Composition	
Humanities (HU) or Fine Arts (FA) or Literature (L)		6
Mathematics (MA)		3
Total Hours		30-33

Sophomore Year

BSC 215 & BSC 216	Human Anatomy & Physiology I and Human Anatomy & Physiology II	8
NHM 201	Nutrition In Life Cycle	3
NHM 253	Food Science	3
Computer science (C) or foreign language (FL)		6-8
History (HI) or social and behavioral sciences (SB)		3
Statistics		3
Humanities (HU) or Fine Arts (FA) or Literature (L)		6
NHM 373	Purchsg Design Risk Mgt Food S	3
NHM 395	Intro Research Food Nutr	1
Total Hours		36-38

DPD Track

Junior Year

		Hours
NHM 361	Nutritional Biochemistry	3
NHM 362	Nutrition At Cell Level	3
NHM 363	Applied Nutrition	3
NHM 365	Med Nutr Therapy I	3
NHM 372	Intro Food Service Mgt	3
NHM 373	Purchsg Design Risk Mgt Food S	3
NHM 374	Quant Food Prod & Servc	3
NHM 441	Nutrition Education	2
NHM 442	Nutrition Care Process	1
Humanities (HU) or Fine Arts (FA) or Literature (L)		3
NHM 340	Community Nutrition	3
Total Hours		30

Senior Year

HES 310	Issues Human Envir Sciences	3
NHM 465	Medical Nutrition Therapy II	3
NHM 475	Mgt Food Service Systems	3
NHM 491	Directed Professional Study	3
NHM 492	Prepare Dietetic Internship	1
History (HI) and social and behavioral sciences (SB)		6
Humanities (HU) or Fine Arts (FA) or Literature (L)		3
BSC 242	Microbiology And Man	4
NHM 454	Experimental & Functional Food Science	3
Total Hours		29

CPD Track

Junior Year

NHM 361	Nutritional Biochemistry	3
NHM 362	Nutrition At Cell Level	3
NHM 363	Applied Nutrition	3
NHM 365	Med Nutr Therapy I	3
NHM 366	Supv Pract Med Nutr Therapy I	3
NHM 372	Intro Food Service Mgt	3
NHM 373	Purchsg Design Risk Mgt Food S	3
NHM 374	Quant Food Prod & Servc	3
NHM 390	Pract Food Service Mgt I	3
NHM 441	Nutrition Education	2
NHM 442	Nutrition Care Process	1
NHM 340	Community Nutrition	3
Total Hours		33

Senior Year

NHM 464	Superv Pract Commun Nutr	1
NHM 465	Medical Nutrition Therapy II	3
NHM 466	Sup Pract Med Nutr Therapy II	3
NHM 467	Supervised Practice in Long-term Care	3
NHM 475	Mgt Food Service Systems	3
NHM 476	Pract Food Serv Mgt II	2
NHM 485	Sup Prac in Dic Mgmt	3
NHM 491	Directed Professional Study	3
HES 310	Issues Human Envir Sciences	3
Humanities (HU)		6
History (HI) and social and behavioral sciences (SB)		3
NHM 454	Experimental & Functional Food Science	3
Total Hours		36

Nutrition Sciences Concentration for Food and Nutrition Majors

The nutrition sciences concentration is designed for students planning to attend medical school and who wish to major in food and nutrition. This concentration does not meet the requirements to become a registered dietitian. Students who choose to meet both the requirements for medical school and for registration as a dietitian should work with an advisor to add the necessary courses to this curriculum. Applications to medical school should be completed approximately one year prior to the expected date of enrollment. The Medical College Admission Test (MCAT) is required by most schools. The Health Professions Advising Office in the College of Arts and Sciences is available to assist food and nutrition majors.

		Hours
BSC 215	Human Anatomy & Physiology I	4
BSC 216	Human Anatomy & Physiology II	4
CH 101	General Chemistry	4
CH 102	General Chemistry	4
CH 231	Elem Organic Chemistry I	3
HES 310	Issues Human Envir Sciences	3
NHM 101	Intro Human Nutrition	3
NHM 195	Intro Dietetics Nutritn	1
NHM 201	Nutrition In Life Cycle	3
NHM 361	Nutritional Biochemistry	3
NHM 362	Nutrition At Cell Level	3
NHM 363	Applied Nutrition	3
NHM 365	Med Nutr Therapy I	3
NHM 395	Intro Research Food Nutr	1
NHM 465	Medical Nutrition Therapy II	3
NHM 441	Nutrition Education	2
NHM 442	Nutrition Care Process	1
PY 101	Intro To Psychology	3
Choose two of the following three writing courses:		6
NHM 454	Experimental & Functional Food Science	
NHM 491	Directed Professional Study	
NHM 340	Community Nutrition	3
Total Hours		60

Additional Courses Required for Premedical Education

		Hours
BSC 114 & BSC 115	Principles Of Biology I and Laboratory Biology I	4
BSC 116 & BSC 117	Principles Biology II and Biology II Laboratory	4
CH 232	Elem Organic Chem II	3
CH 237	Elem Organic Chem Lab	2
MATH 115	Precalc Algebra & Trig	3
MATH 125	Calculus I	4
PH 101	General Physics I	4
PH 102	General Physics II	4
Total Hours		28

Sample Curriculum for the Nutrition Sciences Concentration for Food and Nutrition Majors

Freshman Year

HES 100	Freshman Compass Human Env Sci	3
EN 101 & EN 102	English Composition and English Composition	6

CH 101 & CH 102	General Chemistry and General Chemistry	8
NHM 195	Intro Dietetics Nutritn	1
NHM 101	Intro Human Nutrition	3
PY 101	Intro To Psychology	3
Humanities (HU) or Fine Arts (FA) or Literature (L)		6
Math		3
Total Hours		33

Sophomore Year

CH 231	Elem Organic Chemistry I	3
BSC 215 & BSC 216	Human Anatomy & Physiology I and Human Anatomy & Physiology II	8
NHM 201	Nutrition In Life Cycle	3
Humanities (HU) or Fine Arts (FA) or Literature (L)		6
History (HI) or Social and Behavioral Sciences (SB)		9
NHM 253	Food Science	3
NHM 395	Intro Research Food Nutr	1
Total Hours		33

Junior Year

NHM 361	Nutritional Biochemistry	3
NHM 362	Nutrition At Cell Level	3
NHM 363	Applied Nutrition	3
NHM 365	Med Nutr Therapy I	3
NHM 441	Nutrition Education	2
NHM 442	Nutrition Care Process	1
Computer or Foreign Language		6-8
Electives (choose courses to meet premed requirements)		3
NHM 340	Community Nutrition	3
Total Hours		27-29

Senior Year

NHM 465	Medical Nutrition Therapy II	3
HES 310	Issues Human Envir Sciences	3
Electives (choose courses to meet premed requirements)		15
NHM 491	Directed Professional Study (Only taught in Summer)	3
NHM 454	Experimental & Functional Food Science	3
Total Hours		27

Food and Nutrition Minor

Office: 101 Doster Hall

Admission into the Minor

A minor in food and nutrition is offered by the department and requires 18–20 hours, including NHM 101 Intro Human Nutrition and NHM 201 Nutrition In Life Cycle. The remaining hours are determined in consultation with an academic adviser. To fulfill natural science requirements, students are encouraged to take introductory chemistry and introductory organic chemistry.

Students are expected to formally declare a minor. With the assistance of an adviser in the minor department, students should complete the of Major/Minor Application online under the Student tab of myBama before or during the third year of full-time enrollment.

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor Courses

The minor in food and nutrition requires the successful completion of a minimum of 18 semester hours:

		Hours
NHM 101	Intro Human Nutrition	3
NHM 201	Nutrition In Life Cycle	3
NHM electives 300 or 400 level		9
NHM electives	(NHM 253 or NHM 250 may be taken)	3
Total Hours		18

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Restaurant, Hotel and Meetings Management Major

Office: 403 Russell Hall

The restaurant, hotel and meetings management curriculum offers a variety of courses designed to develop the skills and abilities required for a management career in hospitality management. The curriculum prepares students for a career in restaurant, commercial and institutional food-service operations, hotel front office management, hotel convention services, convention center meeting management, convention and visitor bureaus, corporate and non-profit meeting and event planning, hotel food and beverage management, hotel marketing and sales, and country club management.

Students must complete a 500-hour practicum or a 500-hour internship in a hospitality organization. Students must also select a concentration in Restaurant/Food and Beverage Management, Hotel/Lodging Management, Meetings/Event Planning, or a General Concentration.

Students may complete requirements for the Manage First Professional (MFP) certification available from the Educational Foundation of the National Restaurant Association and/or the Certified Hospitality Supervisor (CHS) certification available from the Educational Institute of the American Hotel and Lodging Association.

Students must file with the department office the first semester of the sophomore year a plan of study for their concentration. The plan of study must be approved by the student's academic advisor. The RHM major is offered through the traditional on-campus setting or through distance education.

Distance Education RHM Program

Students completing the RHM program via distance education must complete the RHM Core Courses and the General RHM Concentration. The student's academic advisor will assist them in selecting appropriate online courses to fulfill academic requirements. Students may fulfill degree requirements for the RHM program entirely online.

Students that choose a concentration in Restaurant/Food and Beverage, Hotel/Lodging, Meetings/Event, or a General Concentration must take the additional classes required which are listed below.

Sample Curriculum for the Restaurant, Hotel and Meetings Management Majors

Freshman Year

Social and behavioral sciences (SB)		3
EN 101 & EN 102 or	English Composition and English Composition (RHM Elective)	3-6
EN 103	Advanced English Composition	
HES 100	Freshman Compass Human Env Sci	3
RHM 175	Intro Hotel Restaurant Hosp Mg	3
RHM 286	Prof Develp Hospitality Manage	1
Humanities (HU)		6
Fine arts (FA)		3
Mathematics (MA)		3

RHM Elective		3
Total Hours		28-31

Sophomore Year

Foreign language (FL) or Computer (C)		6-8
History (HI) or social and behavioral sciences (SB)		6
EC 110	Principles of Microeconomics	3
Humanities (HU)		3
Natural science (N)		8
RHM 251	Hospitality Employee Suprv/Mgt	3
Total Hours		29-31

Junior Year

AC 210	Intro To Accounting	4
RHM 303	Mgn Quality In Hosp Industry	3
Courses in RHM Concentration or minor		15
RHM or other electives		9
Total Hours		31

Senior Year

RHM 468 or	Practicum In Hospitality Mgt	1-2
RHM 469	Internship Hospitality Managem	
RHM 474	Mangr Acct Hospitality Industr	3
RHM 496	RHM Senior Capstone Seminar	1
Courses in RHM Concentration		15
RHM electives		6
HES 310	Issues Human Envir Sciences	3
Total Hours		29-30

Restaurant/Food and Beverage Concentration (30 hrs)

NHM 253	Food Science	3
RHM 285	Food Safety And Risk Managemen	3
RHM 356	Human Resources Management	3
RHM 375	Managing Catering Operations	3
RHM 377	Restaurant Management & Servic	3
RHM 420	Hospitality Marketing (or RHM 370 or MKT 300)	3
RHM 421	Hospitality Law (or LGS 200)	3
RHM 465	Food And Beverage Controls	3
RHM 478	Mgt Service Food Bev Operation	3
CSM 204	Intro Personl Finan Plan (or CSM 425 or CSM Elective)	3
Total Hours		30

Hotel/Lodging Concentration (30 hrs)

NHM 253	Food Science	3
RHM 241	Mgt Of Food/Beverage Operation	3
RHM 285	Food Safety And Risk Managemen	3
RHM 325 or	Lodging Operations & Managemnt	3
RHM 332	Front Office Management	
RHM 375	Managing Catering Operations	3
RHM 387	Hotel/Motel Security Managemen	3
RHM 420	Hospitality Marketing (or RHM 370 or MKT 300)	3
RHM 421	Hospitality Law (or LGS 200)	3
RHM 479	Convention Management & Servic	3
RHM 450	Issues Hotel & Lodg. Mgmt.	3
Total Hours		30

Meetings/Event Concentration (31 hours)

RHM 185	Intro Meetings Events Ind	3
RHM 321	Tourism & Hospitality Industry	3
RHM 370	Event Marketing	3
RHM 380	Convention Trade Show Manageme	3
RHM 385	Event Lead. Prog, Prob Solving	4
RHM 479	Convention Management & Servic	3
RHM 480	Adv Meeting & Convention Mgt	3
RHM 425	Risk Management for Meetings & Events	3
HES 460 or	Sport Management	3
MKT 337	Personal Selling	
Department Approved RHM Course		3
Total Hours		31

Only Concentration Available for Distance Students

General Concentration (30 hours)

RHM 241 or	Mgt Of Food/Beverage Operation	3
RHM 377	Restaurant Management & Servic	
NHM 253	Food Science	3
RHM 285	Food Safety And Risk Managemen	3
RHM 375 or	Managing Catering Operations	3
NHM 374	Quant Food Prod & Servc	
RHM 325 or	Lodging Operations & Managemnt	3
RHM 332	Front Office Management	
RHM 355	Hospitality Industry Training (or CSM Elective)	3
RHM 356	Human Resources Management (or CSM elective)	3
RHM 420	Hospitality Marketing (or RHM 370 or MKT 300)	3
RHM 421	Hospitality Law (or RHM 425 or LGS 200)	3
RHM, CSM or MGT Elective		3
Total Credit Hours		30

The University Club

On April 1, 2012 the College of Human Environmental Sciences assumed the day-to-day leadership and management functions of The University Club, located on Queen City Avenue, near downtown Tuscaloosa. Students in the Restaurant, Hotel and Meetings Management Program rotate through the club to gain “real world, hands-on” experiences. Students taking RHM 375, Managing Catering Operations, have the opportunity of hosting catered events at The University Club in both fall and spring semesters. Student learning is enhanced with opportunities to acquire knowledge in the classroom and then apply gained knowledge in a living laboratory.

The University Club was built on land reserved in 1819 by the Congress of the United States as part of a donation to endow “a seminary of learning” for the state of Alabama. In 1834 the current home was constructed by James Dearing, a steamboat captain and member of the Alabama Legislature. The home was occupied by Governor Arthur P. Bagby from 1834-1841 while he was Governor of Alabama. The home was presented to The University of Alabama in 1944 by the Herbert David Warner and Mildred Westervelt Warner family to be used as a social center for faculty and staff. You are encouraged to visit The University Club web site at universityclub.ua.edu for additional information about club history and activities.

Faculty

Chair

Meyer, Mary Kay

Professors

Meyer, Mary Kay

Neggers, Yasmin

Associate Professor

Hilliard, Tyra

Knol, Linda

Severt, Kimberly

Assistant Professors

Boyle, Kimberly

Crowe, Kristi

Ellis, Amy

Lawrence, Jeannine

Niuh, Alvin

Tuma, Lorie

Instructors

Blumenthal, Jason

Bridgewater, Diane

Davé, Nilam

Greene, Lori

McCool, Lori

McMahon, Shannon

University Club

Falls, Gene

Human Nutrition and Hospitality Management (NHM) Courses

NHM 101. Intro Human Nutrition. 3 sem. hrs.
Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

NHM 105. Personal Nutrition. 3 sem. hrs.
Discussion and application of nutrition as it relates to personal health.

NHM 195. Intro Dietetics Nutritn. 1 sem. hr.
An overview of the professions in nutrition and dietetics. Course includes guest speakers and lectures.

NHM 201. Nutrition In Life Cycle. 3 sem. hrs.
Application of principles of basic nutrition to each stage of the life cycle. Emphasis is on the relationship of nutrition to growth, development, and health.
Prerequisite(s): NHM 101.

NHM 210. Dynamics Weight Control. 3 sem. hrs.
Analysis of interaction of nutrition and exercise in weight control. Techniques for measuring energy needs, estimating body composition, applying nutrition principles to weight control, and evaluating popular diet and exercise programs.

NHM 250. Principles of Food Preparation. 3 sem. hrs.
Principles of Food Preparation as they relate to food quality and acceptability. Restricted to RHM and NHM minors.

NHM 253. Food Science. 3 sem. hrs.
Relation of food composition and structure to food preparation. One lecture, two laboratories.

NHM 305. Vegetarian Nutrition. 3 sem. hrs.
This course will provide students with an introduction to vegetarian nutrition, including background information on general nutrition. This course will also cover a vegetarian diet's role in disease prevention, courses of plant-based nutrients, vegetarian diets throughout the life cycle, food policy and how to implement vegetarian diets into different areas of dietetic practice.

NHM 315. Nutrition For Performance. 3 sem. hrs.
This course is designed to address nutrition issues related to exercise and athletic performance.
Prerequisite(s): NHM 101.

NHM 320. Food in Film. 3 sem. hrs.
This course begins as an introduction to the portrayal of food and nutrition culture in film media and goes on to explore the dynamic interaction of shifting food and nutrition values with evolving media production trends. Film media explored includes television, movies, documentaries and news.

NHM 340. Community Nutrition. 3 sem. hrs.
Nutrition assessment of individuals and groups; provision of nutrition services in the community. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 361. Nutritional Biochemistry. 3 sem. hrs.
Intermediary metabolism of carbohydrates, fat, and protein with emphasis on homeostatic regulation in health and disease.
Prerequisite(s): CH 105 or CH 231.

NHM 362. Nutrition At Cell Level. 3 sem. hrs.
Physiological and chemical basis of nutrient needs.
Prerequisite(s): NHM 361.

NHM 363. Applied Nutrition. 3 sem. hrs.
Principles of nutrition assessment, including interviewing and nutrition care plans. Application of principles to selected stages of the life cycle.
Prerequisite(s): NHM 201 and BSC 215 and BSC 216.

NHM 365. Med Nutr Therapy I. 3 sem. hrs.
Study of pathophysiology and medical nutrition therapy for specific disease conditions.
Prerequisite(s): BSC 215 and BSC 216 and NHM 361 and NHM 363.

NHM 366. Supv Pract Med Nutr Therapy I. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 365 coursework.
Prerequisite(s): NHM 365.

NHM 372. Intro Food Service Mgt. 3 sem. hrs.
Course includes theories, functions, and principles of management and tools for decision making. Offered in the fall semester.

NHM 373. Purchsg Design Risk Mgt Food S. 3 sem. hrs.
Principles, methods, and techniques used in purchasing food and equipment. Analysis of layout and design and of techniques used in evaluating work flow. Principles and techniques used in managing sanitation, safety, and security functions in food service.

NHM 374. Quant Food Prod & Servc. 3 sem. hrs.
Theory and techniques of quantity food production and service. Application of theory through hands-on experience.
Prerequisite(s): NHM 253.

NHM 390. Pract Food Service Mgt I. 3 sem. hrs.
This directed individual study is designed to bridge the gap between the student's quantity foods laboratory course and the senior food service management supervised practice. Students will be placed in commercial health-care food service operations.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 395. Intro Research Food Nutr. 1 sem. hr.
Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the American Dietetics Association Web site. Student membership in the American Dietetic Association is a requirement of this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 401. Nutrition Health Profesn. 3 sem. hrs.
Covers the practical application of principles of normal nutrition (including the nutritive value of foods) and introduces nutrition for persons with health problems. Primarily for students pursuing careers in health care.

NHM 441. Nutrition Education. 2 sem. hrs.
Focuses on developing competency in learning-system design, with special emphasis on teaching nutrition in various settings.
Prerequisite(s): NHM 101 and NHM 201.

NHM 442. Nutrition Care Process. 1 sem. hr.
Focuses on developing competency in nutrition counseling.
Prerequisite(s): NHM 101 and NHM 201
Prerequisite(s) with concurrency: NHM 363.

NHM 454. Experimental & Functional Food Science. 3 sem. hrs.
Chemical and physical properties affecting food product development. Introduction to functional foods with additional value beyond basic nutrition. Writing proficiency required for passing grade in this course. Offered in Fall and Spring semesters. Two lectures per week with labs embedded within lectures.
Prerequisite(s): NHM 101 and NHM 253 and CH 105.

NHM 457. Childhood Obesity. 3 sem. hrs.
Focuses on the physiological, genetic, environmental, and behavioral factors that predispose children and adolescents to obesity; explores the clinical and public health strategies for treatment and prevention.

NHM 464. Superv Pract Commun Nutr. 1 sem. hr.
Experiences that include nutrition assessment and counseling and delivery of nutrition services in the community.

NHM 465. Medical Nutrition Therapy II. 3 sem. hrs.
Continuation of NHM 365. Basic principles of enteral and parenteral nutrition support, as well as advanced medical nutrition therapy for critical care.
Prerequisite(s): NHM 365.

NHM 466. Sup Pract Med Nutr Therapy II. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 465 coursework.

NHM 467. Supervised Practice in Long-term Care. 3 sem. hrs.
Supervised clinical dietetics experience in the long-term care setting.
Prerequisite(s): NHM 365 and NHM 366 and NHM 465 and NHM 566.

NHM 468. Practicum Nutrition Food Servi. 1-5 sem. hr.
Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM 475. Mgt Food Service Systems. 3 sem. hrs.
Through lectures and class discussions, the theory, functions, and principles of management are applied. Emphasis is on personnel and financial management, problem solving, decision making, and systems analysis.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 476. Pract Food Serv Mgt II. 2 sem. hrs.
Supervised practice in an institutional food service setting applying NHM 475 coursework.

NHM 485. Sup Prac in Dic Mgmt. 3 sem. hrs.
Conduct a research project using appropriate research methods, ethical procedures and statistical analysis to culminate in the execution of a program for a target population. Develop and implement a curriculum, adhere to budget constraints and implement a marketing plan, utilizing web based messages and social media.
Prerequisite(s): NHM 366 and NHM 390 and NHM 464 and NHM 466.

NHM 490. Directed Individual Study. 1-6 sem. hr.
Individual study in nutrition or food service management.

NHM 491. Directed Professional Study. 3 sem. hrs.
Individual professional study in management, clinical, or community dietetics. Requirement of 160 clock hours spent in assigned site. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): NHM 365.

NHM 492. Prepare Dietetic Internship. 1 sem. hr.
To provide students in the DPD program who are seeking a Verification Satement with the knowledge to be successful in applying for a dietetic internship upon graduation.

NHM 499. Undergraduate Research. 1-6 sem. hr.
Under faculty supervision, the student designs an investigation; collects and analyzes data; and prepares a written report and seminar on the research project.

Restaurant, Hotel and Meetings Management (RHM) Courses

RHM 105. Nutrition for Hospitality Man. 3 sem. hrs.
Lecture and discussion introducing students to nutrition principles to evaluate and modify menus and recipes, as well as respond knowledgably to customers questions and needs.
Prerequisite(s): RHM 175.

RHM 175. Intro Hotel Restaurant Hosp Mg. 3 sem. hrs.
Introduction to the theory, functions, and principles of management in the restaurant, food service, and lodging industry. Examination of basic operational systems and problems related to the industry.

RHM 180. Effective Hospitality Communcn. 1 sem. hr.

RHM 185. Intro Meetings Events Ind. 3 sem. hrs.
Introduction to the structure, stakeholders and principles of management in the meetings and events industry. Examination of basic planning and production elements for meetings and events.

RHM 241. Mgt Of Food/Beverage Operation. 3 sem. hrs.
Course focuses on how to profitably manage a food service operation in order to satisfy guests. Students learn how to give guests the highest priority as the details of food and beverage operations are planned, implemented, and evaluated.

RHM 251. Hospitality Employee Suprv/Mgt. 3 sem. hrs.
Focuses on information managers need in order to recruit, select, and train employees; increase productivity; control labor costs; effectively communicate; manage conflict and change; and use time management techniques.

RHM 284. International Food Safety. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety and security functions in food service operations. Explore food safety issues like nanotechnology, emerging packagin, irradiation, food recalls, international food safety, food terrorism and genetically modified foods.
Prerequisite(s): RHM 175.

RHM 285. Food Safety And Risk Managemen. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety, and security functions in food service and lodging operations. Outlines sanitation and risk management programs that help hospitality operations provide quality products and services, comply with regulations, and improve the bottom line.

RHM 286. Prof Develp Hospitality Manage. 1-3 sem. hr.
Provides students with new and diverse experiences to increase their understanding of the restaurant, hotel and meetings management program. Class discussions, assigned readings, lectures, tours, and presentations by RHM faculty.

RHM 290. Food and Beverage Trends. 3 sem. hrs.
ServSafe Alcohol Certification course and tests are administered. Students are exposed to food and beverage trends at the Annual National Restaurant Association Show.
Prerequisite(s): RHM 175.

RHM 300. Event Plan Wedding Coordinator. 3 sem. hrs.
This course reviews the interdependent functions of event planning for weddings. Students will learn about the decisions, problems and concerns of planning effective wedding events. They will design, plan and execute a wedding from start to finish.

RHM 303. Mgn Quality In Hosp Industry. 3 sem. hrs.
Designed to acquaint students with quality and leadership issues facing today's hospitality industry. Students learn the principles of the Malcolm Baldridge National Quality Award, the concepts of continuous improvement, quality service, power and empowerment, communication skills, goal setting, teams, diversity, and managing organizational change. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 313. Contemporary Club Management. 3 sem. hrs.
Introduces students to the unique world of private club management. Focus on issues club managers face on a daily basis.

RHM 321. Tourism & Hospitality Industry. 3 sem. hrs.
Explores the broad range of factors that influence and affect tourism. Includes research and marketing methods.

RHM 322. Cruise Tourism. 3 sem. hrs.
Exploration & evaluation of the North American Cruise Industry to incude vacation cruising, economics, life aboard for passengers and crew, analysis of marketing campaigns and internet resources.
Prerequisite(s): RHM 175.

RHM 325. Lodging Operations & Managemnt. 3 sem. hrs.
Systematic approach to front-office and housekeeping management procedures. Emphasis is on reservations, billing and collection, housekeeping, and maintenance operations.
Prerequisite(s): RHM 175.

RHM 332. Front Office Management. 3 sem. hrs.
Introduces concepts of front-office management that affect other operating departments. Discusses techniques in managing the front office to ensure operational goals are attained.

RHM 345. Operations Mgt Gaming Ind. 3 sem. hrs.
RHM 175 or permission of instructor This course is designed to increase the understanding of the casino industry through visits to casino operations, hotels, and restaurants located with casinos. The course includes class discussions, assigned readings, lecture tours, and presentations by leading casino executives.
Prerequisite(s): RHM 175.

RHM 355. Hospitality Industry Training. 3 sem. hrs.
Student learns how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help the hospitality organization attain its operational goals and objectives.

RHM 356. Human Resources Management. 3 sem. hrs.
Explains how to meet the requirements of various labor laws, to include the Americans with Disabilities Act (ADA), as well as other employment and workplace laws. Explores strategies for attracting a wide range of applicants, minimizing turnover, and reducing productivity losses.

RHM 370. Event Marketing. 3 sem. hrs.
Students learn how to market to the Event Target Audience; anticipate client needs; and understand the event business and its unique value position and differentiation.
Prerequisite(s): RHM 175.

RHM 375. Managing Catering Operations. 3 sem. hrs.
Theory and techniques of professional catering with hands-on activities involved with the planning, organizing, and implementation of special catered events.

RHM 377. Restaurant Management & Servic. 3 sem. hrs.
Principles and methods of producing and serving quality food in restaurants. Writing proficiency is required for a passing grade in this course. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 380. Convention Trade Show Manageme. 3 sem. hrs.
A comprehensive analysis of trade shows. Emphasis is on organizing, arranging, and operating trade shows and conventions. Visits to trade shows are required.

RHM 385. Event Lead. Prog, Prob Solving. 4 sem. hrs.
Students gain knowledge, skills and experience in planning, executing, evaluating and problem solving with a variety of events on the UA campus. Students work with a minimum 10 hours per week with the University Union.

RHM 387. Hotel/Motel Security Managemen. 3 sem. hrs.
Exploration of security issues, concerns and practices affecting hospitality properties. Covers the physical security of the property asset protection, guest protection, security equipment, emergency management and procedures, and OSHA requirements.

RHM 390. Great Hotels of AL. 3 sem. hrs.
Students increase their understanding of the hotel industry through visits to Great Hotels in Alabama. Course includes class discussion, lecture tours, and presentations by leading hotel executives.

RHM 399. Prior Learning Restaur Hosp Mg. 1-30 sem. hr.

RHM 420. Hospitality Marketing. 3 sem. hrs.
Students learn how to create a sales team with creative, successful sales and marketing programs. Includes discussion on ways to sell rooms and food and beverage services to business and leisure travelers, travel agents, and meeting planners. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): RHM 175.

RHM 421. Hospitality Law. 3 sem. hrs.
Students gain an understanding of potential legal problems and how important legal considerations can affect the hospitality industry. Legal cases related to the hospitality industry are explored.

RHM 425. Risk Management for Meetings & Events. 3 sem. hrs.
A study of risk, crisis, and liability issues that may arise in the planning and management of meetings and events. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): RHM 175 or RHM 185.

RHM 446. Hospitality Purchasing. 3 sem. hrs.
Students learn how to purchase major commodities and nonfood supplies, ensuring price and product quality. Course explains how to deal effectively with suppliers and includes the managerial aspects of purchasing.

RHM 448. Bar And Beverage Management. 3 sem. hrs.
Discussion on strategies to profitably manage the bar and beverage department of the hospitality operation. Covers control systems, hiring and training, responsible alcohol service, and essential information on a wide range of beverage products.

RHM 450. Issues Hotel & Lodg. Mgmt. 3 sem. hrs.
Prerequisite(s): RHM 175.

RHM 465. Food And Beverage Controls. 3 sem. hrs.

RHM 468. Practicum In Hospitality Mgt. 1-2 sem. hr.
Students explore a variety of issues of importance to the effective management of hospitality organizations. Topics vary according to needs of students and issues facing the hospitality industry.

RHM 469. Internship Hospitality Managem. 1 sem. hr.
A semester of work experience in an approved hospitality organization for a minimum of 600 hours. Students work full-time during the semester to gain insight into hospitality management responsibilities.
Prerequisite(s): RHM 175.

RHM 474. Mangr Acct Hospitality Industr. 3 sem. hrs.
Students learn how to make effective managerial, business, and operational decisions based on a thorough understanding of financial statements; identify costs; develop realistic budgets; forecast; and plan cash flow.
Prerequisite(s): RHM 175 and AC 210.

RHM 478. Mgt Service Food Bev Operation. 3 sem. hrs.
Explores requirements in planning for and managing different types of food and beverage operations.

RHM 479. Convention Management & Servic. 3 sem. hrs.
An exploration of techniques used to increase a hospitality property's convention and meeting business through marketing and service. Students learn how to address meeting planners' needs and concerns confidentially, creatively and effectively.

RHM 480. Adv Meeting & Convention Mgt. 3 sem. hrs.
Reviews the interdependent functions of meetings and convention management. The student develops and executes a professional meeting.

RHM 485. Foundations Seminar. 3 sem. hrs.
Seminar designed for students accepted in the executive restaurant and hospitality management (ExRHM) program.

RHM 488. Individual Seminar Projects. 3-12 sem. hrs.
Individual projects designed by students to implement concepts and strategies learned in executive seminars. Project plans must be approved by RHM faculty prior to implementation.

RHM 490. Directed Individual Study. 1-6 sem. hr.

RHM 495. Capstone Senior Project. 12 sem. hrs.
A required major learning experience for ExRHM students. Project is designed by the student to include research, analysis, and synthesis of a particular topic related to hospitality industry operations. Project must be approved by RHM faculty prior to implementation.
Prerequisite(s): RHM 485.

RHM 496. RHM Senior Capstone Seminar. 1 sem. hr.
Discussion of current issues in the hotel, restaurant, and convention industries.
Prerequisite(s): RHM 175.

General Studies in HES

The curriculum in general studies in human environmental sciences enables students to integrate knowledge from all areas of the field and prepares them for employment or further study. The general studies option is designed for those interested in careers in cooperative extension, government, human services, utility companies or an area of the communications field. Courses are selected in consultation with an adviser.

The purpose of this program is to give the student with specific career goals an opportunity to develop an innovative program of study with a focus on at least one area within the College. Each student majoring in general human environmental sciences is expected to file a program of study prior to the completion of 100 hours and in accordance with the following guidelines:

- The proposed course of study must include 120 hours (including the statewide general studies requirements), The University of Alabama Core Curriculum requirements and the College of Human Environmental Sciences core requirements.
- The proposed course of study must give evidence that the student has built a cohesive structure of interrelated ideas around a focus within the College of Human Environmental Sciences and must include a minimum of 35 hours of coursework offered by the College of Human Environmental Sciences.
- The proposal must demonstrate that the proposed program could not be better served by an existing major program within the College.
- At the time of submission, the proposal must include a statement of approval by a faculty adviser chosen from the area of specialization.
- The proposal must indicate that the student has examined the consequences of the proposed program in relation to career goals and post-graduation plans.

The minimum requirements for a degree in General Studies in Human Environmental Sciences at The University of Alabama are:

- An approved program of study prior to the completion of 100 hours and in accordance with the CHES guidelines and courses selected in consultation with the student's advisor.
- A minimum of 120 earned semester credit hours, including all University Core Curriculum requirements and a minimum of 35 hours of coursework offered by the College of Human Environmental Sciences including the human environmental sciences core courses (HES 310 Issues Human Envir Sciences for all students and HES 100 Freshman Compass Human Env Sci for new freshmen on campus HES 103 Distance Compass HES for new online freshman).
- A 2.0 or higher grade point average for all college-level courses attempted, all courses attempted at The University of Alabama and all courses attempted in the major field of study.
- At least 30 semester credit hours earned in residence in the College of Human Environmental Sciences, including at least nine of the last 18 hours required for a degree.

It is the student's responsibility to make sure that all degree requirements have been met. Students should review the academic requirements of this catalog and under DegreeWorks through their myBama account, then arrange to meet with their academic advisers within the College two semesters prior to graduation to verify that all requirements will have been fulfilled by the expected date of graduation. In order to graduate, a student must submit an application for degree using the online application for degree available under myBama no later than the time he or she registers for the final semester in residence.

Freshman

Fall	Hours	Spring	Hours
EN 101	3	EN 102	3
HES 100	3	Natural Science core	4
FA core	3	Humanities core	3
Math core	3	SB core	3
Elective	3	Elective Course	3
	15		**16**

Sophomore

Fall	Hours	Spring	Hours
Lit core	3	FL or C core	3
SB core	3	History core	3
FL or C core	3	HU LIT or FA core	3
NS core	4	HES course	3
HES course	3	Elective	3
	16		**15**

Junior

Fall	Hours	Spring	Hours
SB or History core	3	Writing core	3
Writing Core	3	HES courses	9
HES 310	3	Elective	3
HES course	3		
Electives	3		
	15		**15**

Senior

Fall	Hours	Spring	Hours
HES courses	9	HES courses	9
Electives	6	Electives	4
	15		**13**

Total Hours: 120

Faculty

Assistant Dean

Victoria D. Peeples

Athletic Training (ATR) Courses

ATR 257. Intro to Athletic Training. 3 sem. hrs.
The study of current principles in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.

ATR 258. Clinical Fundamentals. 1 sem. hr.
The study and practice of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, rehabilitation and reconditioning of injuries and illnesses. Directed observations under the guidance of BOC certified athletic trainers.

ATR 272. First Aid, Safety & CPR. 2 sem. hrs.
The discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children and adults and AED use.

ATR 300. Foundations in Athl. Training. 3 sem. hrs.
Study and discussion of topics and clinical skills related to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Introduction to the organization and administration of athletic training programs.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 310.

ATR 310. Clinical Skills I. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and BSC 215 and NHM 315 and ATR 300
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 300.

ATR 320. Clinical Skills II. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the lower extremities. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and NHM 315 and ATR 357 and BSC 216 and KIN 365
Prerequisite(s) with concurrency: ATR 357 and BSC 216 and KIN 365.

ATR 357. Clinical Evaluation & Diagn I. 3 sem. hrs.
Study of the lower extremities as they relate to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215
Prerequisite(s) with concurrency: BSC 216 and KIN 365 and ATR 320.

ATR 358. Clinical Eval. Diagnosis II. 3 sem. hrs.
Study of the upper extremities as they relate to the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 457 and ATR 410.

ATR 360. Clin Eval & Diagnosis II. 3 sem. hrs.
Study of the head, neck, face, abdomen, thorax and thoracic and lumbar spines as they relate to the preventions; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 420 and ATR 456.

ATR 410. Clinical Skills III. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and ATR 358 and ATR 457
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 457.

ATR 420. Clinical Skills IV. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and KIN 492 and ATR 360 and ATR 456
Prerequisite(s) with concurrency: KIN 492 and ATR 360 and ATR 456.

ATR 430. Clinical Skills V. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well organized athletic training program. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and ATR 454 and ATR 455 and BSC 215 and BSC 215 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 454 and ATR 455.

ATR 453. Appl Clin Res Skills. 3 sem. hrs.
Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings. Offered summer semester.
Prerequisite(s): ATR 300 and ATR 310 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101.

ATR 454. Org. Ad. Athletic Training. 3 sem. hrs.
Current theories, methods and techniques in the organization and administration of athletic training programs.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101.

ATR 455. Pharm Path Athl Training. 3 sem. hrs.
The study of acute and chronic illnesses and their response to and the impact on, physical activity. Discussion of pharmacologic agents used in the management of common acute and chronic illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 454.

ATR 456. Principles of Rehab & Recon. 3 sem. hrs.
Methods, theories and techniques in the rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to rehabilitation and reconditioning.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 360 and ATR 420 and KIN 492.

ATR 457. Therapeutic Modalities. 3 sem. hrs.
Current theories, methods and techniques in the application of therapeutic modalities during the treatment rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to therapeutic modalities.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410.

ATR 458. Seminar in Athl. Training. 3 sem. hrs.
Discussion of current issues in athletic training with an emphasis on research and the application of current research to the practice of athletic training. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 430, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457.

ATR 488. Internship in Athl Training. 1-12 sem. hr.
Directed internship in a health care facility for the senior athletic training student.

ATR 490. Anatomical Basis. 3 sem. hrs.
An in depth review of the anatomical structures associated with common orthopaedic injuries. Cadaveric dissection and prosection review activities included.

ATR 496. Ind Study Athletic Training. 1-12 sem. hr.
Independent study of skills and topics in athletic training for the senior athletic training student.

Athletic Training (HAT) Courses

HAT 455. Pharmacology Athletic Training. 3 sem. hrs.

Clothing, Textiles and Interior Design (CTD) Courses

CTD 102. Applied Design. 3 sem. hrs.
Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD 121. Intro Interior Design. 3 sem. hrs.
Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two laboratory one lecture
Prerequisite(s) with concurrency: DR 135.

CTD 215. Introduction to Rendering. 3 sem. hrs.
An introduction to achromatic and contemporary color graphics media used in sketching, rendering and design drawings, with emphasis on schematics used in problem solving and rapid rendering techniques for interior delineation.
Prerequisite(s): CTD 121.

CTD 216. Beginning Weaving. 3 sem. hrs.
Study of original design in loom weaving techniques; dressing the loom; drafting designs; and weaving and finishing procedures. Offered irregularly. Two laboratories.

CTD 217. Fashion Illustration. 3 sem. hrs.
Emphasis is on the development of the fashion figure, design details, fabric rendering, flats, customer profile analysis, and collection development. In addition, students using advanced computer design software, create original digital design layouts of their work. Two lectures, one laboratory.
Prerequisite(s): CTD 102 and ART 110.

CTD 221. Matl Source Int Design. 3 sem. hrs.
Study of manufacturers' products for residential and nonresidential interior design; construction materials, finishes, furniture and furnishings. Offered in the fall semester.

CTD 225. Residnt Des/Graphic Comm. 3 sem. hrs.
Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of programming, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 121 DR 135 or Permission of Instructor
Prerequisite(s) with concurrency: DR 135 and CTD 121.

CTD 226. Nonresidential Design. 3 sem. hrs.
Fundamentals of nonresidential interior design with emphasis on presentation graphics. Exploration of programming, spatial organization, and codes and standards for the business environment. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 225.

CTD 231. Sewn Products Analysis. 3 sem. hrs.
Structural analysis of textile products for apparel and household use. Focus on products, standards, specifications, and relationships among performance, quality, and price.
Prerequisite(s): CTD 261.

CTD 241. Apparel Construction. 3 sem. hrs.
Introduction to apparel producer-retailer relationships. Emphasis on quality control and time management in meeting apparel specifications through application of apparel construction, fitting, and pattern alteration principles. Two laboratories.

CTD 245. Apparel Production. 3 sem. hrs.
Team approach to apparel product development including market research, design concepts, garment specification writing, sourcing, costing, production, quality control, and promotional materials. Offered in the spring semester. Two laboratories.

CTD 250. Construction Procedures for Interior Design. 3 sem. hrs.
Building construction for interior designers with emphasis on architectural procedures and systems including electrical, plumbing, lightning, acoustical, and thermal control. Includes introduction to Revit software
Prerequisite(s): CTD 226.

CTD 255. Comp Appl for Interior Design. 3 sem. hrs.
This course will provide students with a basic understanding of computer software applications and project documentation commonly used in interior design. Software introduced includes: Photoshop, InDesign, Sketchup, and 3D Studio Max. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CTD 226 CS 102.

CTD 261. Textiles. 3 sem. hrs.
Characteristics of the textile industry, fibers, yarns, fabric construction, and finishes. Selection, care, and performance characteristics.

CTD 281. Fashion Retailing I. 3 sem. hrs.
Organization, promotion methods, and interrelationship of the textiles, apparel, and retailing industries. Includes consumer demand and diffusion of fashion. Offered in the fall semester.

CTD 300. New York Study Tour. 3 sem. hrs.

CTD 301. I. D. New York Study Tour. 3 sem. hrs.

CTD 312. Advanced Computer Applications. 3 sem. hrs.
This course will provide students with an advanced understanding of computer software applications and project documentation commonly used in interior design. The skills are presented in a format that emphasizes use of the computer as a creative tool. Computer Software used in class: Photoshop and Revit. Extensive use of the computer is a condition for passing the class.

CTD 319. Textile Design. 3 sem. hrs.
Using the latest computerized design systems, students create original designs, repeats, colorways, and coordinates targeting specific markets. Emphasis is on the creative use of advanced software, awareness of industry trends and the development of an original portfolio of digitally produced designs.
Prerequisite(s): CTD 102.

CTD 320. Visual Merchandising. 3 sem. hrs.
Introduces contemporary display techniques, equipment, and materials for designing three-dimensional product presentations within the retail environment. Using advanced computer software, students create and execute original visual programs and storewide promotions. Two lectures, one laboratory.
Prerequisite(s): CTD 102.

CTD 321. History of Interiors I. 3 sem. hrs.
Study of the furnishings, interior treatments, and lifespaces characteristic f selected styles up to 1790. Offered in the Fall semester
Prerequisite(s): CTD 226.

CTD 323. Interior Design Internship Sem. 1 sem. hr.
Exploration of internship possibilities and requirements, development of job-search skills and internship placement.
Prerequisite(s): CTD 226.

CTD 325. Design For Special Populations. 3 sem. hrs.
Design of interior environments for persons with special needs such as health care, rehabilitation, education, and congregate-care interiors. Cabinet and millwork design. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 226.

CTD 326. Design For Hospitality Interio. 3 sem. hrs.
Planning and design of interior spaces; project management; design and specification of interior architectural materials and furnishings. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 325.

CTD 328. Prof Proced Interior Des. 3 sem. hrs.
Philosophy and organization of professional practice; studio management, contracts, budgets, specifications, and professional organizations. Offered in the spring semester.

CTD 330. Autocad for Interior Design. 3 sem. hrs.
Principles, terminology, command sequencing and execution, and equipment use for computer-aided design applications within the field of interior design. Review of basic commands with emphasis on intermediate and advanced applications.
Prerequisite(s): CS 102.

CTD 335. Interior Design Media. 3 sem. hrs.
Emphasis is on developing rendering techniques and improving some portfolio pieces as time allows. Freehand perspective methods will be demonstrated, practiced, and applied.

CTD 340. Portfolio Development. 3 sem. hrs.
Dedicated to the study and completion of a student portfolio.

CTD 341. Italian Fashion. 3 sem. hrs.
Students travel to italy to research and experience the influence of culture on the fashion industry.
Prerequisite(s): CTD 281.

CTD 349. Compt-Aid Apparel Design. 3 sem. hrs.
Application of computer technology to fashion illustration, apparel design, marker making, pattern making, and pattern grading. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 350. Flat Pattern Design. 3 sem. hrs.
Principles and procedures governing development and use of master patterns. Application of flat pattern principles to the execution of original designs. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 245.

CTD 351. Apparel Des Thru Drpng. 3 sem. hrs.
Techniques of draping on a dress form are applied in the execution of original designs. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 353. Language of Design. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EN 101 and EN 102; or EN 103 and CTD 121.

CTD 355. Global Influences on Design. 3 sem. hrs.
Prerequisite(s): CTD 121.

CTD 371. Lighting For Interiors. 3 sem. hrs.
Integration of the theory, techniques, and art of lighting design; principles, terminology, and equipment used in light distribution systems in the interior environment. Two lectures, one laboratory.
Prerequisite(s): CTD 226 and DR 250 and DR 135.

CTD 381. Fashion Retailing Seminar. 3 sem. hrs.
Focus on professional development and profit analysis. Exploration of internship possibilities and requirements, development of job-search skills, and internship placement. Enrollment open to students applying for fashion retailing internships. Offered in the spring semester.

CTD 387. Fashion Marketing. 3 sem. hrs.
It is the purpose of the this course to provide retailing and fashion design students with a marketing course that focuses on the fashion industry. Course Description - Apply the four Ps of the marketing concept - Price, Product, Promotion and Place - to the fashion industry, including branding, promotion, internaional marketing, and consumer behavior as related to the fashion industry.
Prerequisite(s): CTD 281.

CTD 415. History Textile Design. 3 sem. hrs.
Study of the history of textiles emphasizing the influence of cultural factors. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 422. History Of Interiors II. 3 sem. hrs.
Study of research methods and design theories utilizing historical knowledge from CTD 321. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 423. Intern Interior Design. 3 sem. hrs.
Experience in interior design or related business under supervision of advisor and the business management. Offered during the summer session.

CTD 425. Advanced Residential Design. 4 sem. hrs.
Problems in design of the home environment; individual and group problem solving. Emphasis is on historic preservation principles and practices for interior designers. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 326.

CTD 426. Advanced Nonresidential Design. 4 sem. hrs.
Problems in design of business and professional interiors; construction drawings using computer-assisted design; individual and group problem solving. Requires senior thesis. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 425.

CTD 427. Advanced Computer Applications in Design. 3 sem. hrs.
This course will provide students with an overview of computer software applications and project documentation commonly used in design. The course will provide an overview and introduction to Revit and 3d studio max.
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 446. Cult Dynam Apparel Text. 3 sem. hrs.
Impact of cultural dynamics on apparel and textile production and marketing. Offered in the spring semester.

CTD 447. Text Apparl Intnat Trade. 3 sem. hrs.
Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 or EC 111; and CTD 281.

CTD 448. History Of Costume. 3 sem. hrs.
Costume development from prehistoric to modern times. Study of cultural forces in relation to the evolution of costume. Offered in the fall semester.

CTD 450. Advanced Apparel Design. 3 sem. hrs.
Synthesis and application of design theories; procedures and processes used in the apparel industry. Development of portfolio of original design work is required. Two laboratories. Offered in the fall semester.
Prerequisite(s): CTD 350 and CTD 351.

CTD 455. Advanced Computer Applications In Design. 3 sem. hrs.
The course will provide students with an overview of computer software applications and project documentation commonly used in design. The Course will provide an overview and introduction to Revit and 3d studio max. The Skills are presented in a format that emphasizes use of the computer as a creative tool. Students will develop a mastery of the programs in subsequent courses Extensive use of the computer is a condition for passing this course.3
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 461. Qual Contr Textile Prod. 3 sem. hrs.
Use of standard laboratory test methods and computerized statistical data analysis to evaluate the quality of textile products. Block course. Offered in the fall semester.
Prerequisite(s): CTD 261.

CTD 481. Fashion Retailing II. 3 sem. hrs.
Merchandise planning and control; techniques of merchandising, including unit and dollar assortment planning, inventory control, and procurement. Block course. Offered in the fall semester.
Prerequisite(s): CTD 381.

CTD 485. Intern Fashion Retailing. 6 sem. hrs.
To participate, students must make application to the department by the first day of classes during the spring semester of the junior year. A grade point average of 2.50 or higher is required for the professional courses specified under "Fashion Retailing Concentration for AT Majors" in this catalog. The course involves supervised work experience in a business related to the major field of study.
Prerequisite(s): CTD 381.

CTD 498. Directed Indiv Studies. 1-6 sem. hr.
Independent Study.

CTD 499. Directed Indiv Studies. 1-6 sem. hr.

Consumer Sciences (CSM) Courses

CSM 101. Consumers And Technology. 3 sem. hrs.
The course features the use of basic applications of the computer, including word processing, database, electronic presentation, Internet searching, and fundamental computer maintenance. Students may not receive credit for both CSM 101 and CS 102.

CSM 116. The Mathematics of Compounding in Goal-Setting. 3 sem. hrs.
This course includes topics such as finite mathematics, the real number system, probability, and the algebra of functions with an emphasis on mathematical induction. This course includes money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning as the basis for mathematical problem solving exercises.
Prerequisite(s): MATH 100.

CSM 201. Indiv Family Resourc Mgt. 3 sem. hrs.
Management of human, material, and environmental resources to accomplish value-based goals. Highlights importance of decision making to achieve satisfaction and improve quality of life across the family life cycle.

CSM 204. Intro Personl Finan Plan. 3 sem. hrs.
The course presents financial planning within the context of the family life cycle and the consumer decision-making framework. It provides an overview of topics such as family financial goal setting, budgeting, risk management, savings, and investments.

CSM 206. Prac Fin Plan for Rest of Us. 3 sem. hrs.
Provides basic tools and technology necessary for development of a successful personal financial plan over one's life span. Topics include money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning.

CSM 300. Time Value of Money & Financial Calculations. 1 sem. hr.
The focus of this course is to develop a better understanding of the Time Value of Money concept and the types of financial calculations that will be required in courses such as Introduction to Investment Planning, Asset Management, Retirement Planning and the Capstone Course in Financial Planning.
Prerequisite(s) with concurrency: CSM 204.

CSM 301. Charact of a Good Leader. 3 sem. hrs.
Examine ways in which to become an effective leader. Evaluate leadership skills of others as they relate to knowledge obtained through chosen literature. Enhance the qualities of good leadership within oneself.

CSM 381. Consumer Marketing Management. 3 sem. hrs.
Principles of consumer-oriented marketing management with emphasis on consumer decision-making theory and practice.

CSM 390. Field Experience. 1-6 sem. hr.
Supervised experiences in the areas of consumer affairs or family financial planning with government, business, or industry.

CSM 400. Personal Insurance Plan & Mgt. 3 sem. hrs.
Survey of myriad of personal risks facing consumers and families throughout the life cycle. Emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.
Prerequisite(s): CSM 201 and CSM 204.

CSM 401. Consumer Protection. 3 sem. hrs.
Laws and agencies affecting the consumer's well-being, sources of consumer information, discussion of current consumer issues. Writing proficiency is required for a passing grade in this course.

CSM 403. Consumer Economics. 3 sem. hrs.
The role of the consumer in the economy. Economic analysis of market and nonmarket consumption activities, incorporating relevant social, psychological, political, and ecological considerations. Offered in the spring semester.

CSM 404. Personal Investment Plan & Mgt. 3 sem. hrs.
Concepts and techniques related to family financial investments.
Prerequisite(s): CSM 201 and CSM 204.

CSM 405. Public Policy. 3 sem. hrs.
A detailed analysis of U.S. public policy, recognizing the broader social and economic impacts of selected policies. Students will develop a better understanding of how and why specific policies are implemented and assess the strengths and weaknesses of different policy structures.

CSM 406. Consumer Mgt Quality Assurance. 3 sem. hrs.
Provides in-depth coverage of the primary theories and methods necessary for quality assurance in a wide range of organizational settings.

CSM 407. Consumr Qual Mgt Facilitn Skil. 3 sem. hrs.
Provides a comprehensive study of facilitation skills necessary to lead an organization in continuous improvement.

CSM 408. Consumer Quality Mgt Systems. 3 sem. hrs.
Provides an in-depth analysis of management systems as a method for organizing and leading business, educational, and health care institutions. The course will cover the primary issues related to management systems.

CSM 409. NY Wall Street Stdy Tour. 3 sem. hrs.
Provides an overview of the American financial system with emphasis on financial service providers, products and markets. Includes a 6-day tour of New York's financial district, presentations by financial professionals, team activities, assignments and stock market analysis.

CSM 410. Pers Retire Plan Employ Benefs. 3 sem. hrs.
Fundamentals for personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 201 and CSM 204.

CSM 413. Emotional Intelligence for Resolving Conflict and Career Success. 3 sem. hrs.
This course emphasizes insight and skill development that provides a foundation for students' success in business, career and life. The course is strength-oriented and encourages self-evaluation, self-determination and lifelong learning.

CSM 414. Personal Investment Planning & Management II. 3 sem. hrs.
This course expands upon the content of CSM 404/504, adding a number of new concepts that are relevant to understanding the management of investments for family and individual goal attainment. Lectures, readings, case studies, and problem sets are designed to help students in preparing for the Investment Planning section of the Certified Financial PlannerTM examination
Prerequisite(s): CSM 404.

CSM 415. Customer Service Management. 3 sem. hrs.
An in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Analysis of consumer needs, complaints, and education.

CSM 420. Personal Estate Planning. 3 sem. hrs.
Techniques of personal estate planning within the family life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 424. Addict. & Dysf. in Money Mgmt. 3 sem. hrs.
CSM 424/524 is an exploration of addictions and dysfunctions related to managing money and finances and a brief guide for changing dysfunctional behavior related to money. The course does not provide training in diagnosing, but rather emphasizes describing behavior.

CSM 425. Cons Conflict Med, Mgt & Neg. 3 sem. hrs.
A study of the various techniques of conflict resolution in consumer affairs.

CSM 427. Cons Conflct Med, Mgt & Neg I. 3 sem. hrs.
An in-depth study of skills to mediate, negotiate and manage conflict in the home and workplace. Written analysis is integral.

CSM 428. Cons Conflct Med, Mgt & Neg II. 3 sem. hrs.
Advanced exploration of the dynamics and impact of communication and difference on conflict mediation, negotiation and management. Students will expand understanding of human difference on the ability to work through conflict situations. Students will develop self-evaluation skills related to conflict experiences.

CSM 430. Family & Consumer Law. 3 sem. hrs.
The study of family and consumer law in specific issues of marriage, parent-child relationships, divorce, and the economic consequences of divorce, as well as consumerism and a general understanding of legal terms, resources, the legal system, and adversarial proceedings.

CSM 435. Psychology Of Money. 3 sem. hrs.
An innovative study of financial behaviors and their relationship to money management with emphasis placed on both theory and its application.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CSM 437. Developing The Leader Within. 3 sem. hrs.
An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.

CSM 440. Maximizing Use of Social Media Marketing. 3 sem. hrs.
In this course students will develop skills for strategic social media marketing and engagement. They will explore and utilize techniques for integrating social media marketing campaigns that serve as listening and outreach tools in building brand awareness. This course will provide a framework for online brand management and promotion for careers and majors in the college of Human Environmental Sciences.

CSM 441. Consumer Communications. 3 sem. hrs.
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Writing proficiency and use of the computer are required for a passing grade in this course.
Prerequisite(s): CS 102 or CSM 101.

CSM 445. Microcomp Appl Con Serv. 3 sem. hrs.
Encompasses the collection of technical skills and scientific methodologies which can be used to create computer-based solutions to real problems encountered in consumer services.
Prerequisite(s): CS 102 or CSM 101.

CSM 447. Digital Tools. 3 sem. hrs.
Provides students with skills to live and work in a digital environment by developing technological skills in use and application of computers, Internet, and other digital tools.
Prerequisite(s): CS 102 or CSM 101.

CSM 454. Personal Income Tax Mgt Planng. 3 sem. hrs.
An analysis of personal income tax management and planning as it relates to consumers and families throughout the life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 458. Spreadsheets in Fin. Decisions. 3 sem. hrs.
The focus of this course is to develop a working knowledge of Microsoft Excel as it may be used to analyze problems related to personal financial planning. The course emphasizes life-cycle planning and computer literacy. The course is designed to help students in becoming better prepared for the actual workplace environment.
Prerequisite(s): CSM 204 or RHM 474 or AC 210.

CSM 459. Tech of Counsl in Cons Science. 3 sem. hrs.
Fundamentals of counseling, communication, and ethics.

CSM 460. Personl Finan Plan Couns Tec. 3 sem. hrs.
A systems approach to financial management for individuals and families from the perspective of planner/counselor. Focuses on analytical techniques. Emphasizes identification and development of strategies for meeting client goals.
Prerequisite(s): CSM 201 and CSM 204 and CSM 400 and CSM 404 and CSM 458.

CSM 462. Financial Planning Practice Management. 3 sem. hrs.
An in-depth look at the professional side of careers in Consumer Sciences. Experiental activities, guest speakers, faculty lecturers and student projects provide students with opportunities to learn and practice traits, skills and abilities needed for a successful career.

CSM 475. Entrepreneurship In Hes. 3 sem. hrs.
A study of home-based businesses taught from the perspective of theory and application in family resource management.

CSM 480. E-Commerce@Human Envir Science. 3 sem. hrs.
Offers sound advice and vital practical help on developing an idea into a business on the Internet, addressing areas of specialization in human environmental sciences.

CSM 486. Consumer Conflict Mediation, Management & Negotiation III. 3 sem. hrs.
Survey of the theory and practice of the Employee Assistance Program (EAP). Six content areas will assist students in identifying their strengths and weaknesses in relation to the content areas.

CSM 490. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 491. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 492. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 493. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 499. Undergraduate Rsch. 3 sem. hrs.
Under faculty supervision, student will participate in a research project.

General Health Studies (HHE) Courses

HHE 270. Personal Health. 3 sem. hrs.
A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE 273. Community And Public Health. 3 sem. hrs.
Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE 370. Prin/Foundatn Health Promotion. 3 sem. hrs.
The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.
Prerequisite(s): HHE 273.

HHE 378. Drug Awareness Education. 3 sem. hrs.
Introduction to topics associated with drug-taking behavior, emphasizing drug education. Physiological, psychological, and sociological aspects of drug-taking behavior are examined. Writing proficiency within this discipline is required for a passing grade in this course.

HHE 440. Understanding Stress Mgt. 3 sem. hrs.
An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE 445. Environmental Health. 3 sem. hrs.
The course is designed to promote the acquisition of environmental health knowledge and skills for application in community/public health education settings. Course content will address environmental factors that affect human and ecological health and environmental health education and promotion strategies.

HHE 446. Health Disparities. 3 sem. hrs.
This course is designed to explore health disparities in the United States and throughout the world. Course content will address societal factors that have an impact on health disparities. The course focus will also address cultural competency and appropriate health education and promotion strategies.

HHE 467. Design Eval Health Promo. 3 sem. hrs.
Designed to help health educators develop competencies in program design, implementation, and evaluation.
Prerequisite(s): HHE 370.

HHE 468. Pract Appl Health Comm & Promo. 3 sem. hrs.
A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.
Prerequisite(s): HHE 370.

HHE 480. Culminating Experience in Health Education and Promotion. 3 sem. hrs.
The purpose of this course is to provide students with an opportunity to apply health education and promotion competencies developed through their undergraduate course experiences. The course will include observations, application, and reflection of professional practice in a community/public health education program.
Prerequisite(s): HHE 370 and HHE 467 and HHE 468.

HHE 488. Internship Communty Hlth. 1-12 sem. hr.
Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.

HHE 496. Independent Study. 1-6 sem. hr.
Designed to provide the opportunity for independent work in any area of health education/health promotion.

Human Development and Family Studies (HD) Courses

HD 101. Life Span Human Development. 3 sem. hrs.
An introductory survey of basic principles of human development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial development.HD 101 counts toward the Social and Behavioral Sciences requirement of the UA Core.

HD 155. Freshman Seminar. 3 sem. hrs.

HD 202. Child Dev-Infancy/Todlr. 3 sem. hrs.
The growth and development of the child from conception to three years of age are studied. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week.

HD 203. Medical Terminology. 2 sem. hrs.
A study of medical language by exploring the structure, meaning and usage of terms frequently utilized in health care settings. A basic summary of the body systems is included.
Prerequisite(s): BSC 109 or BSC 114 or BSC 118 and BSC 115.

HD 205. Child Dev-Preschool. 3 sem. hrs.
Growth, development, and guidance of young children. Practical implications of research and major theoretical issues and observational techniques are addressed. The importance of play in fostering a broad range of developmental goals for children is stressed. Three lecture hours, one laboratory hour per week.

HD 210. Understanding Addiction. 3 sem. hrs.
This course is an examination of chemical addiction (e.g.drugs) and behavioral addiction (e.g.,gambling). Theories of addiction, treatment of addiction, and current research on addiction will be discussed.
Prerequisite(s): None.

HD 226. Introduction To Child Life. 3 sem. hrs.
Provides students with an introduction to the field of child life.

HD 262. Marriage And Family. 3 sem. hrs.
A study of marriage and family relationships from a combination of sociological and psychological perspectives.

HD 282. Intro to Pre-K Education. 3 sem. hrs.
Course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K Initiative. An overview of development, guidance, and curriculum planning will be included. Lab participation included.

HD 302. Child Dev-Adolescence. 3 sem. hrs.
Introduction to the theory of and research on development of children ages nine to eighteen. Special attention is given to major transitions in the cognitive, social, and moral domains, as well as to psychological effects of physical maturation. Influences of the family, the schools, and peer relations on adolescent development are considered.

HD 321. Concp Creat Exper Young Child. 3 sem. hrs.
The principles underlying the selection, use, and value of experiences that appropriately foster concept development and creative expression in young children are examined. Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting.One-and-a half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205.

HD 322. Conc Creat Exper Yng Chld II. 3 sem. hrs.
Second in the sequence in which students examine the principles underlying the selection, use, and value of experiences that foster concept development and creative expression in young children.Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting. One-and-a-half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205 and HD 321.

HD 345. Addiction and the Family. 3 sem. hrs.
This course is an examination of the impact of substance abuse and addiction on the family as well as the influence of familial factors and family dynamics on addiction and the process of recovery.

HD 350. Treatment For Addictive Disorders. 3 sem. hrs.
This course will survey contemporary therapeutic approaches used to treat addictive disorders.

HD 382. Parent And Family Devt. 3 sem. hrs.
Explores the changing nature and dynamics of parent-child relationships. Implications for parent education programs and parenting strategies are included.

HD 399. Prior Learng Human Development. 1-30 sem. hr.

HD 401. Cult Influ Child Yth Fam. 3 sem. hrs.
This course is designed to understand race and ethnicity in its political, social and historical context. Since the culture in which we are raised as children and youth greatly influences our attitudes, beliefs, values and behaviors, it is important to gain an awareness of the cultural background of our own, as well as others' thoughts, feelings and acts. Writing proficiency within this discipline is required for a passing grade in this course. At the completion of this course, students should be able to recognize and appreciate the emotional and intellectual energies felt by a variety of subculture groups and be able to express this awareness through the written word.

HD 405. Policy Issues: Family and Addiction. 3 sem. hrs.
The impact of government policies on youth, adults, and families with addictions will be the focus of this course. The course will examine the intersection of addictions and crime, while exploring the policies and practices of specialty courts such as Juvenile Court, Family Court, Drug Courts and others. In addition, the students will review the current state of the family,family trends, and the implications for family policy. The varied effects that policies and programs can have on different types of families and different aspects of family functioning will be explored. The process of policy formation, implementation, evaluation and advocacy will be reviewed. Finally we will examine current economic and political forces that influence federal and state governments in development and implementation of key areas of legislation, and the impact of such policy on citizens and their families.
Prerequisite(s): None.

HD 412. Adult Development. 3 sem. hrs.
Theories of and research on social, emotional, cognitive, and physical development throughout adulthood: young adulthood, middle adult years, and older adult years. Writing proficiency within this discipline is required for a passing grade in this course.

HD 422. Admin Child Centers & Programs. 3 sem. hrs.
Children's centers and programs, including child development and child life programs, are examined and evaluated. Legislation, standards, program planning, and practical aspects of financing, administration, supervision, and management are explored. Writing proficiency within this discipline is required for a passing grade in this course.

HD 425. Adv Preschool Dev & Curriculum. 3 sem. hrs.
This course is designed for students to understand, design, implement and evaluate appropriate curricular practices for preschool children. Developmental theories and current issues in early childhood education are examined.

HD 426. Hospitalized Child Youth. 3 sem. hrs.
Examination of the theoretical basis of the psychosocial care of children, youth, and families in health care settings. The etiology of childhood illness and disease, clinical procedures, communication techniques, and research literature are studied from a developmental perspective. 45 practicum hours are required.

HD 451. Loss And Bereavement. 3 sem. hrs.
Designed to give child life students opportunities for in-depth study of issues of grief and bereavement as they impact children and families. An emphasis is placed on theories of grief resolution and applications in health care settings. The class is conducted in a seminar format with out-of-class placements.

HD 462. Interpersonal Relationships. 3 sem. hrs.
The course examines the dynamics of interpersonal interaction related to the development and maintenance of relationships. Current issues and problems are explored and related to marital and family system characteristics.

HD 472. Program Evaluation. 3 sem. hrs.
Examines the principles and methods by which programs for children and families are empirically evaluated.

HD 475. Human Sexuality Sex Education. 3 sem. hrs.
Current scientific knowledge of physiological, sociological, and psychological factors influencing sexual development and relations.

HD 480. Children And Divorce. 3 sem. hrs.
Examines the effects of divorce on children's cognitive and social-personality development.
Prerequisite(s): HD 101 or HD 262.

HD 483. Methods of Family Life Education. 3 sem. hrs.
Provides opportunities to plan, implement, and evaluate family life education programs. Standards and criteria leading to certified family life educator are overviewed. Professional responsibilities and ethics are emphasized.
Prerequisite(s): HD 382.

HD 488. Senior Seminar. 2 sem. hrs.
Examines the theory and philosophy of programs for families and children. Issues of professional identity and ethics are also discussed.

HD 491. Direct Individ Study-Hd. 1-6 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 492. Dir Ind Study Fam Rel. 1-3 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 493. Directed Research. 1-6 sem. hr.

HD 495. Early Childhood Devel Intern. 6-12 sem. hrs.
Internship experience for students in the early childhood development concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322.

HD 496. Child Life Internship. 12 sem. hrs.
Internship experience for students in the child life concentration only.2.5 GPA in HD coursework, fully executed HDFS Application for Internship form and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322 and HD 426.

HD 497. Family Studies Internship. 6-12 sem. hrs.
Internship experience for students in family studies concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor. Most internship opportunities require a 2.5 GPA.
Prerequisite(s): HD 483.

HD 498. Adolescent Youth Devel Intern. 6-12 sem. hrs.
Internship experience for students in the adolescent and youth development concentration only.2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 302.

Human Environmental Sciences (HES) Courses

HES 100. Freshman Compass Human Env Sci. 3 sem. hrs.
Designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills.

HES 103. Distance Compass HES. 3 sem. hrs.
This course is open to incoming CHES distance learning students and provides an introduction to the nature of higher education and a general orientation to the functions, resources, and activities of The University of Alabama. Students also receive an introduction to the careers within the scope of the family and consumer sciences profession.

HES 225. Mentoring. 3 sem. hrs.
Provides students who are interested in becoming one-on-one mentors for at-risk elementary and middle school students with knowledge and skills needed to be successful.

HES 250. Career Develop/Planning. 3 sem. hrs.
This elective course designed for freshmen and sophomores offers students opportunities to evaluate themselves, their abilities and interests, their personality characteristics, and their values, in order to begin forming career goals or to complete goals already set. This course will provide students with information on occupational characteristics, the career decision-making process, current issues in the career world, developing employability, job readiness, and job search techniques.

HES 275. Leadership Develop Thru Serv. 3 sem. hrs.
Encourages volunteerism as a way to develop leadership skills and a sense of responsibility to one's community as advocates for service. Students are provided with a list of nonprofit service agencies in Tuscaloosa, from which they may choose. Students may submit alternative sites for approval by the instructor. Students must provide their own transportation to the volunteer site.

HES 310. Issues Human Envir Sciences. 3 sem. hrs.
History and philosophy of human environmental sciences; present and future societal issues and their implications for the profession and professional procedures.

HES 390. Practicum Human Envir Sciences. 3-6 sem. hrs.
Provides students with an opportunity to apply classroom knowledge in a work setting appropriate with career goals.

HES 399. Prior Learning In Hes. 0-30 sem. hrs.
Prior Learning in HES.

HES 430. Managing in a High Performance Organization. 3 sem. hrs.
This course will provide an interactive exploration of management skills that enable an individual to effectively communicate, build and lead teams, delegate, make presentations and manage priorities to achieve success.

HES 450. Volunteer & Civic Respon. 1-3 sem. hr.
Study of the importance of volunteerism to nonprofit organizations. Students will gain practical experience working with one or more nonprofit organizations.

HES 452. Trends & Issues. 3 sem. hrs.
Course developed for sport professionals to gain knowledge and understanding of contemporary trends and issues in sport management.

HES 459. Management Strategies. 3 sem. hrs.
Indepth analysis for sport professionals to study and review management and leadership strategies in various sport organizations.

HES 460. Sport Management. 3 sem. hrs.
This course is designed for sport professionals desiring to increase their knowledge and understanding of management issues in their job settings and professional careers. This course will review the following issues: sport management; scope and career opportunities; organizational theory; human resource management; ethics; risk management; sport governance; managing sport facilities; marketing; sport licensing; economics; accounting and budgeting; financing sport; and tourism.

HES 485. Self-managed Mentoring. 3 sem. hrs.
This web-based course explores self-development of the individual and mentoring as a part of leadership development. Writing proficiency within this discipline is required for a passing grade in this course.

HES 490. Indiv Stdy Human Envir Science. 1-6 sem. hr.
Individual study in an area of human environmental studies.

Human Nutrition and Hospitality Management (NHM) Courses

NHM 101. Intro Human Nutrition. 3 sem. hrs.
Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

NHM 105. Personal Nutrition. 3 sem. hrs.
Discussion and application of nutrition as it relates to personal health.

NHM 195. Intro Dietetics Nutritn. 1 sem. hr.
An overview of the professions in nutrition and dietetics. Course includes guest speakers and lectures.

NHM 201. Nutrition In Life Cycle. 3 sem. hrs.
Application of principles of basic nutrition to each stage of the life cycle. Emphasis is on the relationship of nutrition to growth, development, and health.
Prerequisite(s): NHM 101.

NHM 210. Dynamics Weight Control. 3 sem. hrs.
Analysis of interaction of nutrition and exercise in weight control. Techniques for measuring energy needs, estimating body composition, applying nutrition principles to weight control, and evaluating popular diet and exercise programs.

NHM 250. Principles of Food Preparation. 3 sem. hrs.
Principles of Food Preparation as they relate to food quality and acceptability. Restricted to RHM and NHM minors.

NHM 253. Food Science. 3 sem. hrs.
Relation of food composition and structure to food preparation. One lecture, two laboratories.

NHM 305. Vegetarian Nutrition. 3 sem. hrs.
This course will provide students with an introduction to vegetarian nutrition, including background information on general nutrition. This course will also cover a vegetarian diet's role in disease prevention, courses of plant-based nutrients, vegetarian diets throughout the life cycle, food policy and how to implement vegetarian diets into different areas of dietetic practice.

NHM 315. Nutrition For Performance. 3 sem. hrs.
This course is designed to address nutrition issues related to exercise and athletic performance.
Prerequisite(s): NHM 101.

NHM 320. Food in Film. 3 sem. hrs.
This course begins as an introduction to the portrayal of food and nutrition culture in film media and goes on to explore the dynamic interaction of shifting food and nutrition values with evolving media production trends. Film media explored includes television, movies, documentaries and news.

NHM 340. Community Nutrition. 3 sem. hrs.
Nutrition assessment of individuals and groups; provision of nutrition services in the community. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 361. Nutritional Biochemistry. 3 sem. hrs.
Intermediary metabolism of carbohydrates, fat, and protein with emphasis on homeostatic regulation in health and disease.
Prerequisite(s): CH 105 or CH 231.

NHM 362. Nutrition At Cell Level. 3 sem. hrs.
Physiological and chemical basis of nutrient needs.
Prerequisite(s): NHM 361.

NHM 363. Applied Nutrition. 3 sem. hrs.
Principles of nutrition assessment, including interviewing and nutrition care plans. Application of principles to selected stages of the life cycle.
Prerequisite(s): NHM 201 and BSC 215 and BSC 216.

NHM 365. Med Nutr Therapy I. 3 sem. hrs.
Study of pathophysiology and medical nutrition therapy for specific disease conditions.
Prerequisite(s): BSC 215 and BSC 216 and NHM 361 and NHM 363.

NHM 366. Supv Pract Med Nutr Therapy I. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 365 coursework.
Prerequisite(s): NHM 365.

NHM 372. Intro Food Service Mgt. 3 sem. hrs.
Course includes theories, functions, and principles of management and tools for decision making. Offered in the fall semester.

NHM 373. Purchsg Design Risk Mgt Food S. 3 sem. hrs.
Principles, methods, and techniques used in purchasing food and equipment. Analysis of layout and design and of techniques used in evaluating work flow. Principles and techniques used in managing sanitation, safety, and security functions in food service.

NHM 374. Quant Food Prod & Servc. 3 sem. hrs.
Theory and techniques of quantity food production and service. Application of theory through hands-on experience.
Prerequisite(s): NHM 253.

NHM 390. Pract Food Service Mgt I. 3 sem. hrs.
This directed individual study is designed to bridge the gap between the student's quantity foods laboratory course and the senior food service management supervised practice. Students will be placed in commercial health-care food service operations.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 395. Intro Research Food Nutr. 1 sem. hr.
Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the American Dietetics Association Web site. Student membership in the American Dietetic Association is a requirement of this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 401. Nutrition Health Profesn. 3 sem. hrs.
Covers the practical application of principles of normal nutrition (including the nutritive value of foods) and introduces nutrition for persons with health problems. Primarily for students pursuing careers in health care.

NHM 441. Nutrition Education. 2 sem. hrs.
Focuses on developing competency in learning-system design, with special emphasis on teaching nutrition in various settings.
Prerequisite(s): NHM 101 and NHM 201.

NHM 442. Nutrition Care Process. 1 sem. hr.
Focuses on developing competency in nutrition counseling.
Prerequisite(s): NHM 101 and NHM 201
Prerequisite(s) with concurrency: NHM 363.

NHM 454. Experimental & Functional Food Science. 3 sem. hrs.
Chemical and physical properties affecting food product development. Introduction to functional foods with additional value beyond basic nutrition. Writing proficiency required for passing grade in this course. Offered in Fall and Spring semesters. Two lectures per week with labs embedded within lectures.
Prerequisite(s): NHM 101 and NHM 253 and CH 105.

NHM 457. Childhood Obesity. 3 sem. hrs.
Focuses on the physiological, genetic, environmental, and behavioral factors that predispose children and adolescents to obesity; explores the clinical and public health strategies for treatment and prevention.

NHM 464. Superv Pract Commun Nutr. 1 sem. hr.
Experiences that include nutrition assessment and counseling and delivery of nutrition services in the community.

NHM 465. Medical Nutrition Therapy II. 3 sem. hrs.
Continuation of NHM 365. Basic principles of enteral and parenteral nutrition support, as well as advanced medical nutrition therapy for critical care.
Prerequisite(s): NHM 365.

NHM 466. Sup Pract Med Nutr Therapy II. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 465 coursework.

NHM 467. Supervised Practice in Long-term Care. 3 sem. hrs.
Supervised clinical dietetics experience in the long-term care setting.
Prerequisite(s): NHM 365 and NHM 366 and NHM 465 and NHM 566.

NHM 468. Practicum Nutrition Food Servi. 1-5 sem. hr.
Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM 475. Mgt Food Service Systems. 3 sem. hrs.
Through lectures and class discussions, the theory, functions, and principles of management are applied. Emphasis is on personnel and financial management, problem solving, decision making, and systems analysis.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 476. Pract Food Serv Mgt II. 2 sem. hrs.
Supervised practice in an institutional food service setting applying NHM 475 coursework.

NHM 485. Sup Prac in Dic Mgmt. 3 sem. hrs.
Conduct a research project using appropriate research methods, ethical procedures and statistical analysis to culminate in the execution of a program for a target population. Develop and implement a curriculum, adhere to budget constraints and implement a marketing plan, utilizing web based messages and social media.
Prerequisite(s): NHM 366 and NHM 390 and NHM 464 and NHM 466.

NHM 490. Directed Individual Study. 1-6 sem. hr.
Individual study in nutrition or food service management.

NHM 491. Directed Professional Study. 3 sem. hrs.
Individual professional study in management, clinical, or community dietetics. Requirement of 160 clock hours spent in assigned site. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): NHM 365.

NHM 492. Prepare Dietetic Internship. 1 sem. hr.
To provide students in the DPD program who are seeking a Verification Satement with the knowledge to be successful in applying for a dietetic internship upon graduation.

NHM 499. Undergraduate Research. 1-6 sem. hr.
Under faculty supervision, the student designs an investigation; collects and analyzes data; and prepares a written report and seminar on the research project.

Restaurant, Hotel and Meetings Management (RHM) Courses

RHM 105. Nutrition for Hospitality Man. 3 sem. hrs.
Lecture and discussion introducing students to nutrition principles to evaluate and modify menus and recipes, as well as respond knowledgably to customers questions and needs.
Prerequisite(s): RHM 175.

RHM 175. Intro Hotel Restaurant Hosp Mg. 3 sem. hrs.
Introduction to the theory, functions, and principles of management in the restaurant, food service, and lodging industry. Examination of basic operational systems and problems related to the industry.

RHM 180. Effective Hospitality Communcn. 1 sem. hr.

RHM 185. Intro Meetings Events Ind. 3 sem. hrs.
Introduction to the structure, stakeholders and principles of management in the meetings and events industry. Examination of basic planning and production elements for meetings and events.

RHM 241. Mgt Of Food/Beverage Operation. 3 sem. hrs.
Course focuses on how to profitably manage a food service operation in order to satisfy guests. Students learn how to give guests the highest priority as the details of food and beverage operations are planned, implemented, and evaluated.

RHM 251. Hospitality Employee Suprv/Mgt. 3 sem. hrs.
Focuses on information managers need in order to recruit, select, and train employees; increase productivity; control labor costs; effectively communicate; manage conflict and change; and use time management techniques.

RHM 284. International Food Safety. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety and security functions in food service operations. Explore food safety issues like nanotechnology, emerging packagin, irradiation, food recalls, international food safety, food terrorism and genetically modified foods.
Prerequisite(s): RHM 175.

RHM 285. Food Safety And Risk Managemen. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety, and security functions in food service and lodging operations. Outlines sanitation and risk management programs that help hospitality operations provide quality products and services, comply with regulations, and improve the bottom line.

RHM 286. Prof Develp Hospitality Manage. 1-3 sem. hr.
Provides students with new and diverse experiences to increase their understanding of the restaurant, hotel and meetings management program. Class discussions, assigned readings, lectures, tours, and presentations by RHM faculty.

RHM 290. Food and Beverage Trends. 3 sem. hrs.
ServSafe Alcohol Certification course and tests are administered. Students are exposed to food and beverage trends at the Annual National Restaurant Association Show.
Prerequisite(s): RHM 175.

RHM 300. Event Plan Wedding Coordinator. 3 sem. hrs.
This course reviews the interdependent functions of event planning for weddings. Students will learn about the decisions, problems and concerns of planning effective wedding events. They will design, plan and execute a wedding from start to finish.

RHM 303. Mgn Quality In Hosp Industry. 3 sem. hrs.
Designed to acquaint students with quality and leadership issues facing today's hospitality industry. Students learn the principles of the Malcolm Baldridge National Quality Award, the concepts of continuous improvement, quality service, power and empowerment, communication skills, goal setting, teams, diversity, and managing organizational change. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 313. Contemporary Club Management. 3 sem. hrs.
Introduces students to the unique world of private club management. Focus on issues club managers face on a daily basis.

RHM 321. Tourism & Hospitality Industry. 3 sem. hrs.
Explores the broad range of factors that influence and affect tourism. Includes research and marketing methods.

RHM 322. Cruise Tourism. 3 sem. hrs.
Exploration & evaluation of the North American Cruise Industry to incude vacation cruising, economics, life aboard for passengers and crew, analysis of marketing campaigns and internet resources.
Prerequisite(s): RHM 175.

RHM 325. Lodging Operations & Managemnt. 3 sem. hrs.
Systematic approach to front-office and housekeeping management procedures. Emphasis is on reservations, billing and collection, housekeeping, and maintenance operations.
Prerequisite(s): RHM 175.

RHM 332. Front Office Management. 3 sem. hrs.
Introduces concepts of front-office management that affect other operating departments. Discusses techniques in managing the front office to ensure operational goals are attained.

RHM 345. Operations Mgt Gaming Ind. 3 sem. hrs.
RHM 175 or permission of instructor This course is designed to increase the understanding of the casino industry through visits to casino operations, hotels, and restaurants located with casinos. The course includes class discussions, assigned readings, lecture tours, and presentations by leading casino executives.
Prerequisite(s): RHM 175.

RHM 355. Hospitality Industry Training. 3 sem. hrs.
Student learns how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help the hospitality organization attain its operational goals and objectives.

RHM 356. Human Resources Management. 3 sem. hrs.
Explains how to meet the requirements of various labor laws, to include the Americans with Disabilities Act (ADA), as well as other employment and workplace laws. Explores strategies for attracting a wide range of applicants, minimizing turnover, and reducing productivity losses.

RHM 370. Event Marketing. 3 sem. hrs.
Students learn how to market to the Event Target Audience; anticipate client needs; and understand the event business and its unique value position and differentiation.
Prerequisite(s): RHM 175.

RHM 375. Managing Catering Operations. 3 sem. hrs.
Theory and techniques of professional catering with hands-on activities involved with the planning, organizing, and implementation of special catered events.

RHM 377. Restaurant Management & Servic. 3 sem. hrs.
Principles and methods of producing and serving quality food in restaurants. Writing proficiency is required for a passing grade in this course. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 380. Convention Trade Show Manageme. 3 sem. hrs.
A comprehensive analysis of trade shows. Emphasis is on organizing, arranging, and operating trade shows and conventions. Visits to trade shows are required.

RHM 385. Event Lead. Prog, Prob Solving. 4 sem. hrs.
Students gain knowledge, skills and experience in planning, executing, evaluating and problem solving with a variety of events on the UA campus. Students work with a minimum 10 hours per week with the University Union.

RHM 387. Hotel/Motel Security Managemen. 3 sem. hrs.
Exploration of security issues, concerns and practices affecting hospitality properties. Covers the physical security of the property asset protection, guest protection, security equipment, emergency management and procedures, and OSHA requirements.

RHM 390. Great Hotels of AL. 3 sem. hrs.
Students increase their understanding of the hotel industry through visits to Great Hotels in Alabama. Course includes class discussion, lecture tours, and presentations by leading hotel executives.

RHM 399. Prior Learning Restaur Hosp Mg. 1-30 sem. hr.

RHM 420. Hospitality Marketing. 3 sem. hrs.
Students learn how to create a sales team with creative, successful sales and marketing programs. Includes discussion on ways to sell rooms and food and beverage services to business and leisure travelers, travel agents, and meeting planners. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): RHM 175.

RHM 421. Hospitality Law. 3 sem. hrs.
Students gain an understanding of potential legal problems and how important legal considerations can affect the hospitality industry. Legal cases related to the hospitality industry are explored.

RHM 425. Risk Management for Meetings & Events. 3 sem. hrs.
A study of risk, crisis, and liability issues that may arise in the planning and management of meetings and events. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): RHM 175 or RHM 185.

RHM 446. Hospitality Purchasing. 3 sem. hrs.
Students learn how to purchase major commodities and nonfood supplies, ensuring price and product quality. Course explains how to deal effectively with suppliers and includes the managerial aspects of purchasing.

RHM 448. Bar And Beverage Management. 3 sem. hrs.
Discussion on strategies to profitably manage the bar and beverage department of the hospitality operation. Covers control systems, hiring and training, responsible alcohol service, and essential information on a wide range of beverage products.

RHM 450. Issues Hotel & Lodg. Mgmt. 3 sem. hrs.
Prerequisite(s): RHM 175.

RHM 465. Food And Beverage Controls. 3 sem. hrs.

RHM 468. Practicum In Hospitality Mgt. 1-2 sem. hr.
Students explore a variety of issues of importance to the effective management of hospitality organizations. Topics vary according to needs of students and issues facing the hospitality industry.

RHM 469. Internship Hospitality Managem. 1 sem. hr.
A semester of work experience in an approved hospitality organization for a minimum of 600 hours. Students work full-time during the semester to gain insight into hospitality management responsibilities.
Prerequisite(s): RHM 175.

RHM 474. Mangr Acct Hospitality Industr. 3 sem. hrs.
Students learn how to make effective managerial, business, and operational decisions based on a thorough understanding of financial statements; identify costs; develop realistic budgets; forecast; and plan cash flow.
Prerequisite(s): RHM 175 and AC 210.

RHM 478. Mgt Service Food Bev Operation. 3 sem. hrs.
Explores requirements in planning for and managing different types of food and beverage operations.

RHM 479. Convention Management & Servic. 3 sem. hrs.
An exploration of techniques used to increase a hospitality property's convention and meeting business through marketing and service. Students learn how to address meeting planners' needs and concerns confidentially, creatively and effectively.

RHM 480. Adv Meeting & Convention Mgt. 3 sem. hrs.
Reviews the interdependent functions of meetings and convention management. The student develops and executes a professional meeting.

RHM 485. Foundations Seminar. 3 sem. hrs.
Seminar designed for students accepted in the executive restaurant and hospitality management (ExRHM) program.

RHM 488. Individual Seminar Projects. 3-12 sem. hrs.
Individual projects designed by students to implement concepts and strategies learned in executive seminars. Project plans must be approved by RHM faculty prior to implementation.

RHM 490. Directed Individual Study. 1-6 sem. hr.

RHM 495. Capstone Senior Project. 12 sem. hrs.
A required major learning experience for ExRHM students. Project is designed by the student to include research, analysis, and synthesis of a particular topic related to hospitality industry operations. Project must be approved by RHM faculty prior to implementation.
Prerequisite(s): RHM 485.

RHM 496. RHM Senior Capstone Seminar. 1 sem. hr.
Discussion of current issues in the hotel, restaurant, and convention industries.
Prerequisite(s): RHM 175.

Capstone College of Nursing

The Capstone College of Nursing (CCN) awards the degree of Bachelor of Science in Nursing (BSN).

Licensure

Upon completion of the program, students meet the educational qualifications of the Alabama Board of Nursing for taking the National Council Licensure Examination for Registered Nurses. Completion of the academic program in no way assures the student of licensure. No employee, agent or representative of the University is authorized or empowered to provide such assurances either directly or by implication.

BSN Degree

The degree of Bachelor of Science in Nursing requires the completion of the courses designated in the following program of study. Elective hours may be used to complete a major portion of the University Core Curriculum; additional courses, however, may be required. Students may choose to enroll in summer session(s) to meet requirements and to adjust the program of study to meet individual needs. Students should also review core curriculum requirements in the Academic Records and General Academic Policies section of this catalog. Bold letters indicate courses that meet specific University core curriculum requirements. Clinical nursing courses are not taught in summer sessions.

NOTE: The Capstone College of Nursing reserves the right to make modifications in its program and policies as necessary, but every effort will be made to implement the general program for full-time students.

Minors

A student may pursue a minor in any area that has a University-approved minor program and is approved by the ONSS. Consult the departmental listings in this catalog for specific requirements of minor programs.

Application for Degree

An online application for a degree must be completed the semester in which the student will complete all requirements for the BSN degree. The degree application may be accessed through a student's myBama account.

Admission Requirements

Admission to Lower Division

Students are admitted to the Capstone College of Nursing when they meet University of Alabama admission requirements. Students are encouraged to acquaint themselves with general academic regulations of the University, as stated under the Admissions section of this catalog. Transfer students are encouraged to seek advisement from the Capstone College of Nursing Office of Nursing Student Services. Knowledge of policies and procedures is the student's responsibility. Detailed policies and procedures are contained in the Capstone College of Nursing student handbook, which is available at http://nursing.ua.edu/start_page.htm. Students are notified of any policy changes. It is the student's responsibility to abide by the most recently published or posted policies and procedures. An official, current copy of the handbook is available in the office of the Assistant Dean of Undergraduate Programs.

Promotion to Upper Division

Application forms for promotion to the upper division may be obtained online at nursing.ua.edu. It is the student's responsibility to secure an application and submit it by the deadline. Applicants for the upper division must have been admitted to The University of Alabama prior to submitting an application for upper division.

Promotion Policies

To progress to the professional component of the nursing curriculum, a student must possess a functional level of capability to perform the duties required of a professional nurse. These abilities include, but are not limited to:

- adequate vision such as that required to observe changes in physical conditions, to read small print on labels and laboratory reports, and to discern subtle changes in color
- adequate hearing such as that required to distinguish muted sounds through a stethoscope
- fine motor skills and manual dexterity such as those required to handle small, delicate equipment
- strength such as that required to turn and assist with lifting adults and to lift and carry children
- the mobility to respond quickly to emergency situations
- the ability to engage in two-way conversations and interact effectively with others orally and in writing
- the ability to detect odors
- the ability to consistently and dependably engage in critical thinking to make safe and ethical clinical judgments

The faculty of the Capstone College of Nursing has identified the skills and professional behaviors that are essential for the pursuit of a course of study to be eligible to take the National Council Licensure Examination–RN and to practice as a professional nurse. These skills include, but are not limited to, the skills presented in The Essentials of Baccalaureate Education for Professional Nursing Practice, a publication of the American Association of Colleges of Nursing. If these skills and professional behaviors cannot be developed by the student, either unassisted or with the dependable use of assistive devices, the faculty reserves the right to disenroll the student from clinical courses. A copy of The Essentials of Baccalaureate Education for Professional Nursing Practice is available upon request from the college's Office of Academic Programs.

Promotion to the upper division requires successful completion of the lower-division courses designated on the Capstone College of Nursing BSN program of study. Students may apply and be considered for promotion to the upper division during the final lower-division semester if they will have completed all courses prior to the semester for which application to the upper division is made. In such instances, promotion to the upper division may be granted conditionally, pending successful completion of all courses required for promotion. Promotion to the upper division may be withdrawn if the level of academic performance is significantly lower in those courses completed after conditional promotion.

Only those applicants whose grade point averages are at least 3.0 for the required courses in the lower division and whose GPAs are at least 2.75 for the required science courses are eligible to apply for promotion. Meeting minimum requirements does not guarantee promotion to the upper division of the nursing curriculum.

Spaces in the upper division are limited. When the number of students seeking promotion to the upper division exceeds the number of spaces available, the most qualified applicants will be promoted. Those applicants who present the strongest academic records and who show the most promise for success in the upper division will be promoted. Native UA students are defined as those who have completed 32 or more hours of the required lower-division coursework at UA or through Advanced Placement (AP) or Dual Enrollment courses completed in high school.

Transfer students are defined as those students who have completed less than 32 hours of the required lower-division coursework at The University of Alabama. A transfer student may be accepted into the upper division when the academic record, taken as a whole, presents evidence of outstanding academic performance and a strong likelihood of success in the upper division.

Students requesting a transfer to the upper division of the nursing program from another BSN program must follow the promotion policies above.

The Capstone College of Nursing does not accept nursing courses from another BSN program. The number of students promoted each semester is dependent upon available resources; promotion to upper division is competitive. Applications and deadlines for promotion to the upper division may be obtained online at nursing.ua.edu.

Upon progression to the upper division, permission to depart from the clinical sequence must be obtained from the assistant dean of Undergraduate Programs. Because of the limitations in clinical course spaces, departure from the sequence for any reason may significantly lengthen the time for program completion.

Withdrawal from the First Clinical Nursing Course

Any student who withdraws from or does not successfully complete the first clinical nursing course in the upper division must contact the assistant dean of Undergraduate Programs to be considered for placement in the course the next semester. The student will be placed in the course on a space-available basis only. Before considering placement of any students who have not succeeded in the course, preference for spaces will be given to those applicants who meet all promotion criteria and who have not previously been promoted. If space becomes available for a student's reassignment to the course, a second unsuccessful attempt by that student in any other clinical course will result in academic suspension from the Capstone College of Nursing.

Return to the Undergraduate Nursing Program after a Nonacademic Leave of Absence

Following a nonacademic leave of absence (e.g., military, medical or other) from the Capstone College of Nursing for six or more months, a student's academic record and time elapsed since completing clinical nursing courses will be reviewed by the

assistant dean of Undergraduate Programs to facilitate the student's readiness to re-enter the program.

Individualized plans will be negotiated with the student to facilitate a smooth transition into the program and may include knowledge-refresher activities, either informal or formalized independent study.

Components of the refresher plan may include, but are not limited to, the following:

- review of medication calculations and completion of a medication-calculation exam
- review of health-assessment materials such as videotapes
- review of appropriate charting and documentation methods
- practice with medication administration such as PO, IM and IV
- practice with skills such as foley catheter insertion, NG tubes, suctioning, sterile dressing changes, injections and IV insertion
- review of content from an NCLEX Review book of content areas previously completed

This option is offered to facilitate the student's successful re-entry into the BSN program. The student assumes responsibility for his or her learning and is encouraged to seek needed assistance.

Degree Requirements

Standards of Conduct

The nursing student shall comply with legal, moral and legislative standards that determine unacceptable behavior of the nurse and that may be cause for denial of a license to practice as a registered nurse in accordance with the Alabama law regulating practice of registered and practical nursing stated below.

The board shall have the power to deny, revoke or suspend any license issued by it or to otherwise discipline a licensee upon proof that he or she is guilty of fraud or deceit in procuring or attempting to procure a license; has been convicted of a felony; is guilty of a crime involving moral turpitude or of gross immorality that would tend to bring reproach upon the nursing profession; is unfit or incompetent due to personal habits; is habitually intemperate due to the use of alcohol or is addicted to the use of habit-forming drugs to such an extent as to render him or her unsafe or unreliable as a licensee; has been convicted of any violation of a federal or state law relating to controlled substances; is mentally incompetent; is guilty of unprofessional conduct of a character likely to deceive, defraud or injure the public in matters pertaining to health; or has willfully or repeatedly violated any of the provisions of this article as defined by board rules and regulations. (Alabama Board of Nursing Administrative Code, September 1997)

Failure to comply with any of the above stipulations while in the nursing program constitutes grounds for dismissal from the program.

It is important for nursing students to know about the Alabama Board of Nursing's regulations governing review of candidates for initial and continuing licensure eligibility. There will be questions on the application to take the examination for licensure as a registered nurse that ask, "Have you ever been arrested for or convicted of a criminal offense?" and, "Have you ever been arrested for or convicted of driving under the influence of drugs/alcohol?" Application to take the examination may be denied on the basis of this review. Although these policies apply specifically in Alabama, other states have similar stipulations for licensure.

Essential Skills and Behaviors

See the Promotion Policies section of this catalog under Admission Requirements to the Capstone College of Nursing.

Hours and Grade Points

The student must complete a minimum of 126 hours* of academic credit approved by the Capstone College of Nursing to meet the requirements for the degree of bachelor of science in nursing. Additional courses may be necessary for students to meet the University Core Curriculum requirements.

All coursework leading to the BSN degree, including electives, requires a minimum grade of C-.

*Any reference to hours indicates semester hours unless otherwise noted.

CPR Certification

Evidence of current certification as a professional-level provider of cardiopulmonary resuscitation (CPR) is required for registration in all clinical nursing courses. Students are responsible for obtaining and maintaining current CPR certification while enrolled in the Capstone College of Nursing. Certification must be renewed annually and verified through presentation of a CPR card to the Office of Nursing Student Services.

Verification of Health Status

A health form must be completed prior to matriculation in the upper division and prior to beginning senior-level courses if the student's health status has changed. The health form is available from the Capstone College of Nursing ONSS and must be completed by a licensed physician or a certified nurse practitioner. Students must also present documentation of immunization against hepatitis B and other specified communicable diseases prior to progressing to Semester II upper-division courses and prior to the beginning of the senior year.

Time Limit

If upper-division requirements for the degree have not been completed within five years after initial registration in the Capstone College of Nursing, the student's academic record will be reviewed to establish appropriate changes or requirements. Any student who has not enrolled in upper-division courses for more than one semester is required to seek approval from the assistant dean of Undergraduate Programs prior to registration to enroll in any subsequent courses. Approval may require repeating courses to ensure that knowledge is current.

Exit Exams

Students are required to make passing scores on all standardized exit exams given in the College. A student who fails to achieve a satisfactory score must complete a remediation program. Failure to satisfactorily complete the standardized program exit exam in the last semester of the program may delay the student's graduation from the BSN program.

Review Course

Each student is strongly encouraged to take a review course near the end of the BSN program in preparation for the National Council Licensure Examination (NCLEX).

Special Services, Programs and Educational Opportunities

Academic Advising

The academic adviser in the Office of Nursing Student Services assists students regarding academic matters. Students may make an appointment to meet with the academic adviser for academic matters at any time during the semester. Academic matters include course sequencing, withdrawals, dropping and adding courses, academic progression, registration, and academic problems. Faculty mentors are available to advise and mentor students regarding career goals and questions about the nursing field. Students may request a faculty mentor by submitting the faculty mentor request form available at nursing.ua.edu to the ONSS.

Preregistration Advising

Lower Division

Students must attend a preregistration advising session each semester to be cleared for registration unless the academic adviser has cleared them during that semester. A student who does not complete a designated advisement session during the scheduled period will be required to register during late registration and pay the associated fee. Information about advising and registration is provided at nursing.ua.edu.

Upper Division

Upper Division students participate in a preregistration group advising session facilitated by undergraduate faculty during the designated preregistration advising period in the fall and spring semesters. CCN provides specific information to upper-division students about clinical schedules.

There is no late registration for clinical nursing courses. If extenuating circumstances have made regular registration for clinical courses impossible, approval for late registration in these courses may be requested from the assistant dean of Undergraduate Programs.

Transfer Credit

Transfer credit is accepted if the lower division course content is deemed equivalent to that required in the curriculum of the College. Evaluation is based on course content, the grade earned and credit earned.

Successful completion of examinations available through the University Testing Services may satisfy certain general education requirements. See the Credit by Examination section of this catalog.

Credit Courses Taken in the College of Continuing Studies

Correspondence or Independent Study Courses

Selected general education courses required for the degree of Bachelor of Science in Nursing may be taken from the independent study program of the College of Continuing Studies with prior approval of the Director of Nursing Student Services (see the College of Continuing Studies section of this catalog for details of the independent study program.)

General Policies

Prerequisites

Many lower-division courses have specific prerequisites. See course descriptions for prerequisites or contact the Office of Nursing Student Services for detailed information.

Policies Governing Progression and Graduation

Upon promotion to the upper division, students progress to clinical nursing courses in the established sequence. If a student's progression is interrupted for any reason, it is the student's responsibility to contact the assistant dean of Undergraduate Programs to request consideration for reassignment. Because spaces in clinical courses are limited, any alteration of the usual progression may lengthen the student's program of study.

To be eligible for the degree of Bachelor of Science in Nursing, a candidate must show successful completion of the courses required in the nursing program of study and complete a minimum of 32 semester hours at The University of Alabama.

Academic Probation and Suspension

The general academic scholarship rules of the University apply to students enrolled in the Capstone College of Nursing; however, any written agreements entered into by students and the dean of the College take precedence over the University's general rule. See the Academic Records and General Academic Policies section of this catalog for further details.

Any student who receives a second D or F in any nursing course, or in any combination of nursing courses, will be academically suspended from the Capstone College of Nursing.

Readmission of Academically Suspended Students

After a lapse of one regular semester from the last date of enrollment, a student who has been suspended by the Capstone College of Nursing may apply for readmission through the office of the senior associate dean of Academic Programs. This application may be submitted immediately after notification of suspension. The application, the student's record of performance and other pertinent information submitted by the student will be reviewed, and a recommendation concerning the application for readmission will be made to the dean of the College. Students who are suspended a second time are placed on indefinite academic suspension.

Readmission Following Withdrawal

A student who has withdrawn from the upper division of the Capstone College of Nursing and who wishes to be readmitted after an absence of one semester or more must do the following:

1. Contact the assistant dean of Undergraduate Programs for information about the readmission process.
2. Contact Undergraduate Admissions to determine if an application for readmission is required. Permission to return to the Capstone College of Nursing will depend on the student's previous performance and the availability of space in the required nursing courses. Readmission may require repeating courses to ensure that knowledge is current.

Maximum Hours

A student may not exceed a course load of 18 semester hours except with the approval of the dean of the College.

Policy on Repeating Courses

A record of all courses attempted will appear on the student's transcript. If a grade below C- is received in any course required in the program of study, the course must be repeated on a space-available basis.

Pass/Fail Option

With special permission, a student may choose to receive a grade of Pass (P) or Fail (F) for a course instead of the conventional A, B, C, D or F. If a P is earned, the hours count, but the grade point average is not affected. If an F is earned, the GPA is reduced.

- Only elective courses may be taken as pass/fail.
- Courses used to meet University Core Curriculum requirements may not be taken on a pass/fail basis.
- Forms for the pass/fail option may be obtained from the College's ONSS.
- See the Academic Records and General Academic Policies section of this catalog for further details.

Administrative Withdrawal from Clinical Nursing Courses

Students' clinical experiences are considered a vital part of learning the practice of professional nursing and faculty guidance is available in facilitating these learning experiences. As students progress through the program of study, they are expected to increase their abilities to function independently and assume responsibility for their actions. When a student's clinical decision making is deemed by faculty to constitute unsafe or unethical nursing practice, or when there is lack of adherence to established policies and procedures related to professional conduct, the student will receive a failing grade in the course and will be withdrawn from the course and/or suspended from the program. Administrative withdrawal procedures are initiated by faculty through the office of the senior associate dean for Academic Programs. Further progression in the Capstone College of Nursing is determined according to the rules for academic probation and suspension and the availability of space.

Auditing Courses

Clinical nursing courses are not open to auditors.

Clinical Nursing Expenses

Standard University of Alabama tuition is charged for enrollment in clinical nursing courses. In addition to textbook expenses, clinical nursing students are responsible for the provision of uniforms and supplies for performance in the clinical area. Students are responsible for their own transportation to and from all clinical experiences. The expense of required liability insurance and standardized test fees is also the responsibility of the student. Detailed information on ordering uniforms and supplies will be furnished when students are promoted to the upper division of the nursing program.

In addition to standard University fees, a laboratory fee is assessed when students are enrolled in nursing courses. Costs for textbooks, physical-assessment equipment, mobile device (iPod Touch), mobile device software and other supplies for the first semester of upper-division work substantially exceed those of subsequent semesters.

Late Registration

There is no late registration for clinical nursing courses.

RN Mobility

Registered nurses who enroll at The University of Alabama may opt to pursue one of two tracks toward the completion of a higher degree or degrees. Students may enroll in either an RN to BSN or RN to BSN/MSN track. Both programs of study allow students to continue working and to complete the majority of required coursework online or by other means of distance education.

RN to BSN Track

The RN to BSN program of study is specifically designed for the registered nurse student to earn a bachelor's degree. The program consists of 52-58 semester hours of required lower-division coursework and 25 semester hours of upper-division coursework. Lower-division studies include courses that meet University Core Curriculum requirements for a bachelor's degree. All lower-division hours must be successfully completed prior to enrolling in upper-division courses. Upon admission to the University as an RN to BSN student, credit for 38 hours of NUR courses is awarded.

UA Lower-Division Requirements		Hours
BSC 215 & BSC 216	Human Anatomy & Physiology I and Human Anatomy & Physiology II	8
BSC 242	Microbiology And Man	4
CH 104	Introductory Chemistry	4
CS 102	Microcomputer Applications	3
EN 101 & EN 102	English Composition and English Composition	6
HD 101	Life Span Human Development	3
MATH 110	Finite Mathematics	3
or higher		
PHL 223 or	Medical Ethics	3
PHL 292	Introduction to Ethics	

PY 101	Intro To Psychology	3
SOC 101 or	Intro To Sociology	3
ANT 102	Intro Cultural Anthropology	
One of the following Fine Art courses:		3
ARH 151	Intro To Visual Arts	
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
MUS 121	Intro To Listening	
NEW 212	Creativity	
TH 114	Intro To The Theatre	
TCF 112	Motion Pict Hy Criticism	
Literature and History [1]		9
One of the following Statistics courses:		3
BER 345	Educational Statistics	
PY 211	Elem Statistical Methods	
ST 260	Statistical Data Analysis	
Total Hours		55

[1] All students are required to complete a six-credit-hour sequence in either History or Literature. Students opting to enroll in the Literature sequence must also complete an approved three-credit History course. Students opting to enroll in the History sequence must also complete an approved three-credit Literature course. If students take two history courses and one literature course, one additional literature, humanities or fine arts course is required to satisfy the 12-hour humanities core requirement.

Required Nursing Courses

		Hours
NUR 319	Nrsg Informatics for RNs	3
NUR 329	Inq. Evidence Based Pract RNS	3
NUR 348	Role Tran in Baccalaureate Nur	4
NUR 449	Community Health For RNs *	5
NUR 455	Leadership & Management Roles *	5
NUR 465	Complex Client Sys RNs *	5
Total Hours		25

*Clinical course

NOTE: Each of the courses above requires time in addition to class meeting times (e.g., library work, clinical time, or meetings with faculty and student groups).

Promotion to Upper Division

The most qualified applicants will be selected each year for promotion to upper division for the RN to BSN track. The number of applicants promoted is dependent on the educational resources available to support this track. Every effort will be made to promote all applicants who meet the criteria. The application for promotion is due in the Office of Nursing Student Services prior to each fall semester.

Promotion Criteria

To be eligible for promotion to the upper division, a registered nursing student must have the following:

- satisfactory completion of all lower-division requirements (grade of C- or higher)
- an overall grade point average of 2.5 on a 4.0 scale on the required lower-division courses
- an overall grade point average of 2.0 on all required science courses
- an unencumbered RN license in the state where clinical course requirements will be completed
- graduation from an NLN-AC accredited school of nursing

RN to BSN/MSN Track

The RN to BSN/MSN program of study is an accelerated option for the experienced, highly-qualified RN who holds an associate degree or diploma in nursing. RNs who meet MSN program admission criteria can apply for early admission to the Graduate School while completing the BSN requirements. The RN to BSN/MSN track decreases the time required to complete both the BSN and MSN degree programs. The program of study includes 6–8 semester hours of credit in each of the six semesters required of the track. The BSN degree is awarded after completion of all BSN requirements in the fourth semester. The MSN degree is awarded after completion of all MSN requirements. Two options are available for the RN to BSN/MSN student: nursing case manager or the clinical nurse leader.

Promotion to Upper Division

The most qualified applicants will be selected each year for promotion to upper division for the RN to BSN/MSN track. The number of applicants promoted is dependent on the educational resources available to support this track. Every effort will be made to promote all applicants who meet the criteria. The application for promotion is due in the Office of Nursing Student Services prior to each fall semester.

Promotion Criteria

To be eligible for promotion to the upper division, a registered nursing student must have the following:

- satisfactory completion of all lower-division requirements
- an overall grade point average of 3.0 on a 4.0 scale on the required lower-division courses
- an overall grade point average of 2.0 on all required science courses
- an unencumbered RN license in the state where clinical course requirements will be completed
- graduation from an NLN-AC accredited school of nursing.

Lower-Division Courses — RN to BSN/MSN Track

		Hours
BSC 215 & BSC 216	Human Anatomy & Physiology I and Human Anatomy & Physiology II	8
BSC 242	Microbiology And Man	4
CH 104	Introductory Chemistry	4
CS 102	Microcomputer Applications	3
EN 101 & EN 102	English Composition and English Composition	6
HD 101	Life Span Human Development	3
MATH 110	Finite Mathematics	3
or higher		
PHL 223 or	Medical Ethics	3
PHL 292	Introduction to Ethics	
PY 101	Intro To Psychology	3
SOC 101 or	Intro To Sociology	3
ANT 102	Intro Cultural Anthropology	
One of the following Fine Art courses:		3
ARH 151	Intro To Visual Arts	
ARH 252	Survey Of Art I	
ARH 253	Survey Of Art II	
ARH 254	Survey Of Art III	
MUS 121	Intro To Listening	
NEW 212	Creativity	
TH 114	Intro To The Theatre	
TCF 112	Motion Pict Hy Criticism	
Literature and History [1]		9
One of the following Statistics courses:		
BER 345	Educational Statistics	3
PY 211	Elem Statistical Methods	3
ST 260	Statistical Data Analysis	3
Total Hours		61

[1] All students are required to complete a six-credit-hour sequence in either History or Literature. Students opting to enroll in the Literature sequence must also complete an approved three-credit History course. Students opting to enroll in the History sequence must also complete an approved three-credit Literature course. If students take two history courses and one literature course, one additional literature, humanities or fine arts course is required to satisfy the 12-hour humanities core requirement.

Upper-Division and MSN Curriculum — RN to BSN/MSN Track

First Year			
Fall	**Hours Spring**	**Hours Summer**	**Hours**
NUR 319	3 NHM 580[1]	3 NUR 580[1]	3
NUR 348	4 CHS 520	3 NUR 505[1]	3
NUR 449	5 NUR 502	2	
	12	**8**	**6**

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
NUR 501		3 NUR 520 or 525		4 NUR 530 or 535	6
NUR 522[1]		3 NUR 595 or 521		3	
BSC 529[1]		3			
		9		**7**	**6**

Total Hours: 48

1 Courses count toward completion of BSN and MSN requirements.

Admission to Graduate School

By October 15 of the first fall of the program of study, students can apply for early, expedited admission to the MSN program, contingent on completion of the first semester of BSN coursework with a GPA of at least 3.0 and completion of all undergraduate core requirements.

Faculty

Administrative Officers

Sara E. Barger

Marsha H. Adams

Regina W. Bentley

Administrative and Professional Staff

Karl Hamner

Thomas Little

Pat McCullar

Karen Silliman

Janet Thompson

Priscilla Payne

Rebekah Welch

Shelley Jordan

Katara Wilson

Shelley Vold

Courses

NUR 102. Freshman Compass: Nursing. 1 sem. hr.
The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory).

NUR 104. Liv Learning Prof Nursing Prac. 2 sem. hrs.
This elective course focuses on awareness of education of nursing majors at The University of Alabama Capstone College of Nursing and the profession of nursing. Students have the opportunity to learn about The University of Alabama campus, the Capstone College of Nursing and the profession of nursing. Activities will be included to promote students' development of relationships with other nursing students and other students in Harris Hall. This course, which is known as a compass course, will point you in the right direction, much as a compass would. (Theory).

NUR 155. Freshman Seminar. 3 sem. hrs.
The purpose of this course is to provide the history, facts and trends of the evolution of HIV/AIDS. Particular emphasis will be given to the prevention and early detection of infection for college students. Students will have an opportunity to increase their knowledge and understanding of the disease and the impact it has had on individuals, special populations, and the world. Guest lecturers, videos, and community experiences will enhance this learning experience. (Theory).

NUR 305. Human Pathophysiology. 3 sem. hrs.
The purpose of this course is to introduce students to fundamental pathology of the human body. This course examines physiological change results in disruptive adaptive responses throughout the lifespan. These disruptive responses are approached in a systematic manner. A combination of identified cellular concepts and a body systems approach is utilized to structure course content. Included are basic cellular processes in human pathology, pathology associated with the major body systems, and physiology associated with the aging process. (Theory).

NUR 307. Medication Calculation. 1 sem. hr.
This course is designed to facilitate the students' development of those skills necessary to properly calculate medication dosages and to prepare the student for the Medication Calculation Mastery Exam. Emphasis is placed on those cognitive skills necessary to perform the calculations correctly. (Theory).

NUR 308. Conceptual Foundations Prof Nu. 3 sem. hrs.
This course focuses on concepts and issues relevant to professional nursing practice. Content related to the values of professional nursing and issues affecting practice will be examined. Students are introduced to concepts from the CCN philosophy and conceptual framework. Writing proficiency within this discipline is required for a passing grade in this course.

NUR 309. Nursing Informatics. 3 sem. hrs.
This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. Computing proficiency is required for a passing grade in this course.

NUR 312. Clinical Internship. 1-3 sem. hr.
An elective clinical course that focuses on the further refinement of clinical and leadership skills. Students taking more than one semester hour will contract with the clinical faculty member for additional assignments. (Laboratory).

NUR 317. Indep Study In Nursing. 1-10 sem. hr.
This course focuses on individual independent study of a selected topic under the sponsorship of a nursing faculty member with relevant expertise. Prior approval of proposal by faculty sponsor and associate dean required. Elective.

NUR 319. Nrsg Informatics for RNs. 3 sem. hrs.
This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. Theory. Computing proficiency is required for a passing grade in this course. Prerequisite(s): CS 102.

NUR 324. Fundmntl Prof Nursing Practice. 9 sem. hrs.
Integration of knowledge, theories, and skills from the humanities, arts, and sciences serves as the foundation for this introductory clinical course. Students will develop adult assessment skills including the health history, physical, psychosocial, and spiritual aspects necessary for critical thinking in professional nursing practice. The nursing process will be presented as a framework for critical thinking, decision making, and nursing practice. Levels of prevention will be introduced as a model for health care. (Theory and laboratory).

NUR 326. Pharmacology Nursing Practice. 3 sem. hrs.
The purpose of this course is to introduce the student to the role of pharmaceutical agents in assisting with the individual's adaptation to stressors. A brief history and a discussion of the legal controls that regulate the field of pharmacology are included. Drug prototypes are utilized to examine the major classifications of drugs. Included in each drug classification is a discussion of pharmacokinetics, therapeutic uses, adverse reactions, precautions and contraindications. The special considerations of groups of individuals who may be receiving drug therapy are also included. Health teaching and nursing implications for each drug classification are emphasized. (Theory).

NUR 328. Inq for Evi-Based Prac in Nurs. 3 sem. hrs.
This course introduces nursing students to key terminology, elements and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, articulation of the importance of research for improving practice and the health of society, and for advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency is required for a passing grade in this course. (Theory) Prerequisite(s): NUR 324 NUR 326.

NUR 329. Inq. Evidence Based Pract RNS. 3 sem. hrs.
This online course designed for registered nurses introduces key terminology, elements and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, articulation of the importance of research for improving practice and the health of society, and advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course. (Theory) Prerequisite(s): NUR 319 or NUR 309; and NUR 348.

NUR 345. Perioperative Nursing. 3 sem. hrs.
This elective course is designed to give students an opportunity to participate in multiple nursing roles in the perioperative environment. These activities are planned to enrich the student's knowledge and provide application of concepts relevant to operative and anesthesia standards of care.
Prerequisite(s): NUR 324.

NUR 348. Role Tran in Baccalaureate Nur. 4 sem. hrs.
This online theory course designed for registered nurse students is structured to provide the foundation for continuing development of the students' body of conceptual and practical knowledge essential for enacting the professional nursing roles. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course. (Theory)
Prerequisite(s) with concurrency: NUR 319.

NUR 350. Crit Think & Clin Judgment. 2 sem. hrs.
This course provides opportunities for students to gain skills and knowledge on advanced clinical problem solving and decision making.
Prerequisite(s): NUR 324 and NUR 326.

NUR 357. Health Care in Mexico. 3 sem. hrs.
The purpose of this Summer Study Abroad course is to expose students in various disciplines to health care across the lifespan in Mexico. The course will focus on Mexican health care concepts, health care delivery, and health policy.

NUR 372. Prof Nursing Practice-Adults. 8 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems in adults and to determine actions that will ameliorate or reduce the consequences of adult disease through support or rehabilitation. Clinical experiences are designed to develop skills for early detection, diagnosis, and treatment of acute and chronic health problems in adults and prevention of further disability. (Theory and laboratory).

NUR 374. Prof Nurs Pract Mental Health. 4 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems across the lifespan and to determine actions that will ameliorate or reduce the consequences of mental-health problems. Students will develop skills in detection, diagnosis, and treatment of mental health problems across the lifespan. These mental-health nursing skills are designed to improve the mental health of patients and to prevent further disability. (Theory and laboratory).

NUR 391. Emergency Room Nursing. 3 sem. hrs.
This elective course focuses on chronic emergent and urgent interventions in actual and potential health problems of adults. Clinical experiences are designed to improved mastery of nursing psychomotor skills.
Prerequisite(s): NUR 372.

NUR 418. Prof Nurs Pract Childbear Fami. 4 sem. hrs.
This course focuses on the role of the nurse in providing holistic care to the childbearing family. The student will be given simple to complex situations during class/clinical experiences in which to assist childbearing families to adapt. A major focus will be on the three levels of prevention in the implementation of nursing care to childbearing families who are experiencing a normal maturational process as well as related acute/chronic health problems. (Theory and laboratory).

NUR 420. Prof Nursing Practice-Children. 4 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems in children and to determine actions that will ameliorate or reduce the consequences of disease in children through support or rehabilitation. Students will develop skills in early detection and diagnosis of disease in children and treatment of acute and chronic health problems that will prevent further disability. (Theory and laboratory).

NUR 422. Prof Nursing Pract Comm Health. 4 sem. hrs.
This nursing course focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. (Theory and laboratory).

NUR 449. Community Health For RNs. 5 sem. hrs.
This online course designed for registered nurses focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. Theory and Laboratory.
Prerequisite(s): NUR 319 and NUR 348.

NUR 455. Leadership & Management Roles. 5 sem. hrs.
This online course designed for registered nurses focuses on leadership theory and management functions essential to professional nursing. The application of leadership and management principles through completion of a leadership project comprises the clinical experience for the course. Theory and Laboratory.
Prerequisite(s): NUR 319; and NUR 348; and NUR 329.

NUR 465. Complex Client Sys RNs. 5 sem. hrs.
This online synthesis course, designed for registered nurses, provides opportunities for the registered nurse student to examine complex acute and chronic health problems across levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Activities will focus on nursing actions used to intervene in care of complex clients. Theory and Laboratory.
Prerequisite(s): NUR 309 or NUR 319; and NUR 343 or NUR 348; and NUR 328 or NUR 329; and NUR 449.

NUR 471. Prof Nurs Pract Complex Client. 4 sem. hrs.
This synthesis course provides opportunities for the student to examine complex acute and chronic health problems across the levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Clinical activities will focus on nursing actions used to intervene in care of complex clients. Writing proficiency within this discipline is required for a passing grade in this course. (Theory and laboratory).

NUR 473. Leadership Prof Nursing Practi. 7 sem. hrs.
This course focuses on leadership theory and management functions essential to professional nursing. Skills essential to this role development are communication, collaboration, negotiation, delegation, coordination, and evaluation of interdisciplinary work, and the application of outcome-based practice models. Clinical experiences focus on enactment of the professional nurse role in a concentrated practicum in secondary or tertiary prevention care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking, and decision-making. (Theory and laboratory).

NUR 474. Honors Prof Nrsg Practice. 7 sem. hrs.
This course focuses on leadership theory and management functions essential to professional nursing. Clinical experiences focus on enactment of the professional nurse roles in a concentrated practicum in secondary or tertiary care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking and decision-making. The honors section will complete an in-depth comparison of quality improvement models for health care management. Subsequent application of a selected model in a rural health care delivery system will be implemented and reported in a scholarly paper. (Theory and laboratory).

NUR 475. Preparation For Licensure. 1 sem. hr.
This synthesis course provides opportunities for the student to assess his/her knowledge acquisition and to implement strategies with faculty assistance to ameliorate deficiencies and maximize learning. Students will have the opportunity to use individual, group, and technology-based methods to facilitate critical thinking and problem-solving using client situations. Students will also complete the licensure application process. (Theory).

NUR 479. Indep Study Licensure Prep. 1 sem. hr.
This independent study course provides opportunities for students to assess individual knowledge acquisiton and to implement strategies to ameliorate deficiencies and maximize learning with faculty assistance. Students will have opportunity to use individual and technology-based methods to facilitate critical thinking and problem solving using hypothetical client situations. Students also will comple te the licensure application process.
Prerequisite(s): NUR 471 and NUR 473.

NUR 480. Ind Study: Lic Prep II. 1 sem. hr.
This independent study course provides opportunities for students to assess individual knowledge acquistion and to imolement strategies to ameliorate deficiencies and maximize learning with faculty assistance.
Prerequisite(s): NUR 479.

Nursing Curriculum

Lower Division Requirements (BSN)

Freshman		
Fall	**Hours Spring**	**Hours**
CH 104	4 CH 105	4
EN 101	3 EN 102	3
PY 101	3 MATH 110 (or higher)	3
NUR 102[1]	1 History (HI)	3
Fine arts (FA)	3 CS 102	3

HD 101	3		
	17		**16**

Sophomore

Fall	Hours	Spring	Hours
BSC 215	4	BSC 216	4
ANT 102 or SOC 101	3	BSC 242	4
NHM 101	3	PHL 223 or 292	3
Literature (L)	3	Statistics	3
Foreign Language (FL) or Computer Science (CS)[3]	3	Literature (L) or History (HI)[2]	3
	16		**17**

Total Hours: 66

[1] NUR 102 Freshman Compass: Nursing is not a required course and will not be considered in upper division promotion.

[2] Literature/History: All students are required to complete a 6-credit-hour sequence in either literature or history. Students opting to enroll in the literature sequence must also complete an approved 3-credit-hour history course. Students opting to enroll in the history sequence must also complete an approved 3-credit-hour literature course. If students take two history courses and one literature course, one additional literature, humanities or fine arts course is required to satisfy the 12-hour humanities requirement.

[3] Students who opt to complete the foreign language sequence (FC) must also complete CS 102 Microcomputer Applications, which is a prerequisite to NUR 309 Nursing Informatics. Consult with the Office of Nursing student services academic adviser for appropriate courses to satisfy these requirements.

Upper Division Requirements (BSN)

Sophomore

Summer	Hours
NUR 305	3
NUR 307	1
NUR 308	3
NUR 309	3
	10

Total Hours: 10

NOTE: The sophomore year summer semester program of study may also begin in the fall semester.

Junior

Fall	Hours	Spring	Hours
NUR 324	9	NUR 328	3
NUR 326	3	NUR 372	8
		NUR 374	4
	12		**15**

Senior

Fall	Hours	Spring	Hours
NUR 418	4	NUR 471	4
NUR 420	4	NUR 473	7
NUR 422	4	NUR 475	1
	12		**12**

Total Hours: 51

Total lower division and upper division hours: 127

Courses

NUR 102. Freshman Compass: Nursing. 1 sem. hr.
The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory).

NUR 104. Liv Learning Prof Nursing Prac. 2 sem. hrs.
This elective course focuses on awareness of education of nursing majors at The University of Alabama Capstone College of Nursing and the profession of nursing. Students have the opportunity to learn about The University of Alabama campus, the Capstone College of Nursing and the profession of nursing. Activities will be included to promote students' development of relationships with other nursing students and other students in Harris Hall. This course, which is known as a compass course, will point you in the right direction, much as a compass would. (Theory).

NUR 155. Freshman Seminar. 3 sem. hrs.
The purpose of this course is to provide the history, facts and trends of the evolution of HIV/AIDS. Particular emphasis will be given to the prevention and early detection of infection for college students. Students will have an opportunity to increase their knowledge and understanding of the disease and the impact it has had on individuals, special populations, and the world. Guest lecturers, videos, and community experiences will enhance this learning experience. (Theory).

NUR 305. Human Pathophysiology. 3 sem. hrs.
The purpose of this course is to introduce students to fundamental pathology of the human body. This course examines physiological change results in disruptive adaptive responses throughout the lifespan. These disruptive responses are approached in a systematic manner. A combination of identified cellular concepts and a body systems approach is utilized to structure course content. Included are basic cellular processes in human pathology, pathology associated with the major body systems, and physiology associated with the aging process. (Theory).

NUR 307. Medication Calculation. 1 sem. hr.
This course is designed to facilitate the students' development of those skills necessary to properly calculate medication dosages and to prepare the student for the Medication Calculation Mastery Exam. Emphasis is placed on those cognitive skills necessary to perform the calculations correctly. (Theory).

NUR 308. Conceptual Foundations Prof Nu. 3 sem. hrs.
This course focuses on concepts and issues relevant to professional nursing practice. Content related to the values of professional nursing and issues affecting practice will be examined. Students are introduced to concepts from the CCN philosophy and conceptual framework. Writing proficiency within this discipline is required for a passing grade in this course.

NUR 309. Nursing Informatics. 3 sem. hrs.
This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. Computing proficiency is required for a passing grade in this course.

NUR 312. Clinical Internship. 1-3 sem. hr.
An elective clinical course that focuses on the further refinement of clinical and leadership skills. Students taking more than one semester hour will contract with the clinical faculty member for additional assignments. (Laboratory).

NUR 317. Indep Study In Nursing. 1-10 sem. hr.
This course focuses on individual independent study of a selected topic under the sponsorship of a nursing faculty member with relevant expertise. Prior approval of proposal by faculty sponsor and associate dean required. Elective.

NUR 319. Nrsg Informatics for RNs. 3 sem. hrs.
This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. Theory. Computing proficiency is required for a passing grade in this course. Prerequisite(s): CS 102.

NUR 324. Fundmntl Prof Nursing Practice. 9 sem. hrs.
Integration of knowledge, theories, and skills from the humanities, arts, and sciences serves as the foundation for this introductory clinical course. Students will develop adult assessment skills including the health history, physical, psychosocial, and spiritual aspects necessary for critical thinking in professional nursing practice. The nursing process will be presented as a framework for critical thinking, decision making, and nursing practice. Levels of prevention will be introduced as a model for health care. (Theory and laboratory).

NUR 326. Pharmacology Nursing Practice. 3 sem. hrs.
The purpose of this course is to introduce the student to the role of pharmaceutical agents in assisting with the individual's adaptation to stressors. A brief history and a discussion of the legal controls that regulate the field of pharmacology are included. Drug prototypes are utilized to examine the major classifications of drugs. Included in each drug classification is a discussion of pharmacokinetics, therapeutic uses, adverse reactions, precautions and contraindications. The special considerations of groups of individuals who may be receiving drug therapy are also included. Health teaching and nursing implications for each drug classification are emphasized. (Theory).

NUR 328. Inq for Evi-Based Prac in Nurs. 3 sem. hrs.
This course introduces nursing students to key terminology, elements and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, articulation of the importance of research for improving practice and the health of society, and for advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency is required for a passing grade in this course. (Theory)
Prerequisite(s): NUR 324 NUR 326.

NUR 329. Inq. Evidence Based Pract RNS. 3 sem. hrs.
This online course designed for registered nurses introduces key terminology, elements and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, articulation of the importance of research for improving practice and the health of society, and advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course. (Theory)
Prerequisite(s): NUR 319 or NUR 309; and NUR 348.

NUR 345. Perioperative Nursing. 3 sem. hrs.
This elective course is designed to give students an opportunity to participate in multiple nursing roles in the perioperative environment. These activities are planned to enrich the student's knowledge and provide application of concepts relevant to operative and anesthesia standards of care.
Prerequisite(s): NUR 324.

NUR 348. Role Tran in Baccalaureate Nur. 4 sem. hrs.
This online theory course designed for registered nurse students is structured to provide the foundation for continuing development of the students' body of conceptual and practical knowledge essential for enacting the professional nursing roles. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course. (Theory)
Prerequisite(s) with concurrency: NUR 319.

NUR 350. Crit Think & Clin Judgment. 2 sem. hrs.
This course provides opportunities for students to gain skills and knowledge on advanced clinical problem solving and decision making.
Prerequisite(s): NUR 324 and NUR 326.

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The purpose of this Summer Study Abroad course is to expose students in various disciplines to health care across the lifespan in Mexico. The course will focus on Mexican health care concepts, health care delivery, and health policy.

NUR 372. Prof Nursing Practice-Adults. 8 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems in adults and to determine actions that will ameliorate or reduce the consequences of adult disease through support or rehabilitation. Clinical experiences are designed to develop skills for early detection, diagnosis, and treatment of acute and chronic health problems in adults and prevention of further disability. (Theory and laboratory).

NUR 374. Prof Nurs Pract Mental Health. 4 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems across the lifespan and to determine actions that will ameliorate or reduce the consequences of mental-health problems. Students will develop skills in detection, diagnosis, and treatment of mental health problems across the lifespan. These mental-health nursing skills are designed to improve the mental health of patients and to prevent further disability. (Theory and laboratory).

NUR 391. Emergency Room Nursing. 3 sem. hrs.
This elective course focuses on chronic emergent and urgent interventions in actual and potential health problems of adults. Clinical experiences are designed to improved mastery of nursing psychomotor skills.
Prerequisite(s): NUR 372.

NUR 418. Prof Nurs Pract Childbear Fami. 4 sem. hrs.
This course focuses on the role of the nurse in providing holistic care to the childbearing family. The student will be given simple to complex situations during class/clinical experiences in which to assist childbearing families to adapt. A major focus will be on the three levels of prevention in the implementation of nursing care to childbearing families who are experiencing a normal maturational process as well as related acute/chronic health problems. (Theory and laboratory).

NUR 420. Prof Nursing Practice-Children. 4 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems in children and to determine actions that will ameliorate or reduce the consequences of disease in children through support or rehabilitation. Students will develop skills in early detection and diagnosis of disease in children and treatment of acute and chronic health problems that will prevent further disability. (Theory and laboratory).

NUR 422. Prof Nursing Pract Comm Health. 4 sem. hrs.
This nursing course focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. (Theory and laboratory).

NUR 449. Community Health For RNs. 5 sem. hrs.
This online course designed for registered nurses focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. Theory and Laboratory.
Prerequisite(s): NUR 319 and NUR 348.

NUR 455. Leadership & Management Roles. 5 sem. hrs.
This online course designed for registered nurses focuses on leadership theory and management functions essential to professional nursing. The application of leadership and management principles through completion of a leadership project comprises the clinical experience for the course. Theory and Laboratory.
Prerequisite(s): NUR 319; and NUR 348; and NUR 329.

NUR 465. Complex Client Sys RNs. 5 sem. hrs.
This online synthesis course, designed for registered nurses, provides opportunities for the registered nurse student to examine complex acute and chronic health problems across levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Activities will focus on nursing actions used to intervene in care of complex clients. Theory and Laboratory.
Prerequisite(s): NUR 309 or NUR 319; and NUR 343 or NUR 348; and NUR 328 or NUR 329; and NUR 449.

NUR 471. Prof Nurs Pract Complex Client. 4 sem. hrs.
This synthesis course provides opportunities for the student to examine complex acute and chronic health problems across the levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Clinical activities will focus on nursing actions used to intervene in care of complex clients. Writing proficiency within this discipline is required for a passing grade in this course. (Theory and laboratory).

NUR 473. Leadership Prof Nursing Practi. 7 sem. hrs.
This course focuses on leadership theory and management functions essential to professional nursing. Skills essential to this role development are communication, collaboration, negotiation, delegation, coordination, and evaluation of interdisciplinary work, and the application of outcome-based practice models. Clinical experiences focus on enactment of the professional nurse role in a concentrated practicum in secondary or tertiary prevention care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking, and decision-making. (Theory and laboratory).

NUR 474. Honors Prof Nrsg Practice. 7 sem. hrs.
This course focuses on leadership theory and management functions essential to professional nursing. Clinical experiences focus on enactment of the professional nurse roles in a concentrated practicum in secondary or tertiary care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking and decision-making. The honors section will complete an in-depth comparison of quality improvement models for health care management. Subsequent application of a selected model in a rural health care delivery system will be implemented and reported in a scholarly paper. (Theory and laboratory).

NUR 475. Preparation For Licensure. 1 sem. hr.
This synthesis course provides opportunities for the student to assess his/her knowledge acquisition and to implement strategies with faculty assistance to ameliorate deficiencies and maximize learning. Students will have the opportunity to use individual, group, and technology-based methods to facilitate critical thinking and problem-solving using client situations. Students will also complete the licensure application process. (Theory).

NUR 479. Indep Study Licensure Prep. 1 sem. hr.
This independent study course provides opportunities for students to assess individual knowledge acquisiton and to implement strategies to ameliorate deficiencies and maximize learning with faculty assistance. Students will have opportunity to use individual and technology-based methods to facilitate critical thinking and problem solving using hypothetical client situations. Students also will comple te the licensure application process.
Prerequisite(s): NUR 471 and NUR 473.

NUR 480. Ind Study: Lic Prep II. 1 sem. hr.
This independent study course provides opportunities for students to assess individual knowledge acquistion and to imolement strategies to ameliorate deficiencies and maximize learning with faculty assistance.
Prerequisite(s): NUR 479.

School of Social Work

The School of Social Work offers the degrees of bachelor of social work, master of social work and doctor of philosophy.

Program Requirements

The following courses are required for the BSW degree and include University Core Curriculum requirements as well as the state's general education requirements. Students must complete the foreign language (FL) requirement (see the Core Curriculum/General Education Requirements section of this catalog).

		Hours
BSC 108 or	Intro Biology Non Maj I (with lab (N))	4
BSC 109	Intro Biology Non Maj II	
COM 123	Public Speaking	3
One of the following sequences:		6
EN 101 & EN 102 or	English Composition and English Composition	6
EN 103	Advanced English Composition	
HY 101 or	Western Civ To 1648 [2]	3
HY 102	Western Civ Since 1648	
PY 101	Intro To Psychology	3
PY 358	Abnormal Psychology	3
SOC 101	Intro To Sociology	3
SOC 205 or	Social Psychology	3
PY 372	Social Psychology	
SW 100 or	Intro Fields SW Pract	3
SW 105	Introduction to the Fields of Social Work Practice	
SW 200 or	History Social Welfare in US	3
SW 205	Hist. of Soc. Wel. in the US	
SW 351 or	Oppression & Soc Injustice	3
SW 355	Honors Oppression and Social Injustice	
SW 401	Soc Wel Policy & Service	3
SW 410	Human Behav Soc Envir I	3
SW 411	Human Devel Soc Envir II	3
SW 420	Research Social Work Practice	3
SW 440	Sw Pract With Indiv & Families	3
SW 441	Sw Practice With Groups	3
SW 442	Sw Pract W/Communities	3
SW 443	Seminar Generalist Practice	3
SW 490	Field Education	9
One of the following Statistics courses:		3
BER 345	Educational Statistics	
CJ 381	Statistics	
PY 211	Elem Statistical Methods	
ST 260	Statistical Data Analysis	
Two of the following courses: [1]		6
ANT 100	Intro To Anthropology	
ANT 102	Intro Cultural Anthropology	
ANT 103	Discoveries In Archaeology	
ANT 270	Intro To Physical Anthropology	
EC 110	Principles of Microeconomics	
EC 111	Principles of Macroeconomics	
GY 105	World Regional Geography	
GY 110	Prin Human Geography	
PSC 101	Intro American Politics	
PSC 103	Intro Public Policy	
PSC 211	State & Local Govt	
or Freshman Seminar with Advisor's approval		
Fine arts (FA)		3
Foreign language (FL)		4-8
Free electives		11-15
Humanitites (HU) or fine arts (FA) or literature (L) electives [2]		3
Literature (L) [2]		3
Mathematics (MA) [3]		3
Natural science with lab		4
Two Social Work electives		6
Total Hours		122-130

1 At least one course must hold the SB designation, and the two courses selected must not be from the same department.

2 Students must have a two-course sequence in either HI or L.

3 Math courses have prerequisites that must be met.

Sample Course Sequence

A student may choose to vary the sequence of courses outside the School of Social Work and take some electives in the freshman and sophomore years. However, EN 101 English Composition and EN 102 English Composition, the freshman composition courses, must be taken in the freshman year. SW 101 Orientation to Social Work is recommended for new students. A student may be able to take fewer hours than the 15–16 hours per semester by going to summer session.

First Year

Fall	Hours	Spring	Hours
EN 101	3	EN 102 or 103	3
PY 101	3	SOC 101	3
SW 100	3	Fine Arts	3
SW 101	1	Foreign Language	3-4
Foreign Language	3-4	Mathematics above MATH 100	3
Freshman Seminar (elective)	3		
	16-17		**15-16**

Second Year

Fall	Hours	Spring	Hours
BSC 109 (with lab)	4	COM 123	3
EC 110 or PSC 101	3	SOC 205 or PY 372	3
HY 101 or 102	3	SW 351	3
SW 200	3	(HI) or (L) course	3
Literature course	3	Social Work elective	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
PY 358*	3	SW 401	3
SW 410	3	SW 411	3
SW 440	3	SW 441	3
Statistics	3	SW 442	3
Natural Science (with lab)	4	GY 110 or ANT 102	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
SW 490	9	Free Elective or HU/FA/L course	3
SW 443	3	Free Electives	5-7
SW 420	3	Social Work elective	3
	15		**11-13**

Total Hours: 119-123

General Degree Requirements

Students are required to complete a minimum of 120 hours for the degree. Of those, 48 hours must be in social work courses. Required courses are listed in the preceding Program Requirements section under Overview.

Hours of Study for the Minor in Social Welfare

Students in other divisions of the University may earn minors in social welfare by completing 18 hours of social work courses. Course requirements are listed under the Minor in Social Welfare section.

Independent Study

Independent study is usually arranged in order for the student to pursue a special area of interest in social work or social welfare that is not covered in courses regularly offered. To arrange an independent study course, the student should obtain permission from his or her adviser, work out the goals and objectives of the course

with the supervising instructor, and secure a recommendation from the program chair and approval from the assistant dean for educational programs and student services. Independent study must be approved no later than the last day of class of the semester preceding the semester of the course. Such courses may be dropped according to University policy.

Course Substitution

Occasionally, a student may wish to substitute another course for a required course. All such requests should first be presented to the student's adviser, who will weigh the merits of course substitution and determine whether the content of the proposed course is appropriate as a substitute. Decisions on Social Work course substitutions are made by the program chairperson.

Transient Enrollment

A student who wishes to take courses at another college or university during a summer or regular semester should, after talking with his or her adviser, check with the School of Social Work registrar's office to determine whether the courses will transfer to the School of Social Work. Prior approval must be received in order for transfer credit to be accepted toward degree requirements.

Second Bachelor's Degree

A student with a bachelor's degree in a major other than social work may take courses leading to a bachelor's degree in social work as a second degree. To qualify for enrollment in social work courses as a major, the student is expected to meet all requirements for admission (i.e., 2.25 cumulative GPA and 2.5 GPA or higher in social work courses and a completed application for admission). The student is also expected to complete, in residence and with the required overall and social work GPAs, the specified social work courses for the BSW degree. The student is also expected to take other courses common to social work majors, such as 4 hours of biological sciences. Students interested in a second degree should also refer to the University's requirements listed under the Second Bachelor's Degree section of this catalog under Academic Records and Policies/Multiple Degrees and Multiple Majors.

Minor in Social Welfare

A student who is majoring in another UA college may declare a minor in social welfare, subject to the requirements of his or her college. Requirements for an undergraduate minor in social welfare are as follows: SW 100 Intro Fields SW Pract or SW 105 Introduction to the Fields of Social Work Practice, SW 200 History Social Welfare in US or SW 205 Hist. of Soc. Wel. in the US, SW 351 Oppression & Soc Injustice or SW 355 Honors Oppression and Social Injustice, and 9 additional hours of social work courses to be selected from among the courses open to non–social work majors and for which students completing the minor have successfully passed the appropriate prerequisites. One of these courses must be at the 300 or 400 level. Social welfare minors may not take social work practice courses, including SW 440 Sw Pract With Indiv & Families, SW 441 Sw Practice With Groups, SW 442 Sw Pract W/Communities, SW 443 Seminar Generalist Practice and SW 490 Field Education. A student who plans to declare a minor in social welfare should complete the change of major/minor application online under the Student tab in their myBama accounts.

Faculty

Interim Dean

Roff, Lucinda L.

Assistant Dean for Educational Programs and Student Services

Bolland, Kathleen A.

Assistant Dean of Scholarly Affairs

Hamner, Karl

Instructors

Blackshear, Sheila

Herrin, Charlotte B.

Hobbs, Fay Wilson

Huebner, Robin

Lockhart, Angela

Payne, Nancy

Phelps, Carroll C.

Terrell, Joanne J.

Welker, Kathleen, W.

Assistant Professor

Bolland, Kathleen A.

Hopson, Laura M.

Noh, Hyunjin

Shah, Avani

Simpson, Gaynell M.

Sims, Omar

Starks, Karen

Traylor, Amy C.

Tyler, Cynthia W.

Williams, Javonda D.

Associate Professor

Cheng, Tyrone Chiwai

Church II, Wesley T.

Drolen, Carol S.

MacNeil, Gordan A.

Nelson-Gardell, Debra M.

Martin, Shadi Sahami

Pryce, Josephine G.

Simon, Cassandra E.

Smith, Brenda D.

Professors

Csikai, Ellen L.

Lo, Celia C.

Pollio, David E.

Roff, Lucinda L.

Parker, Michael W.

Hill Crest Foundation Endowed Chair

Pollio, David E.

Professor Emeritus

Adams, James P., Jr.

Crow, Richard T.

Crunk, Phillip Eugene

Kaufman, Alan B.

Kosberg, Jordan I.

Assistant Professor Emeritus

Bell, Roy F.

Associate Professor Emeritus

Eure, Gerald K.

Sumrall, Raymond O.

Associate Professor Emerita

Raymond, Ginny

Mueller, Thelma V.

Assistant Professor Emerita

McClain, Shirley B.

Shelton, Sharon C.

Professor Emerita

Roff, Lucinda L.

Chairperson

Church, Wesley T.

Cheng, Tyrone Chiwai

Williams, Javonda D.

Courses

SW 100. Intro Fields SW Pract. 3 sem. hrs.
An overview of the many and varied roles in which social workers function in today's society. Reviews the historical development of the profession, its various fields of practice, the profession's code of ethics, and covers current national and local issues. Fifteen hours of volunteer work outside of class are required. Required course for social work majors and social welfare minors; open to all University students, but freshmen and sophomores preferred. Offered in the fall and spring semesters.

SW 101. Orientation to Social Work. 1 sem. hr.
The purpose of this course is to orient new social work majors to the School of Social Work (SSW) to promote student academic success. Emphasis is on the advising process and establishing an educational plan, professional etiquette, steps in applying for admission to the professional program, the BSW program=s writing proficiency exam, and campus resources.

SW 105. Introduction to the Fields of Social Work Practice. 3 sem. hrs.
Social Work 105 is an introductory course that presents a comprehensive overview of the profession of social work and social workers' roles in contemporary society. This course is designed for students seeking advanced professional orientation and development in social work. This honors course is designed to provide a critical examination of the profession's values and Code of Ethics and the major fields of social work practice. Students examine the professions's response to populations-at-risk, including people of color, women, older adults, children and adolescents, gays and lesbians, and low income populations. Each student completes a 30 clock hour service learning assignment in a social service agency. The course provides a broad base of information for further social work education and helps students decide if social work is an appropriate career for them to pursue.
Prerequisite(s): None. This is an introductory course open to all University Honors Program students. This course will fufill the Introduction to the Fields of Social Work Practice requirement for social work majors and for social welfare minors.

SW 110. Values in Society. 3 sem. hrs.
The major purpose of this course is to examine the nature of our values within the context of the American society. To achieve this purpose, we will explore and examine the history and theories of our culture and the effects of our culture on individual development.

SW 155. Freshman Seminar. 3 sem. hrs.

SW 200. History Social Welfare in US. 3 sem. hrs.
Study of the general institutional basis of social welfare: its structure, function, historical development, and the philosophical bases of the provision of social welfare services. Offered in the fall and spring semesters.

SW 205. Hist. of Soc. Wel. in the US. 3 sem. hrs.
SW 205 is open to all students in the honors college at the university. This course will meet the History of Social Welfare in the United States requirement for all social work majors. This course provides students with an opportunity to explore and critically evaluate the historical development of social welfare, the social work profession, and the philosophical basis for the provision of various social welfare services to persons throughout the life course. Students will be expected to examine the development of social welfare programs and services within a political and economic context, with particular attention to influential societal values in the United States. The students will be expected to evidence a critical understanding of the major issues affecting the provision of social welfare programs and services to vulnerable and oppressed populations.

SW 206. Growing Old In America. 3 sem. hrs.
Provides information about the aging process and the position of older persons in American society.

SW 208. Juv Delinq:Causes/Control/Serv. 3 sem. hrs.
Examination of the nature and extent of delinquency. Theories of causation and the structure and function of courts are explored. Emphasis placed on prevention, control, and interventions with juvenile offenders and their families.

SW 210. Family & Child Welfare. 3 sem. hrs.
Examines the current situation in services for children and families. Gives an overview of services designed to strengthen families, as well as those that provide substitute care of children when the family is unable to meet this responsibility.

SW 212. Death Dying Bereavement. 3 sem. hrs.
Analysis of a variety of issues and problems presented by death, dying, and grief in American culture, with some comparison to other cultures. Examines attitudes and responses to death and the perspectives of children and adults.

SW 300. Special Topics. 3 sem. hrs.
Examination of an important topic in contemporary social work. Topic varies from semester to semester.

SW 310. Professional Writing Seminar. 1 sem. hr.
This pass/fail course assists students with acquiring/improving professional writing skills.

SW 320. Volunteer Human Serv Sys. 3 sem. hrs.
The nature and development of volunteerism in human services in the United States plus current trends in the use of volunteers is discussed. Each student is assigned to a human service agency in order to experience the role of being a volunteer.

SW 345. Traumatic Stress in SW. 3 sem. hrs.
This course addresses post traumatic stress and secondary traumatic stress. It includes theory, empirical research and social work interventions. The content is provided through a variety of modes to include textbook, articles, videos, movies and lectures.

SW 351. Oppression & Soc Injustice. 3 sem. hrs.
This course examines issues related to the oppression of people on the basis of their gender, ethnicity, race, culture, sexual orientation, physical or mental ability, age, religion, and national origin. It is designed to introduce the student to a range of issues of oppression and soical and economic injustice pertinent to the field of soical welfare and to the profession of social work. This course has the University Core Curriculum "W" designation. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): At least sophomore-standing or permission of the instructor.

SW 355. Honors Oppression and Social Injustice. 3 sem. hrs.
SW 355 is open to all students in the Honors College at the University. This course will meet the Oppression and Social Injustice (SW 351)requirement for all social work majors and social welfare minors who are in the Honors College. This course critically examines issues related to the oppression of people on the basis of their gender, ethnicity, race, culture, sexual orientation, physical or mental ability, age, religion, and national origin. It is designed to introduce the student to a range of issues of oppression and social and economic injustice pertinent to the field of social welfare and to the profession of social work. Students will also be introduced to various theoretical approaches to oppression and injustice. Specific emphasis is placed on critical and reflective thinking, and an exploration of the mechanisms of priviledge and disadvantage embedded in racism, sexism, classism and other forms of systemic oppression.
Prerequisite(s): Admission into the Honors Program and at least sophomore standing.

SW 401. Soc Wel Policy & Service. 3 sem. hrs.
Seeks to develop ability to analyze programs and policies. Alternatives to present policies are explored. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SW 200.

SW 410. Human Behav Soc Envir I. 3 sem. hrs.
This is the first course in a two-semester sequence that traces the course of human growth and development through the entire life cycle. Emphasis is placed on understanding the individual in interaction with major social systems.

SW 411. Human Devel Soc Envir II. 3 sem. hrs.
A continuation of SW 410.
Prerequisite(s): SW 410.

SW 414. Chemical Dependency. 3 sem. hrs.
This course will introduce the student to major theories of addiction as well as the physiological and psychological results of substance abuse. State and federal policies regarding control of drugs, alcohol, and tobacco will also be discussed. The effects of chemical dependency on special populations, including ethnic minorities, people of color, gays and lesbians, dually diagnosed, the elderly, and women will be reviewed.

SW 419. Intl. Social Development. 3 sem. hrs.
This three credit course is designed for undergraduate and graduate students who have interest in international social development.

SW 420. Research Social Work Practice. 3 sem. hrs.
Basic research methods for social work. Focuses on role of research in building knowledge and on application of findings and techniques to generic social work practice. Offered only in the fall semester.

SW 437. Forensic Social Work. 3 sem. hrs.
This course is designed to provide students with the knowledge and critical thinking skills necessary for specialized practice in the area of forensic social work. This is the practice of social work within the criminal and civil court systems.

SW 440. Sw Pract With Indiv & Families. 3 sem. hrs.
Provides the student with the opportunity to gain knowledge, understanding, and competence needed for intervention in working with individuals and families at the beginning professional level. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester only.

SW 441. Sw Practice With Groups. 3 sem. hrs.
The student is taught the fundamentals of group process, method, and content, and is prepared for social work practice with groups at the beginning professional level. Offered in the spring semester only.
Prerequisite(s): SW 410 and SW 440.

SW 442. Sw Pract W/Communities. 3 sem. hrs.
Prepares students to secure resources for clients in the community setting. Application of problem solving to improving community life. Offered in the spring semester only.
Prerequisite(s): SW 200 and SW 410.

SW 443. Seminar Generalist Practice. 3 sem. hrs.
Required course designed to accompany field placement. Seeks to assist students in integrating foundation content with field experience, with emphasis on generalist practice. Offered only in the fall semester.
Prerequisite(s): SW 440 and SW 441 and SW 442 and SW 490
Prerequisite(s) with concurrency: SW 490.

SW 457. Special Topics. 1-6 sem. hr.
Junior standing Special topics.

SW 490. Field Education. 9 sem. hrs.
Planned field experience in which the student is placed in a community service agency for a minimum of 32 hours a week, working under the joint instruction of the agency and the School of Social Work. For senior social work majors only. Offered in the fall semester only.
Prerequisite(s): SW 401 and SW 410 and SW 440, SW 411, SW 441, and SW 442
Prerequisite(s) with concurrency: SW 443.

SW 498. Independent Study. 1-6 sem. hr.
An opportunity for individual students or groups of students to assume liberal responsibility for developing their own learning objectives in conjunction with a faculty member who has expertise in the area, and for pursuing these objectives in relation to a social welfare program or function. By permission of the instructor, program chair, and associate dean. Permission must be obtained during the preceding semester.

School of Social Work Admission Requirements

Students entering the School of Social Work as freshmen are required to meet the admissions standards of the University set forth in the Admissions section of this catalog. The University accepts transferred credit from accredited associate of arts programs (see Undergraduate Transfer Admission section of this catalog). The School of Social Work also accepts those hours but requires that all students meet the course requirements for the bachelor of social work degree. An evaluation of each transferred course is made by the University's Academic Records office or the registrar of the School of Social Work. Any transfer credit of a social work course must be approved by the program chair. No academic credit, course waivers, or credit for field practicum shall be granted for life experience or for previous work experience.

Transfer credit from four-year institutions is accepted as long as the specified requirements for the BSW degree are met. Credit for 400-level social work courses can be granted only for such courses taken in a CSWE-accredited social work program. Social work courses below the 400 level taken in programs without CSWE accreditation are evaluated for transfer credit on a course-by-course basis. Because of the number of social work courses required of junior- and senior-level students, it is difficult for a transfer student to enter the School of Social Work after the first semester of the junior year and complete the program within an additional two-year period, unless the general education requirements have been completed during the first two years of study. Most transfer students attend at least one summer session.

Any University of Alabama student who has completed 45 semester hours or more of academic work and who wishes to transfer from any other UA division into the School of Social Work must have a grade point average of at least 2.0 for all college work.

Admission into the Professional Program

The priority deadline for application to enter the upper division (professional program) in social work is February 15 of each year for admission in the following fall semester and September 15 for admission in the following spring semester. Application forms are available on our website and from the school's registrar.

Each applicant for the professional program should have completed:

BSC 108 or	Intro Biology Non Maj I	4
BSC 109	Intro Biology Non Maj II	
PY 101	Intro To Psychology	3
SOC 101	Intro To Sociology	3
or their equivalents		
SW 100 or	Intro Fields SW Pract	3
SW 105	Introduction to the Fields of Social Work Practice	
SW 200 or	History Social Welfare in US	3
SW 205	Hist. of Soc. Wel. in the US	
SW 351 or	Oppression & Soc Injustice	3
SW 355	Honors Oppression and Social Injustice	

A student who has completed at least two of those courses may apply if he or she is enrolled in the other course at the time of application. An applicant also must have qualified for UA Core Curriculum–level math courses either by placement score or by having earned a C or higher in MATH 100 Intermediate Algebra. To be considered for admission, the student must have completed at least 45 hours toward the degree with a cumulative grade point average of at least 2.25 and a social work GPA of least 2.5.

Spaces for students in the upper division are limited. Two faculty readers score each application. Depending on the number of applications and spaces available, some applicants who meet minimum admissions requirements may be placed on a waiting list. Students who are conditionally admitted must maintain cumulative grade point averages of at least 2.25 (and 2.5 in social work courses) or the offer of admission will be withdrawn.

After the completion of approximately 54 hours toward the social work degree, with the required cumulative and social work grade point averages, students who have been admitted into the professional program begin taking the professional courses, which are the 400-level social work courses listed in the School of Social Work Program Requirements section of this catalog.

Performance and Retention Policies

To continue in the social work professional program, students must meet the following criteria:

- Students must earn minimum grades of C in all required social work courses, including two social work electives.
- Students must earn minimum grades of C in all other courses required in the major: PY 101 Intro To Psychology; SOC 101 Intro To Sociology; PY 358 Abnormal Psychology; PY 372 Social Psychology or SOC 205 Social Psychology; BER 345 Educational Statistics; CJ 381 Statistics; PY 211 Elem Statistical Methods or ST 260 Statistical Data Analysis.
- Students must earn a minimum grade of C on the designated writing assessment during their first semester in the professional program. Students who have not earned a C on the writing assessment by the end of the semester in which they complete SW 440 Sw Pract With Indiv & Families will be placed on probation and will be required to enroll in SW 310 Professional Writing Seminar during the following semester. These students must pass SW 310 Professional Writing Seminar in order to continue in the professional Social Work Program.

Field Education

SW 490 Field Education, a 9-credit-hour course, is a four-day-per-week learning experience course taken during the fall semester of the senior year. Students are given opportunities, under supervision, to develop social work skills. The School of Social Work collaborates with agencies in a variety of settings for field education placements. To complete field education requirements, students must make arrangements for transportation to and from their field education site. During this semester, students also attend classes at the School of Social Work one day per week.

To be eligible for their field education placement, students must maintain cumulative grade point averages of 2.25 or higher and 2.5 or higher GPAs in social work courses, and they must have passed a statistics class. Students on probation and/or holding grades of I in any social work courses may not be admitted to field education.

School of Social Work History and Objectives

The School of Social Work was established in 1965, when an act of the Alabama Legislature created a graduate school of social work, the first graduate social work program in the state. The undergraduate program began in 1970 and a doctoral program was added in 1975. The undergraduate program is the only such program in the state offered within a comprehensive school of social work.

Social work is a challenging and rewarding profession that has as its goal helping people live satisfying lives within their families and their communities. The profession's focus is on action to help people effect positive changes in their lives.

At the bachelor's and master's levels, the School of Social Work prepares social workers to plan, administer, deliver and evaluate social services for citizens of the state, region and nation. The bachelor of social work degree prepares the graduate

to begin generalist practice in a variety of settings. The master of social work degree prepares the graduate for advanced, specialized practice. The doctor of philosophy degree prepares graduates to develop and impart knowledge to advance the profession. The faculty of the School engage in research and professional activities that are designed to enrich educational programs, improve social conditions and meet the special needs of the state, region and nation.

The undergraduate program leads to the bachelor of social work degree. The primary objective of the undergraduate program in social work is the preparation of students for effective practice of professional social work in beginning-level positions. The graduate is prepared as a social work generalist with skills to assist individuals, families, groups, organizations and communities in achieving goals, solving problems and bringing about change where it is needed. Additionally, this program prepares students to enter graduate study in social work or related fields. It also provides interested persons with knowledge of social welfare needs and of the means of providing for those needs. These objectives, however, are secondary to the primary objective of preparation for practice.

Five basic requirements of the BSW program prepare the student for practice as a generalist social worker: required liberal arts courses, elective courses, required social work courses, elective social work courses and supervised social work field education.

Interim Program

The Interim Program is an innovative and intensive educational experience with courses offered between terms: Winter Interim between the fall and spring semesters and Summer Interim between spring semester and the summer term. Interim Program courses are often creative and experimental, ranging from international and domestic travel to explore many topics of interest, to intensive seminars in psychology, experiential courses in business and independent projects designed by individual students. Winter Interim is designed for online and travel courses only and is conducted during the winter break. Summer Interim is held for a three week period in May and is the first part of the summer term. Each Interim term offers numerous courses including some regular semester courses and many courses designed especially for the Interim term. Virtually all of the University's schools and colleges participate in the program, which is coordinated through the Office for Academic Affairs.

Registration for Winter Interim Program courses is part of the registration procedure for spring semester. Summer Interim course registration is a part of the registration procedure the summer term and fall semester. Students may register for one course resulting in three or four credit hours depending on the course. Questions about transfer credit for Interim courses should be directed to the Office of the University Registrar at (205) 348-2020. For an up-to-date listing of current Interim courses and prerequisites, visit the Interim website prior to the particular registration period.

For further information about any aspect of the Interim program, contact The University of Alabama, Office for Academic Affairs, Box 870114, Tuscaloosa, AL 35487-0114; call (205) 348-4890; or fax (205) 348-9137.

English Language Institute (ELI)

The University of Alabama English Language Institute (ELI), a unit of the Capstone International Center, provides instruction and support in English as a second language for non-native speakers of English.

The ELI offers the following programs:

Intensive English Program and Courses

The ELI Intensive English Program (IEP), which is accredited by the Commission on English Language Program Accreditation (CEA), is designed for individuals who need to learn English as a second language. The focus of the program is on preparing students for academic success in undergraduate and graduate study at The University of Alabama.

Six levels of study, from beginning to advanced, are available. Each level consists of 22 hours of core classes per week. Each level of study lasts six to eight weeks and is available six times per year. Sessions begin in January, March, May, June, August and October. Students may begin their English study at the start of any one of these sessions.

Students pursuing graduate study must complete Levels 4, 5 and 6 with a GPA of 3.5, or obtain a minimum iBT score of 79 or a 6.5 IELTS score. In certain cases, the Graduate School, the ELI and the student's academic department may together grant permission for a student to enroll in one graduate course per semester while completing the ELI program of study. The specific course must be approved by the instructor and department prior to enrollment. Students who receive Provisional Language Admission to the Graduate School because they do not have the required minimum TOEFL or IELTS score may also receive permission to take one graduate course depending upon their placement level within the ELI.

ELI Intensive English Program courses are designed for those who require a concentrated curriculum of study in English:

Structure: Levels 1–6. ELI structure courses provide students with the basic grammatical structures they will need to communicate effectively in English in the four language skill areas: listening, speaking, reading and writing. Each structure course emphasizes communication — both comprehension (listening and reading) and production (speaking and writing). Structure courses meet five hours per week.

Speaking/Listening: Levels 1–6. ELI courses in speaking/listening provide students with the opportunity to improve their listening and speaking skills and to gain confidence in using English to communicate orally. Students practice appropriate conversation management skills, receive instruction on problem areas of pronunciation and learn useful vocabulary. These activities are carried on through a variety of classroom exercises that focus on the everyday situations students are likely to encounter while adjusting to life in the United States. Speaking/listening courses meet six hours per week.

Reading/Writing: Levels 1–6. The ELI reading/writing curriculum is designed to provide students with skills needed to comprehend written discourse at the college level as well as produce written English in a variety of forms. Reading skills include understanding the main idea of a passage, understanding an author's purpose, distinguishing fact from opinion, reading quickly, using the resources of a collegiate dictionary and discussing written discourse in a relatively sophisticated manner. Writing exercises are designed to stimulate self-expression and personal involvement in writing. With attention to each step of the writing process — thinking, writing and rewriting — teachers guide students toward communicating their ideas with increasing clarity and depth. Reading/Writing courses meet nine hours per week.

Culturally Speaking: Through the Culturally Speaking class, ELI students can meet regularly with American students to converse in English in relaxed surroundings. The Culturally Speaking class provides a comfortable way for ELI students to form friendships with American students and to practice their English by discussing cross-cultural issues.

Culture and Language Exchange Program

The Culture and Language Exchange Program pairs an ELI student with an American student who is studying or has expressed an interest in the ELI student's native language/culture. Once paired, these students then meet as often as they like for conversation practice in both English and in the particular foreign language. Culture and Language Exchange partners are not guaranteed and can only be provided when available.

ELI Customized Group Programs

Customized group programs can be designed upon request for groups with mutual goals and concerns who desire highly specialized, intensive curricula. Such programs are typically designed for international English teachers, students whose international universities have approved particular curricula for credit, international graduate students preparing to enter universities throughout the US, and business professionals who wish to improve their overall effectiveness in English or to concentrate on specific skills such as written communication.

An organization interested in a customized group program should contact the English Language Institute to request a program proposal.

Academic Support Program

The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the graduate level, ESL support courses in written and spoken English are available free of charge to full-time international graduate students each fall and spring semester. In addition, the ELI Study Center and the UA Language Resource Center are available for individualized language assistance.

International Teaching Assistant Program

The International Teaching Assistant Program (ITAP) provides training and evaluation for international students with graduate teaching assistantships. Participation in the ITAP program is mandatory for all non-native English-speaking GTAs and graduate assistants who have instructional responsibilities at the University.

Contact the ELI

To obtain more information about any of the above ELI programs, visit eli.ua.edu or contact The University of Alabama English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; telephone (205) 348-7413; fax (205) 348-9266; or email info@eli.ua.edu.

Class Schedule Building Abbreviations

Building	Number	Abbrv
Mary Hewell Alston Hall	1032	AB
Adams Hall	7203	AD
AIME Building	1252	AIME
B.B. Comer Hall	1043	BC
Bidgood Hall	1031	BD
Bevill Building	1249	BE
Bashinsky Computer Center and Bruno Business Library	1036	BL
610 Capstone Drive	1175	BOM
Oliver-Barnard Hall	1027	BR
Biology Building	1034	BY
Carmichael Hall	1003	CA
Child Development Center	5016	CD
Doster Hall	7047	DO
East Annex	7202	EA
Farrah Hall	7054	FA
Ferguson Student Center	1022	FE
Foster Auditorium	7059	FO
Garland Hall	1067	GA
Gallalee Hall	1155	GL
Gordon Palmer Hall	1170	GP
Graves Hall	1030	GR
H.M. Comer Hall	1245	HC
Houser Hall	1079	HO
Hardaway Hall	1072	HR
W.B. Jones Hall	2083	JO
Gorgas Library	1013	LB
Little Hall	7088	LI
Law Center	6025	LW
Lloyd Hall	1039	LY
Manly Hall	1099	MA
Coleman Coliseum	6082	MC
Frederick R. Maxwell Hall	2152	MH
McLure Education Library	1051	ML
Moody Music Building	6118	MM
A.B. Moore Hall	7090	MO
Martha Parham Hall	7298	MP
Morgan Hall	1107	MR
Natatorium	6218	NA
Nott Hall Annex	1033	NO
Nott Hall	1150	NT
Osband Hall	7074	OS
Child and Family Research Clinic	1160	PA
Paty Hall	2247	PATY
Reese Phifer Hall	7205	PH
Rowand-Johnson Hall	1108	RJ
Rodgers Library	1250	RL
Stallings Center	5017	SC
Mary Harmon Bryant Hall	1038	SCF
Kilgore House	1388	SH
Science and Engineering Complex	1254	SEC
Shelby Hall	1251	SHLB
Smith Hall	1172	SM
Student Recreation Center	5372	SR
Student Services Center	1021	SS
Russell Hall	1226	ST
ten Hoor Hall	2297	TH
Recreational Tennis Courts	5386	TN
Temple Tutwiler Hall	7012	TT
Toumey Hall	1199	TU
Julia Tutwiler Hall	7206	TW
University Medical Center	5018	UMC
Wilson Hall	7005	WI
Woods Hall	1214	WO

Department, Program and Course Alpha Symbols

Department, Program or Course	Symbol	Division
Accountancy	AC	CB
Advertising and Public Relations	APR	CIS
Aerospace Engineering and Mechanics	AEM	EG
African-American Studies	AAST	AS
Air Force Studies	AFS	MIL
American Studies	AMS	AS
Anthropology	ANT	AS
Arabic	ARB	AS
Art History	ARH	AS
Art, Studio	ART	AS
Arts and Sciences	AS	AS
Astronomy	AY	AS
Athletic Training	ATR	HS
Biological Sciences	BSC	AS
Blount Undergraduate Initiative	BUI	AS
Book Arts	BA	CIS
Capstone International Programs	CIP	AS
Chemical and Biological Engineering	CHE	EG
Chemistry	CH	AS
Chinese	CHI	AS
Civil, Construction and Environmental Engineering	CE	EG
Classics	CL	AS
Clothing, Textiles and Interior Design	CTD	HS
Communication Information Sciences	CIS	CIS
Communication Studies	COM	CIS
Communicative Disorders	CD	AS
Community Health Sciences	CHS	CHS
Computer-Based Honors Program	CBH	UH
Computer Science	CS	EG
Computers and Applied Technology	CAT	ED
Consumer Sciences	CSM	HS
Co-op Work Period A&S	CAS	AS
Co-op Work Period CBA	CCB	CB
Co-op Work Period Communications	CCO	CIS
Co-op Work Period Education	CED	ED
Co-op Work Period Engineering	CEG	EG
Co-op Work Period HS	CHO	HS
Co-op Work Period Nursing	CNU	NU
Co-op Work Period SW	CSW	SW
Co-op Professional A&S	PAS	AS
Co-op Professional C&BA	PCB	CB
Co-op Professional Communications	PCM	CIS
Co-op Professional Education	PED	ED
Co-op Professional Engineering	PEG	EG
Co-op Professional HES	PHS	HS
Co-op Professional Nursing	PNU	NU
Co-op Professional Social Work	PSW	SW
Counselor Education	BCE	ED
Criminal Justice	CJ	AS
Croatian	CROA	AS
Curriculum and Instruction	CIE	ED
Czech	CZE	AS
Dance	DN	AS
Dutch	DUT	AS
Economics	EC	AS, CB
Education Orientation	EDU	ED
Educational Leadership	AEL	ED
Educational Psychology	BEP	ED
Educational Research	BER	ED
Electrical and Computer Engineering	ECE	EG
Elementary Education Programs	CEE	ED
Engineering Graphics	DR	EG
English	EN	AS
English Language Institute	ELI	AS
Exercise and Sport Science	HPES	ED
External Degree Program	EXD	AS
Farsi	FRS	AS
Finance	FI	CB
Fine Arts	FA	AS
Finnish	FIN	AS
Freshman Learning Community	FLC	AS
French	FR	AS
General Business Administration	GBA	CB
General Engineering Studies	ENGR	EG
General Health Studies	HES	HS
General Studies	GES	AS
Geography	GY	AS
Geological Sciences	GEO	AS
German	GN	AS
Greek	GR	AS
Health Care Management	HCM	CB
Health Education	HHE	HS
Hebrew	HEB	AS
Higher Education	AHE	ED
Hindi	HIN	AS
History	HY	AS
History, Philosophy and Sociology of Education	BEF	ED
Human Development and Family Studies	HD	HS
Human Environmental Sciences	HES	HS
Human Nutrition and Hospitality Management	NHM	HS
Indonesian	INDO	AS
Information Sciences	IS	CIS
Interdisciplinary Studies	IDGR	GR
International Business	IBA	CB
International Honors Program	IHP	UH
Instructional Leadership	AIL	ED
Italian	IT	AS
Japanese	JA	AS
Journalism	JN	CIS
Kinesiology	KIN	ED
Korean	KOR	AS
Latin	LA	AS
Latin American Studies	LAS	AS
Law	LAW	LW
Legal Studies	LGS	CB
Library and Information Studies	LS	CIS
Management	MGT	CB
Management Information Systems	MIS	CB
Marine Science	MS	AS
Marketing	MKT	CB
Mass Communication	MC	CIS
Mathematics	MATH	AS
Mechanical Engineering	ME	EG
Metallurgical and Materials Engineering	MTE	EG
Military Science	MIL	MIL
Modern Greek	MDGR	AS
Modern Languages and Classics	MLC	AS
Multiple Abilities Program	MAP	ED
Music Academics	MUS	AS
Music, Applied	MUA	AS
Music Education	MUE	ED
New College	NEW	AS
Norwegian	NOR	AS

Nursing	NUR	NU
Operations Management	OM	CB
Philosophy	PHL	AS
Physics	PH	AS
Polish	POL	AS
Political Science	PSC	AS
Portuguese	POR	AS
Psychology	PY	AS
Reading Education	CRD	ED
Religious Studies	REL	AS
Restaurant, Hotel and Meetings Management	RHM	HES
Romance Language(s)	RL	AS
Russian	RUS	AS
Sanskrit	SAN	AS
School Psychology	BSP	ED
Secondary Curriculum, Teaching and Learning	CSE	ED
Social Work	SW	SW
Sociology	SOC	AS
Spanish	SP	AS
Special Education and Multiple Abilities	SPE	ED
Statistics	ST	CB
Swahili	SWA	AS
Swedish	SWED	AS
Telecommunication and Film	TCF	CIS
Thai	THAI	AS
Theatre	TH	AS
Turkish	TUR	AS
University Honors Program	UH	UH
Urdu	URDU	AS
Vietnamese	VIET	AS
Women's Studies	WS	AS
World Literature	WL	AS

* AA = Academic Affairs; AFS = Air Force ROTC; AS = Arts and Sciences; CB = Commerce and Business Administration; CIS = Communication and Information Sciences; CH = Community Health Sciences; CS = Continuing Studies; ED = Education; EG = Engineering; HS = Human Environmental Sciences; MIL = Army ROTC; NU = Nursing; SW = Social Work; UA = University-wide.

Course Descriptions

Accountancy (AC) Courses

AC 210. Intro To Accounting. 4 sem. hrs.
Introduction to accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions. Students who intend to major in accounting should take AC 289 before or concurrently with AC 210.
Prerequisite(s): EC 110.

AC 289. Computer Applications. 3 sem. hrs.
Introduction to information technology and computer applications in business. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 114 or CBH 101.

AC 310. Finan Report Analy Bus Activ I. 3 sem. hrs.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 311. Fin Report Analy Bus Activ II. 3 sem. hrs.
Prerequisite(s): AC 310.

AC 334. Introduction to Fraud Risk Management. 3 sem. hrs.
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, detection, and follow-up.
Prerequisite(s): AC 210.

AC 351. Managerl Acctg Decisions. 3 sem. hrs.
Study of managerial accounting concepts and their use in business decisions. Not open to accounting majors.
Prerequisite(s): AC 210 or AC 201 and AC 202.

AC 352. Corporate Financl Report. 3 sem. hrs.
Study of financial accounting concepts and their use in analyzing and interpreting financial reports. Not open to accounting majors.
Prerequisite(s): AC 210 or AC 201 and AC 202.

AC 361. Cost Analysis Plang & Control. 3 sem. hrs.
A study of the theory and application of accounting for measuring the economic attributes of the firm's operations. The course examines the measurement, analysis, and interpretation of accounting information for planning and controlling a firm's business-related activities.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 371. Introduction To Taxation. 3 sem. hrs.
Introduction to tax policy, planning, practice, and research with an emphasis on income taxation.
Prerequisite(s): AC 201 and AC 202; or AC 210.

AC 389. Acct Info Syst Dev Opern Cntrl. 3 sem. hrs.
Introduction to the operation and development of accounting information systems, e-business applications, networking, and controls. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AC 289 or CS 285; and AC 310.

AC 415. Current Issues in the Accounting Profession. 3 sem. hrs.
This course is for accounting students who are returning from a spring internship.

AC 432. Intro Corp Gov Risk Assess. 3 sem. hrs.
A risk-oriented study of standards, concepts, procedures, and professional ethics underlying governance and the practice of external and internal auditing and assurance services. The course will focus on mechanisms and activities that enhance the reliability of information for decision making.
Prerequisite(s): AC 311 and AC 389.

AC 456. Govt & Non-Profit Acctg. 3 sem. hrs.
Special features of budgetary and fund accounting are applied to municipalities, other government units, and institutions such as schools and hospitals.
Prerequisite(s): AC 310.

AC 471. Taxation Bus Transact Organizt. 3 sem. hrs.
Examination of the tax implications of business formations, transactions between the entity and the owners, reorganizations, and liquidations. The course develops tax research skills.

AC 491. Independent Study. 3 sem. hrs.

AC 492. Accounting Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations.

AC 497. Special Topics. 3 sem. hrs.

Advertising and Public Relations (APR) Courses

APR 100. Professional Exploratory. 1 sem. hr.
The Professional Exploratory provides the student an opportunity to shadow advertising and PR professionals in the workplace while being introduced to current practices and trends in the field. Enrollment is by permission of the departmental chairman and the faculty sponsor. In order to qualify for APR 100, the student must have an overall GPA of at least a 2.0 and be a declared advertising or PR major or minor. One hour of credit may be earned for a Pass/Fail grade, determined by the agency supervisor's evaluation report to the faculty sponsor at the end of the term. APR 100 may not be repeated for credit.

APR 221. Intro To Advertising. 3 sem. hrs.
Survey of advertising, including history, social and political perspectives, advertising institutions, and an overview of advertising theory, planning, and practice.
Prerequisite(s): EN 101 or EN 103 or EN 104 or EN 120; and MC 101.

APR 230. Intro to Public Relations for Non Majors. 3 sem. hrs.
Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations. Infrequently offered.

APR 231. Intro Public Relations. 3 sem. hrs.
Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations.
Prerequisite(s): EN 101 or EN 103 or EN 104 or EN 120; and MC 101.

APR 260. Design Applications. 3 sem. hrs.
An introductory skills course to the primary Adobe CS5 Suite items (Photo- shop, Illustrator, and InDesign) used in the advertising and public relations program. Through this distance education class, students will learn the primary skill set used to make professionally designed logos, ads, brochures, newsletters, and other documents prevalent in the industry in addition to a small amount of Web training.
Prerequisite(s): MC 101.

APR 300. Visual Communication. 3 sem. hrs.
Theory, concepts, and aesthetics of visual communication applied to commercial persuasion in advertising and public relations. Particular attention is given to the application of course content in desktop publishing.
Prerequisite(s): APR 221 or APR 231 or JN 311; and APR 260 and JN 150 and MC 101.

APR 307. Creative Imaging. 3 sem. hrs.
Create, manipulate and optimize images for print and Internet use. Students will learn basic and advanced imaging techniques using Adobe Photoshop.
Prerequisite(s): APR 221 or APR 231; and APR 260 and APR 300 and MC 101.

APR 322. Advertising Copywriting. 3 sem. hrs.
Examination of relationships between advertising strategy and the creative process, concentrating on the generation of ideas and the execution of advertising ideas for various media. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and JN 150; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 332. Public Relations Writing. 3 sem. hrs.
Theory and practice involved in creating public relations messages, including planning, writing, editing, production, and evaluation. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 231 and APR 260 and APR 300 and JN 150 and JN 311; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 380. Independent Study. 1-9 sem. hr.
Variable credit (1 to 9 hours). Analysis of advanced theoretical issues in commercial persuasive communication under the supervision of an advertising or public relations faculty member.

APR 381. APR Practicum. 1-3 sem. hr.
Variable credit (1 to 3 hours). Supervised field experiences coupled with investigation of communication problems. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110; and APR 221 or APR 231; and APR 260; and APR 322 or APR 422 or APR 332; and JN 150 and MC 101.

APR 385. Advertising Internship. 3 sem. hrs.
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports submitted by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260; and APR 322 or APR 422; and JN 150 and MC 101.

APR 386. Public Relations Internship. 3 sem. hrs.
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 415. Online Magazine Writing. 3 sem. hrs.
This course further develops writing and editing skills for emerging electronic communications. Students' major project is to write, produce & distribute an issue of Platform, an online magazine for PR students & educators. Writing proficiency is required and must be demonstrated in order to pass the W-designated course.,
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 418. Advertising Development. 3 sem. hrs.
Theory and practice of visual communication in telecommunication and print media, with particular attention to the latest creative approaches being applied in advertising and public relations.
Prerequisite(s): MC 101 and APR 221 and APR 300 and APR 260 and APR 322 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and JN 150.

APR 419. Public Relatns Development. 3 sem. hrs.
Application of graphic design techniques to the creation and production of public-relations#oriented publications.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 420. Political Communication. 3 sem. hrs.
The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.
Prerequisite(s): MC 101.

APR 422. Advertising Media. 3 sem. hrs.
Study of media as vehicles for advertising messages, and preparation of media objectives, strategies, budgets, and buying plans. May be taken for graduate credit.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260 and JN 150 and MC 101.

APR 423. Advertising Management. 3 sem. hrs.
The course concentrates on advertising as a business-building activity and examines the concepts, perspectives, and practices that advertising decision makers can employ to maximize the value of advertising. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and APR 322 and APR 422 and JN 150; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110.

APR 424. Advertising Campaigns. 3 sem. hrs.
Planning and execution of advertising campaigns for specific organizations. Integration of advertising theory, concepts, and techniques into complete communication programs. Offered in fall and spring semesters.
Prerequisite(s): MC 101 and APR 221 and APR 260 and APR 300 and APR 322 and APR 422 and JN 150 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

APR 432. Public Relations Management. 3 sem. hrs.
The course concentrates on public relations as an essential element in the effective management of any organization and examines the concepts, perspectives, and practices that apply to the management of communication programs directed to various audiences inside and outside the organization. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 433. Public Relations Campaigns. 3 sem. hrs.
Planning and execution of public relations campaigns for specific organizations. Integration of public relations theory, concepts, and techniques into complete communication programs. Offered in fall and spring semesters.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JN 150 and JN 311 and MC 101.

APR 443. Political Advertising & Political Public Relations. 3 sem. hrs.
Study of the role of political advertising and political public relations in contemporary American media. A consideration of proactive and reactive political advertising and public relations strategies.
Prerequisite(s): APR 420 and MC 101.

APR 480. Readings In APR. 3 sem. hrs.

Aerospace Engineering and Mechanics (AEM) Courses

AEM 120. Aerospace Science For Educators. 4 sem. hrs.
Students develop meaningful understanding and use of engineering and science knowledge and critical-thinking skills and come to appreciate engineering and science as part of the daily life of a scientifically literate professional.

AEM 121. Intr. to Aerospace Eng. I. 2 sem. hrs.
To survey aerospace history, discuss pertinent topics and introduce basic concepts that promote an understanding of aerospace engineering and the profession.
Prerequisite(s) with concurrency: MATH 112.

AEM 201. Statics. 3 sem. hrs.
Forces and couples and resultants of force systems, free-body diagrams, equilibrium, and problems involving friction; and centroids, center of gravity, and distributed forces.
Prerequisite(s): MATH 125 or MATH 145; and PH 105 and ENGR 151.

AEM 249. Algorithm Devl Implementation. 2 sem. hrs.
Algorithm development, numerical solution of engineering problems, and structured problem solving in C++.
Prerequisite(s) with concurrency: MATH 125 and MATH 145.

AEM 250. Mechanics Of Materials I. 3 sem. hrs.
Concepts of stress and strain; analysis of stresses and deformation in bodies loaded by axial, torsional, and bending loads; combined loads analysis; statically indeterminate members; thermal stresses; columns; and thin-walled pressure vessels.
Prerequisite(s): MATH 126 or MATH 146 and AEM 201.

AEM 251. Mechanics Of Materials I Lab. 1 sem. hr.
Mechanical tests of metallic and nonmetallic materials in the elastic and inelastic ranges; use of materials testing for acceptance tests, for the determination of properties of materials, and for illustration of the validity of assumptions made in mechanics of materials.
Prerequisite(s) with concurrency: AEM 250.

AEM 264. Dynamics. 3 sem. hrs.
Kinematics of particles and rigid bodies, Newton's laws of motion, and principles of work-energy and impulse-momentum for particles and rigid bodies.
Prerequisite(s): MATH 126 or MATH 146; and AEM 201.

AEM 311. Fluid Mechanics. 3 sem. hrs.
Fluid statics, application of conservation laws to simple systems, dimensional analysis and similitude, and flow in open and closed conduits.
Prerequisite(s): MATH 227 or MATH 247; and AEM 201.

AEM 313. Aerodynamics I. 3 sem. hrs.
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 311 and AEM 264
Prerequisite(s) with concurrency: MATH 238.

AEM 314. Aircraft Performance. 3 sem. hrs.
Aircraft performance parameters, including static stability criteria.
Prerequisite(s): AEM 264 and AEM 349
Prerequisite(s) with concurrency: AEM 349 and AEM 264.

AEM 341. Aircraft Structural Analysis. 3 sem. hrs.
Methods of analyzing stressed skin structures of the types that are typically found in aircraft, missiles and space vehicles. Unsymmetrical bending and bending and twisting of multiple cell structures are also covered.
Prerequisite(s): AEM 249 and AEM 250.

AEM 349. Engineering Analysis. 4 sem. hrs.
Elements of analytical and numerical analysis with engineering applications including, but not limited to, differential equations, linear algebra, root-finding, Gaussian elimination, and Runge-Kutta integration.
Prerequisite(s): MATH 237 and MATH 238 and AEM 249.

AEM 368. Flight Dynamics & Control I. 4 sem. hrs.
Fundamentals of airplane aerodynamics and performance, static trim, 6-DOF equations of motion, and flight dynamics, stability and control.
Prerequisite(s): AEM 313 and AEM 349.

AEM 402. Integrated Aerospace Design I. 3 sem. hrs.
Preliminary design techniques for an aerospace system.
Prerequisite(s): AEM 341 and AEM 368 and AEM 413
Prerequisite(s) with concurrency: AEM 408.

AEM 404. Integrated Aerospace Design. 3 sem. hrs.
Preliminary and detailed design of aircraft and space vehicles, including weight and balance, power plant selection, exterior layout, performance, stability, and control. Involves group efforts on selected projects.
Prerequisite(s): AEM 402.

AEM 408. Propulsion Systems. 3 sem. hrs.
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): AEM 413.

AEM 413. Aerodynamics II. 3 sem. hrs.
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 313 and ME 215.

AEM 414. Experimental Aerodynamics. 3 sem. hrs.
This course provides a laboratory counterpart to concepts discussed in aerodynamics and fluid mechanics. Course topics include statistical and uncertainty analysis techniques, design of experiments, computer-based data-acquisition, sensors for fluid mechanic measurements, and aerodynamic measurement techniques and facilities.
Prerequisite(s): AEM 313.

AEM 416. Helicopter Theory. 3 sem. hrs.
Critical examination of the propulsive airscrew, including induced velocity relations, flow patterns, and similarity. Practical applications are approached through existing theory and practice.
Prerequisite(s): MATH 238 and AEM 264 and AEM 311.

AEM 420. Computational Fluid Dynamics. 3 sem. hrs.
Introduction to basic mathematical concepts and engineering problems associated with numerical modeling of fluid systems. Application of the state of the art numerical models to engineering problems. Fundamentals of Finite Difference and Finite Volume Methods and their applications in fluid dynamics and heat transfer problems will be covered.
Prerequisite(s): AEM 311 and AEM 349 and MATH 238.

AEM 428. Space Proplusion. 3 sem. hrs.
This course introduces the student to descriptions and analyses of space and launch-vehicle propulsion. Topics covered include advanced schemes such as nuclear, solar and laser propulsion; power cycles; and tether systems.
Prerequisite(s): AEM 408
Prerequisite(s) with concurrency: AEM 408.

AEM 451. Structural Design & Testing. 4 sem. hrs.
Design of tension, compression bending, torsion, and stiffened panel members; experimental and analytical investigations involving static and dynamic structural behavior. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 341 and ECE 320
Prerequisite(s) with concurrency: AEM 461.

AEM 452. Composite Materials. 3 sem. hrs.
Introduction to the governing principles of the stiffness and strength of unidirectional and multidirectional fiber composite materials.
Prerequisite(s): AEM 250; and AEM 341 or CE 331 or ME 350.

AEM 461. Computational Methods for Aerospace Structures. 3 sem. hrs.
Development of the fundamentals of the finite-element method from matrix and energy methods. Use of the finite-element method for detailed design of aerospace structures. Modeling techniques for static and dynamic analyses.
Prerequisite(s): MATH 227 or MATH 247, AEM 341 and AEM 349.

AEM 468. Flight Dynamics & Control II. 4 sem. hrs.
Linear equations of motion, dynamic response, state-space methods, fundamentals of classical and modern control theory; flying and handling qualities design criteria; stability augmentation and control augmentation.
Prerequisite(s): AEM 368.

AEM 469. Orbital Mechanics. 3 sem. hrs.
Introduction to engineering application of celestial mechanics; high-speed, high-altitude aerodynamics; and other fields related to the contemporary problems of space vehicles. Fundamentals of applied dynamics, nomenclature of space flight, space environment and solar system, and two-body orbits. Kepler's laws, coordinate transformations, and related studies.
Prerequisite(s): MATH 238 and AEM 264.

AEM 470. Mechanical Vibrations. 3 sem. hrs.
Free and forced vibrations, both undamped and damped. Systems with many degrees of freedom are formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): AEM 264 and MATH 238 and AEM 250.

AEM 471. Fundamentals Of Acoustics. 3 sem. hrs.
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.
Prerequisite(s): MATH 238 and PH 106 and ECE 320.

AEM 480. Intro Computer Fluid Dynamics. 3 sem. hrs.
Analyses of aerodynamic flow problems using a digital computer.
Prerequisite(s): AEM 311 and AEM 349.

AEM 491. Special Problems. 1-6 sem. hr.
Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 492. Special Problems. 3 sem. hrs.
Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 495. Senior Seminar. 2 sem. hrs.
Selected topics from recent developments in the aeronautical and space engineering fields. There are visiting lecturers and extensive student participation. Several nontechnical topics of immediate interest to seniors are explored. Each student must complete a personal resume. Writing proficiency is required for a passing grade in this course.
Prerequisite(s) with concurrency: AEM 402.

African American Studies (AAST) Courses

AAST 100. "Call and Response": Exploring African American Cultural Experience. 1 sem. hr.
This course is designed to generate student interest and excitement in African American Studies by giving students opportunities to explore facets of African American cultural experiences. Following an interdisciplinary approach, this course will allow students to discover the rich diversity of African American cultural practices such as music, visual arts, literature, storytelling, dance, and religious practice. This course allows students at UA and UAB to experience the expertise of faculty from both institutions. It is also web-enhanced and has components on both UA's and UAB's BlackBoard systems for which UA and UAB students will access.

AAST 201. Intro African Amer Study. 3 sem. hrs.
A basic outline of the diversity and complexity of the African-American experience in the United States: the early academic and social concerns of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation and multiculturalism; and its major theoretical and critical debates.

AAST 202. African American Lives. 3 sem. hrs.
A cultural approach to African American lives, exploring the role of the individual, biography, and narrative in African American history and culture.

AAST 226. Themes from Africa to America. 3 sem. hrs.
An examination of the spread of religious life in the African America's emphasizing present institutions and practices; its African roots, its shape and function during slavery and its development from Emancipation to the present.

AAST 249. African-American Literature. 3 sem. hrs.
Survey of African American literature from its earliest expressions to the present. In order to identify the aesthetics of the African American literary tradition, the course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.

AAST 280. Rock, Soul & Country. 3 sem. hrs.
This course examines three dominant American popular music genres with particular emphasis on race, gender, class and region.

AAST 302. The Black Church. 3 sem. hrs.
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AAST 303. Education Of Southern Blacks. 3 sem. hrs.
A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AAST 319. 19th Century Black History. 3 sem. hrs.
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

AAST 320. 20th Century Black History. 3 sem. hrs.
The interrelationship of blacks and the industrial-urban environment of the United States.

AAST 321. African American Folk Art. 3 sem. hrs.
This course will focus on analysis of object, created by African Americans variously classified as folk, self-taught, outsider artists. Material will address African origins. American transformations of traditional arts and crafts.

AAST 340. Women in the South. 3 sem. hrs.
Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories, and novels written by and about women in the 19th- and 20th-century South.

AAST 341. African American Art. 3 sem. hrs.
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the women's movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AAST 350. Topics African American Lit. 3 sem. hrs.
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

AAST 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

AAST 395. Special Topics. 3 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 400. Gender & Black Masculinity. 3 sem. hrs.
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST 401. Black Intellectual Thought. 3 sem. hrs.
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.
Prerequisite(s): AAST 201 and AMS 201.

AAST 402. Special Topics. 3-9 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 413. Communication And Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency within this discipline is required for a passing grade in this course.

AAST 415. African American Rhetoric. 3 sem. hrs.
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.

AAST 435. Black Feminism. 3 sem. hrs.
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200.

AAST 436. Gender and Black Masculinity. 3 sem. hrs.
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST 488. Adv Study African-Amer Lit. 3 sem. hrs.
A special topics course that focuses on issues in African American literature.

AAST 490. AAST Independent Study. 1-6 sem. hr.
Independent study on any subject pertaining to African-American studies, under the supervision of a professor in the chosen field and/or Director of the program.

AAST 495. Special Topics. 3 sem. hrs.
An examination of selected African American topics. May be repeated for a maximum of 9 hours.
Prerequisite(s): AAST 201.

Air Force Studies (AFS) Courses

AFS 101. Leadership Laboratory. 1 sem. hr.

AFS 102. Leadership Laboratory. 1 sem. hr.

AFS 110. Foundations Of The Usaf. 1 sem. hr.

AFS 120. Foundations Of The Usaf. 1 sem. hr.

AFS 201. Leadership Laboratory. 1 sem. hr.

AFS 202. Leadership Laboratory. 1 sem. hr.

AFS 230. Evolutn Of Us Air Power. 1 sem. hr.

AFS 240. Evolutn Of Us Air Power. 1 sem. hr.

AFS 301. Leadership Laboratory. 1 sem. hr.

AFS 302. Leadership Laboratory. 1 sem. hr.

AFS 350. Usaf Leadership Studies. 3 sem. hrs.

AFS 360. Usaf Leadership Studies. 3 sem. hrs.

AFS 401. Leadership Laboratory. 1 sem. hr.

AFS 402. Leadership Laboratory. 1 sem. hr.

AFS 470. National Security Affair. 3 sem. hrs.

AFS 480. National Security Affair. 3 sem. hrs.

AFS 491. Leadership Laboratory. 1 sem. hr.

AFS 492. Leadership Laboratory. 1 sem. hr.

American Studies (AMS) Courses

AMS 100. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduate students offered by American studies faculty members or supervised teaching assistants. Some examples include the following five-week, one-hour courses: African-American Star Ahtletes, Superbowl Ads, Stand Up Comedy, Disney's America, and Why Eat Local?

AMS 101. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 102. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 103. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 104. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 105. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 106. Special Topics. 1 sem. hr.
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS 150. Introduction to American Studies: Arts and Values. 3 sem. hrs.
Exploration of the relation between the arts – popular, folk, and elite – and American culture in four selected periods: Victorian America, the '20s and '30s, World War II and the Postwar Era, and the '60s. Class presentations and discussions revolve around novels, movies, art, music, artifacts, and readings about the periods. This course is team taught by all the members of the American studies faculty. Offered fall semester.

AMS 151. Intro American Studies: Globalization, Nationalism, and Regionalism. Nation regions 3 sem. hrs.
World, Nation, Regions. A broad survey of American culture formed by global, national, and regional influences. The first section, "World," looks at the United States as a product and shaper of international movements, ideas, and cultures from 1500 to the present. The second section, "Nation," examines the creation of a distinctly American identity between 1790 and 1890 that ultimately incorporated and reflected global issues. The third section, "Regions," focuses on the South and other regions as contributors to and consequences of national and global interactions. Team taught by the entire AMS faculty, lectures will include topics on film, music, literature, art, sports, and other cultural artifacts. Offered spring semester.

AMS 155. Freshman Seminar. 3 sem. hrs.

AMS 200. Special Topics Amer Stud. 3 sem. hrs.
Selected American topics for lower-division undergraduate students offered by AMS faculty members or Americanists from related departments. Recent examples include The Asian-American Experience, The American Road, The Sporting Life, Baseball Since 1945, and Twilight Zone Culture. May be repeated for a maximum of 12 hours.

AMS 201. Intro African Amer Study. 3 sem. hrs.
This course provides a basic outline of the diversity and complexity of the African American experience in the United States. It surveys the early academic and social concern of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation, and multiculturalism; and its major theoretical and critical debates.

AMS 202. African American Lives. 3 sem. hrs.
A cultural approach to African American lives, examining how the selected course texts express the formation of individual identity and how it is influenced by African American culture. The role of the individual, biography, and narrative in African American history and contemporary culture will be explored. The course draws upon a variety of texts, including historical and theoretical work, visual arts, music, literature, material culture, and documentary and feature films.

AMS 203. Introduction to Southern Studies. 3 sem. hrs.
This discussion-based course introduces students to major texts and interdisciplinary methodologies in the field of Southern Studies. Traversing epochs from before the Civil War until after the Civil Rights Movement, we will scrutinize the interplay between course materials (autobiographies, fictional texts, historical accounts, and films) and major political, cultural, and social forces influencing the region and the nation.

AMS 204. Introduction to Western American Studies. 3 sem. hrs.
A lecture/discussion course utilizing a biographical approach to the salient themes, issues, and episodes of the American West. Some of these lives are real, some of them imagined, and others are a little of each. All of them, however, reveal much about both region and nation and how each has changed over time.

AMS 205. Dirty Jobs. 3 sem. hrs.
This course explores jobs that get you "dirty." Work is one of the aspects that most shapes individual lives, and many lines of work are viewed as dangerous, dirty, or somehow unsavory by American society. This course uses films, TV shows, written narratives, and music to explore different types of "dirty" work in the United States.

AMS 208. Rock, Hip-Hop and Country. 3 sem. hrs.
This class will offer an introduction to popular music that young Americans used, for two generations, to root their aesthetics, center their values, and test their ethical allegiances. Students will look at enduring and innovative music, but also trained to understand the contexts that have shaped how that music was both produced and consumed. In popular music, the line between artist and audience is inevitably blurry. Few forms of culture have been so fundamental in shaping what scholars call "affective alliances"—the way, when rhythms fill our bodies and voices fill our heads, we find others who share those passions, and the way they guide how we speak, dress, act cool, and just generally move through the world. 3.

AMS 222. Modern Gay America. 3 sem. hrs.
This course will focus on the emergence of the GLBT community in 20th century American Culture. We will look at the many ways GLBT identity developed in the 20th century by exploring the intersections of science, religion, popular culture, politics, and urbanization on GLBT people. Because the experience of GLBT individuals is so varied, we will use a variety of media to create patterns and connections within this diverse community.

AMS 231. Contemporary America. 3 sem. hrs.
This course has two principal objectives. Students will analyze the changing nature of American cultural values for the period dating from the early 1970s to the present. By placing materials drawn from literature, film, the visual arts, music, and popular culture within broader social and historical contexts, students will examine key developments in the everyday life patterns and cultural expressions of Americans in contexts that range from the local to the international. In addition, the course will familiarize students with a sampling of the interdisciplinary methodologies applicable to work in the field of American studies (e.g., analysis of images and primary documents, oral history, and ethnography). Offered fall semester.

AMS 232. Contemp. America in Music. 3 sem. hrs.
This course uses music and culture to analyze the changing nature of American values after the 1960's and introduces interdiscplinary research methods.

AMS 251. American Folklore. 3 sem. hrs.
Survey and analysis of such genres of American vernacular expression as legends, ghost tales, humor, music, and sermons as they express and shape particular regional and/or ethnic American identities. Course materials include ethnographic writing, sound recordings, film, and folklore scholarship. Attention also given to the competing and sometimes contradictory definitions of "folk" culture from the 19th century to the present.

AMS 271. Film & American Culture. 3 sem. hrs.
Interdisciplinary investigation of American culture through motion pictures, film history, and relevant cultural/historical documents. Focus on the ways in which films have reflected and influenced prevailing American attitudes and values. Variable focus on a specified theme, genre, or representations of a particular American region.

AMS 300. Special Topics. 3 sem. hrs.
Selected American topics for advanced undergraduate students, offered by American Studies faculty members or Americanists from related departments. Recent examples include American Hobo Subculture, World War II and Modern Memory, Women's Liberation Movement, Justice and Civil Society, Southern Sexual Cultures, and Cultures of American Slavery. May be repeated for a maximum of 12 hours.

AMS 302. The Black Church. 3 sem. hrs.
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AMS 303. Education Of Southern Blacks. 3 sem. hrs.
A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AMS 306. Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 315. United States Labor Since 1865. 3 sem. hrs.
Examines the history of workers - men and women, paid and unpaid, of different racial and ethnic groups, in different regions of the United States - from 1865 to the present.

AMS 316. Labor on Film. 3 sem. hrs.
This course examines the ability of film to successfully portray the history of labor in the US and how present events and attitudes shape portrayals of past events.

AMS 318. Amusement and Tourism. 3 sem. hrs.
The course explores varied forms of leisure culture that emerged in the 19th century and exploded in popularity throughout the 20th century. The course examines leisure culture as a vibrant component of American social, economic, and aesthetic history. Using travel narratives and fictional works, along with historical critiques, art, and other popular culture documents, the course explores Americans as they tour the nation, take vacations, and seek amusement. The course provides a framework for understanding the centrality of leisure as it has influenced how Americans see themselves and their national character.

AMS 320. American Popular Humor. 3 sem. hrs.
This course explores major writers, performers, works, and themes of American humor that have achieved enduring popularity among mass audiences. It examines the social and historical contexts that reverberate in humor produced in the United States and focuses on three persistently popular mediums: prose and performance; film; and the television situation comedy.
Prerequisite(s): 6 SH American Studies or equivalent courses or permission of instructor.

AMS 321. African American Folk Art. 3 sem. hrs.
An examination of the objects created by African Americans variously classified as "folk," "self-taught," and "outsider" artists. Course material will address the African origins and American transformations of traditional arts and crafts (architecture, pottery, iron work, and quilting) as well as the work of selected 20th-century artists in such media as painting, sculpture, and assemblage. Key concerns will include not only analysis and cultural/historical contextualization of these artists and their works but also political and theoretical debates with respect to issues of collection, modes of exhibition, and use of the above-listed classifications.

AMS 325. America West And 19th Century. 3 sem. hrs.
Few things remained so central to the 19th American century experience as the West, a region to be explored, inhabited, and incorporated into an expanding urban-industrial society. From Lewis and Clark to Buffalo Bill, this lecture/discussion course examines the relationship between America and the West as it developed throughout the 19th century.

AMS 326. The Modern West. 3 sem. hrs.
This lecture/discussion course examines the growth of the American West during the 20th century as both the embodiment of modernity and, as mythic imagination, an escape from the very modernity it represents.

AMS 331. Writer & Artist In America. 3 sem. hrs.

AMS 332. Popular Culture In Amer. 3 sem. hrs.

AMS 335. American Pop Music. 3 sem. hrs.
Recent scholarship has shifted popular music history from folk roots and rock rebellion to pop: commercial, accomodating, but no less fascinating amalgamations. This class will range from blackface mistrelsy in the 1800s to American Idol today, defining mainstreams rather than undergrounds. Pop music performed capitalism, but it also performed democracy. Sorting out that process will be the task.

AMS 340. Women In The South. 3 sem. hrs.
What insights into American experience are afforded by reading nineteenth- and twentieth-century texts in which Southern women engage questions of gender, class, race, labor, and region? This class will explore fictional and nonfictional prose by and about Southern women in order to examine how historical, cultural, and sociopolitical factors have shaped the lives and writings of women in the South. Writing proficiency within this discipline is required for a passing grade in this course.

AMS 341. African American Art. 3 sem. hrs.
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the Women's Movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AMS 351. American Music Theatre History. 3 sem. hrs.
This course provides you with a review of the historical genres, circumstances and catalogue of material that developed the american musical theatre from its ministrel beginnings to the multi-million dollar spectacles of today.

AMS 364. The Beatles Era. 3 sem. hrs.
Interdisciplinary investigation of American culture from the Kennedy assassination in 1963 to the Kent State University massacre in 1970 using the popular cultural explosion of the Beatles as a prism that informs the whole.

AMS 367. The American Game. 3 sem. hrs.
Lecture topics, readings, and classroom discussions will pursue major connections between baseball and American society from 1880 to the present: (1) the modernization of America and the rise of an urban, industrial game; (2) baseball and race; and (3) postwar America and baseball.

AMS 400. Internship. 1-3 sem. hr.
An internship opportunity that combines independent study and practical fieldwork experience focusing on a particular problem or topic related to American culture and experience. Examples are internships in archival fieldwork, material culture fieldwork, museum management, and sound recordings. Credits earned in this course are applicable to the major and minor in American studies but are not counted in 400-level requirement. May be repeated for a maximum of 6 hours.

AMS 401. Black Intellectual Thought. 3 sem. hrs.
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.

AMS 402. Special Topics. 3 sem. hrs.
Selected African American topics for advanced undergraduate students. May be repeated for a maximum of 12 hours.

AMS 403. Honors Research - Ams. 3 sem. hrs.
Internship opportunity that combines guided and independent study with on- or off-campus research experience involving a particular methodological approach to American culture and experience. Examples are social science methods, oral history, original manuscript research, and technology.

AMS 405. Directed Study. 1-3 sem. hr.
May be repeated for a maximum of 6 hours.

AMS 406. Directed Study. 1-3 sem. hr.

AMS 407. Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 412. On The Road. 3 sem. hrs.
This course seeks to introduce the breadth and power of the travel culture that defines "America" and examines enduring features when writers take to the open road in America. Writing proficiency within this discipline is required for a passing grade in this course.

AMS 415. Service Learning. 3 sem. hrs.
Course examines immigrant journey and life in American South to gain an understanding of historical and contemporary issues through research and service.

AMS 416. American Environmental Thought in a Global Context. 3 sem. hrs.
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization. Using accounts from various regions, the course explores evolving conceptions of nature and justice, competing claims about race and class, and changing institutional responses and remedies to environmental degradation in the context of global change. The course is highly interactive, inviting critical thinking about the human place in the physical world.

AMS 421. Writer & Artist in America. 3 sem. hrs.
An examination of the changing social and cultural background of American writers and artists during the 19th and 20th centuries. Topics will include the definition of the developing role of the artist in American culture, and assessment of the American and European influences on artists, and an appraisal of the influence of artists on American culture. Painting, literature, music, photography, and architecture are among the arts dealt with.

AMS 422. Popular Culture in America. 3 sem. hrs.
Survey and analysis of 20th century US popular culture including social context and how it has reflected and shaped American society, including gender, race, class and region.

AMS 423. The Roots of American Music . 3 sem. hrs.
This class surveys American music from ragtime, blues, and hillbilly to Broadway, Hollywood musicals, and swing jazz. Our focus will be on commercial mainstreams and democratic audiences – how selling sound led to different identities being expressed through taste and style. Race, gender, class, sexuality, age, technology, and the music business will all factor as we move from blackface minstrelsy in the 1800s to World War II. We will listen closely to several songs each week, connecting music to larger themes through primary and secondary sources, regular writing, and in-class discussion.
Prerequisite(s): 9 SH American Studies or related courses or permission of the instructor.

AMS 429. America between the Wars. 3 sem. hrs.
Explores first two decades of America's "Modern Times" (1919-1941) when Americans redefined themselves and their society embracing and debating (sometimes hotly) old beliefs, new conceptions, and the implications of a machine-driven, modern-mass society.

AMS 430. Special Topics. 3 sem. hrs.
Selected American topics for advanced undergraduate majors in American studies, offered by American Studies faculty members or Americanists from related departments. May be repeated for a maximum of 6 hours.

AMS 439. Urban Spaces: The Nature of Cities. 3 sem. hrs.
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present. Course readings include classical scholars in urbanism and urban design. Contemporary urban environmental histories explore population shifts and land use along the urban gradient from the suburbs to urban centers, with attention to water, sewer, and transportation infrastucture,pollution, and urban sprawl.

AMS 445. The "Good War". 3 sem. hrs.
Examination of selected topics from the American experience during the Second World War. Topics include the Homefront, the Holocaus, race relations, the emergence of American air power, and the impact of the war on American memory and postwar American society.

AMS 446. Gender and Environment. 3 sem. hrs.
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform. Texts include histories of environmental conceps and reform campaigns, broadly conceived, including slave narratives, accounts of experiences in the women's club movement, the conservation movement, and Progressive Era occupational and public health reform, along with more well-known twentieth centruy nature writers, contemporary scholars, and activists. Particular attention is paid to women whose identities are defined in part by their status as immigrants, women of color, or in other marginalized categories. Case studies explore global environmental reform as well as U.S. experiences.

AMS 460. Race & Ethnicity in US Labor. 3 sem. hrs.
This course is designed to familiarize students with the important topics, themes, and methodologies in the study of race and ethnicity in U.S. labor. Throughout the semester, the class will examine the lives of working women and men and their roles in the social, political, and economic development of the United States. The class will analyze the roll of gender, race, and ethnicity at home and in the workplace and examine how scholars have studied the people, events and institutions in this field.

AMS 465. Fictions of American Identity. 3 sem. hrs.
An examination of American literature and culture from before the Civil War until after the Civil Rights Movement. Representations of American experience in essays, novels, poems, short stories, social reformist tracts, and the visual arts will be studied in the context of social and political debates over slavey, national identity, women's roles, immigration and assimilation, social mobility, urbanization, sexual mores, consumer culture, and race relations.

AMS 470. Native-Whites to 1830. 3 sem. hrs.
This course will focus on the complex and intertwined relationships between Native Americans and white peoples: how each challenged, adapted to, and retreated from the other up to 1830. The class will assess: colonial encounters among Native Americans, Spanish, French, and English; the meanings of white captives among the Indians; crossing over into different cultures and transforming identities in the new nation; and the impact of forced removal of Indians.

AMS 476. Constructing the American Rev. 3 sem. hrs.
From the Declaration of Independence to the Civil War, Americans have continually tried to provide narrative shape and cultural significance to their national orgins. Through the analysis of primary and secondary sources (political tracts, art works, histories, biographies, fiction, and other artifacts), this course will explore the relationship between the eighteenth-century revolutionaries' and their ninetheenth-century heirs' cultural construction of the Revolution. Simply put, this course is about how people in the past have thought about their own past.

AMS 480. Democracy in America. 3 sem. hrs.
Using Tocqueville's observations and fiction, autobiography, painting and politics the course examines how American's present themselves as a democractic people from 1800-1830.

AMS 485. American Exper 1620-1865. 3 sem. hrs.

AMS 486. American Exper 1865-1960. 3 sem. hrs.

AMS 491. American Period Seminar. 3 sem. hrs.
In-depth study of a particular period or era in American historical experience. Recent examples include the Ragtime Era, the Jazz Age, the Great Depression, the Season of 1954-55, the '60s, Contemporary America, the Romantic Revolutionaries (1905-14), the Postwar Era, American Avant Garde, the South and '30s Expression, the Civil Rights Movement, the American '20s, the '50s, America between the Wars, the Colonial Period, the Aspirin Age, Postmodern America, Contemporary America, and Writing West.

AMS 492. American Topic Seminar. 3 sem. hrs.
Study of special topics within the American cultural experience. Recent examples include American Thought, Sports in American Life, American Perspectives on the Environment, the Civil Rights Movement, the Picture Press, Music and Ethnicity, the Politics of Culture, Regionalism, Homelessness in America, American Autobiography, American Monuments, Southern Popular Culture, Politics and Culture, Historical Memory, America by Design, Women in America, Race in America, 19th-Century Popular Culture, and Disasters in America.

Anthropology (ANT) Courses

ANT 100. Intro To Anthropology. 3 sem. hrs.
Introduction to the study of man from an anthropological perspective. Contributions to understanding man from the humanities, as well as the biological, social, and historical sciences are considered.

ANT 102. Intro Cultural Anthropology. 3 sem. hrs.
Introduction to the study of contemporary cultures and societies and the linguistic components of human behavior.

ANT 103. Discoveries In Archaeology. 3 sem. hrs.
This course deals with the major archaeological discoveries made in the past two centuries and their impact on Western thought.

ANT 106. Indians Of North America. 3 sem. hrs.
Comprehensive overview of the prehistory, history, and contemporary culture of native North American Indians.

ANT 107. Intro To Archaeology. 3 sem. hrs.
Overview of the methods archaeologists use to study prehistoric cultures and an introduction to the study of human culture over the past two million years.

ANT 113. Indians Of Deep South. 3 sem. hrs.
Introduction to the Native Americans of Alabama and their nearby neighbors. Focuses on describing and explaining lifeways of indigenous peoples using ethnographic, ethnohistoric, and archaeological studies.

ANT 150. Evolution for Everyone. 3 sem. hrs.
This course is designed to open students minds to what evolution is and how it applies to all life. Toward that end, we will view lectures given by evolutionary scholars from varied institutions and disciplines.

ANT 155. Freshman Seminar. 3 sem. hrs.

ANT 208. Anthropology of Sex. 3 sem. hrs.
This course is an introduction to human sexuality from a biocultural perspective with emphases on sexual diversity and pluralism and psychosexual evolution. It traces the evolution of human sociosexual behavior, including human sexual physiology, preproductive strategies; contemporary courtship, mating and marital patterns; gender differences in the brain and behavior; and sexual and social emotions. It compares the sexuality of humans to non-humans, especially to that of other primates. It also discusses human sexuality from the perspective of different cultures throughout the world. Among other topics, the course will address the psychobiocultural dimensions and implications of attraction, fidelity sex techniques, gender, incest, homosexuality and transexuality and sexually transmitted diseases.

ANT 210. Language And Culture. 3 sem. hrs.
Human activity in its linguistic, cultural, and social contexts; interrelationships between culture and natural language; and the influences of language and culture on thought and behavior.

ANT 215. Anthropology in Movies and Fiction. 3 sem. hrs.
Compares portrayals of anthropologists and core anthropological issues in movies and fiction to anthropological perspectives and scholarship.

ANT 250. Issues in Anthropology. 3 sem. hrs.
This course is a flexible listing designed to cover specific topics in anthropology not already offered through an existing course. It is similar to ANT 450 Problems in Anthropology, but allows students with less exposure to ANT or the particular issues addressed an opportunity to learn more at a more introductory level.

ANT 269. Field Archaeology. 6-12 sem. hrs.
Supervised participation in the excavation and analysis of archaeological deposits.

ANT 270. Intro To Physical Anthropology. 3 sem. hrs.
Introduction to the study of human biological and cultural evolution.

ANT 275. Race, Ethnicity Human, and Variation. 3 sem. hrs.
Historical and contemporary perspectives on human biological diversity, including the concepts of race, ethnicity, adaptation, and some of the social implications of these views.

ANT 311. Population, Health & Human Origin. 3 sem. hrs.
Focuses on the relationships among human ecology, population growth, health and disease, and adaptation in modern and prehistoric societies. Explores the origins of infectious diseases, emphasizing the principles of epidemiology and evolution of pathogens.
Prerequisite(s): ANT 100 or permission of the instructor.

ANT 312. Non-Human Primates. 3 sem. hrs.
This course is an introductory survey of the world's living non-human primates. The focus is on the taxonomy, anatomy, behavior, ecology and cognition of our closest living relatives. It is intended both as a starting point for further coursework in primate behavior and as a survey course for non-science students.
Prerequisite(s): ANT 100 or ANT 270 or permission of the instructor.

ANT 317. Anth-Modern Life. 3 sem. hrs.
Application of anthropological theories and findings to selected issues and problems of living in complex industrialized societies. Offered according to demand.
Prerequisite(s): ANT 100 or ANT 102.

ANT 318. Ancient Cities & Empires. 3 sem. hrs.
A comparative study of ancient cities and empires with examples from the Old and New Worlds.
Prerequisite(s): ANT 100 or ANT 103 or ANT 107.

ANT 319. Ancient New World Civilization. 3 sem. hrs.
An introduction to the ancient civilizations of Mesoamerica and South America. Explores the development of economic and political institutions as well as hieroglyphic texts, art styles, and religious rites.
Prerequisite(s): ANT 107 or permission of the instructor.

ANT 368. Southeastern Archaeology. 3 sem. hrs.
Origin and development of pre-Columbian and early historic cultures of the Southeast. Offered according to demand.
Prerequisite(s): ANT 107.

ANT 401. Linguistic Anthropology. 3 sem. hrs.
Scientific study of natural language – phonology and grammar, lexicon and meaning – and the role of linguistics in anthropological research. Offered according to demand.

ANT 402. Gender Ethnicity & Health. 3 sem. hrs.
Explores the gendered, ethnic, cultural, and class dimensions of sickness worldwide, with attention to the long-term health effects of sexism, racism, and poverty.

ANT 405. Culture Mind And Behavior. 3 sem. hrs.
Cultural and linguistic basis of cognitive organization, systems of folk classifications, and collection and analysis of data of shared cultural and social information. Offered according to demand.

ANT 408. Ancient Mexican Civilization. 3 sem. hrs.
Survey of the origins and development of ancient civilizations in Mexico.
Prerequisite(s): ANT 107.

ANT 409. Ancient Maya Civilization. 3 sem. hrs.
Ancient Maya civilizations in Mexico and Central America from the earliest inhabitants until the Spanish Conquest.
Prerequisite(s): ANT 107.

ANT 411. Culture Health & Healing. 3 sem. hrs.
Survey of health, illness, and healing among and within different cultural systems.

ANT 412. Peoples Of Europe. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of European societies. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 413. Peoples Of Latin Amer. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of Latin American societies.

ANT 414. Peoples Of Africa. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of African societies.

ANT 417. Peoples Of South Asia. 3 sem. hrs.
A review of selected aspects of the customs, social systems, and cultures of South Asian societies.
Prerequisite(s): ANT 100 or ANT 102.

ANT 418. Dev Non-West Cultures. 3 sem. hrs.
Theoretical and descriptive study of social change and development in non-Western societies. Major emphasis is placed on the effects of change on indigenous institutions. Both ethnographic and theoretical literature are examined. Offered according to demand.

ANT 419. Myth Ritual And Magic. 3 sem. hrs.
Survey of the anthropological literature on religion, including such topics as myth, ritual, magic, witchcraft, totemism, shamanism, and trance states. Offered according to demand. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 102 or REL 100.

ANT 421. Ethnography. 3 sem. hrs.
Students work with University Libraries to develop research to address on going changes in information technology and the impact of such changes for UA students. Emphasizes the research design process as practiced by professional, applied anthropologists, including communicating roles and expectations with client stakeholders, developing testable hypotheses, operationalizing variables, and determining project scope, timeline, and budget.
Prerequisite(s): 12 hrs of Anthropology or permission from instructor.

ANT 423. Legal Anthropology. 3 sem. hrs.
Overview of legal systems and practices worldwide, with a focus on current issues of cross-cultural importance.

ANT 424. Cultural Resource Management. 3 sem. hrs.
The theory and strategies of, and processes for, undertaking research within the legal and practical setting of CRM-driven archaeology.

ANT 426. Archaeology of East North America. 3 sem. hrs.
Examination of the origins and developments of pre-Columbian and early historic cultures of eastern North America.
Prerequisite(s): ANT 107.

ANT 431. Readings In Anth. 1-3 sem. hr.
Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 432. Readings In Anthropology. 1-3 sem. hr.
Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 436. Social Structure. 3 sem. hrs.
Social organization and structure, social life and institutions (especially in non-literate societies), kinship, descent groups, marriage, residence, and local group composition. Offered every third semester.
Prerequisite(s): ANT 100 or ANT 102.

ANT 438. Anthropology of Art. 3 sem. hrs.
The course views the art that societies past and present produce; it explores culture, creativity, and human beings' distinctive compulsion to make decorative objects.
Prerequisite(s): ANT 102.

ANT 439. Topics Anthropology Religion. 3 sem. hrs.
An examination of contemporary issues and topics in the anthropology of religion.

ANT 440. Culture. 3 sem. hrs.
A selective review of past and contemporary concepts, theories, and methodological approaches adopted by cultural anthropologists. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 441. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Application and permission of instructor required.

ANT 442. Documenting Justice II. 3 sem. hrs.
Continuation of ANT 441.
Prerequisite(s): ANT 441.

ANT 444. Anthropology And Cemeteries. 3 sem. hrs.
Using approaches developed in the discipline of anthropology and, more particularly, in the subfield of archaeology, an exploration of the different ways in which local cemeteries can yield information on cultural, societal, and historical matters. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 445. Historical Archaeology. 3 sem. hrs.
Combines the methods used in historical archaeology with a basic survey of the archaeological record of the historic period of North America.

ANT 450. Probs In Anthropology. 3 sem. hrs.
Devoted to issues not covered in other courses. May be repeated for a maximum of 6 hours.

ANT 451. Undergraduate Research. 1-6 sem. hr.
Introduction to independant anthropological research with a focus on constructing testable hypotheses, selecting variables, measuring attributes, recording data, making interpretations and writing and presenting results.

ANT 460. Anthro Natural History Museums. 3 sem. hrs.
Examines the historical connections between anthropology and natural history museums in the United States. Explores the present operation of such museums and develops exhibits based on collection studies.

ANT 465. Lithic Analysis. 3 sem. hrs.
Introduction to the basics of analysis of stone tools, their manufacture, and their use by means of microscopic and macroscopic approaches.

ANT 466. Laboratory Methods Archaeology. 3 sem. hrs.
Instruction in the laboratory processing, classification, and elementary data manipulation of archaeological materials.

ANT 467. Methods Prehistoric Iconography. 3 sem. hrs.
An exploration of the concepts and methods used by prehistoric archaeologists to impute meanings in representational art.

ANT 471. Fossil Humans and Evolution. 3 sem. hrs.
Survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution. Offered according to demand.
Prerequisite(s): ANT 270.

ANT 473. Human Osteology. 4 sem. hrs.
Detailed introduction to human osteology emphasizing the identification of fragmentary remains and the criteria for determination of age, sex, and race. Two hours lecture, two hours laboratory. Offered according to demand.
Prerequisite(s): ANT 270.

ANT 474. Neuroanthropology. 3 sem. hrs.
This course provides an introduction to evolutionary and biocultural approaches within anthropology to the central and peripheral nervous systems and their interconnections. Topics include the evolution of the brain; how culture and social structure shape the brain, its development, and its activity; and anthropological perspectives on connections among culture, behavior, brain, mind, and body.
Prerequisite(s): ANT 270 or BSC 300 or PY 413.

ANT 475. Biology, Culture & Evolution. 3 sem. hrs.
An introduction to the biocultural and evolutionary bases of human adaptability. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 270.

ANT 476. Nutritional Anthropology. 3 sem. hrs.
Introduction to anthropological inquiries in nutrition (including food habits, food systems, and dietary variability) from a cross-cultural perspective. Writing proficiency within this discipline is required for a passing grade in this course.

ANT 478. Anthro of Human Development. 3 sem. hrs.
Health culturally competent socialized adults and mature physical forms arise from a developmental process with evolutionary, biological, social and cultural dimensions. We survey child/human development from an anthropological perspective, considering interactons across levels of analysis from genes to culture.
Prerequisite(s): ANT 270.

ANT 479. Human Paleopathology. 3 sem. hrs.
Course investigates skeletal pathology and trauma. Topics included: 1. Understanding disease processes, 2. Distinguishing accidental and violent trauma on bone, 3. Recognizing the following conditions in skeletal remains: congential anomalies, circulatory disorders, joint diseases, infectious diseases, metabolic diseases, skeletal dysplasias, neoplastic conditions, diseases of the dentition and other conditions. Students will inventory, evaluate and analyze sets of human skeletal remains for pathology and trauma and complete final reports on those remains.
Prerequisite(s): ANT 270.

Arabic (ARB) Courses

ARB 101. Elementary Arabic. 4 sem. hrs.
Modern Standard Arabic students will learn the spoken and written language. This course meets five hours per week with an instructor.

ARB 102. Elementary Arabic. 4 sem. hrs.
Course is a continuation of ARB 101 in which the student will learn the spoken and written language meeting five hours a week with an instructor.
Prerequisite(s): ARB 101.

ARB 201. Intermediate Arabic. 3 sem. hrs.
Continuation of Arabic language on the intermediate level. Students who already have basics of Arabic speaking, writing and reading will develop their skills further. The class meets three hours per week.
Prerequisite(s): ARB 102.

ARB 202. Intermediate Arabic. 3 sem. hrs.
Continuation of ARB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without the permission of the CLC director.
Prerequisite(s): ARB 201.

Art History (ARH) Courses

ARH 151. Intro To Visual Arts. 3 sem. hrs.
Not applicable to the studio or art history majors or minors. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.

ARH 252. Survey Of Art I. 3 sem. hrs.
Survey of major examples of painting, sculpture, and architecture from the prehistoric through the medieval periods.

ARH 253. Survey Of Art II. 3 sem. hrs.
Survey of major examples of painting, sculpture, and architecture from the Renaissance through the modern periods.

ARH 254. Survey Of Art III. 3 sem. hrs.
Survey of major examples of painting, sculpture, and the applied arts of India, China, Korea, Japan, and Southeast Asia.

ARH 291. Special Projects. 3 sem. hrs.
This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.

ARH 351. Ancient Art. 3 sem. hrs.
A survey of the contributions of Egypt, Greece, and Rome to the development of Western architecture, sculpture, and painting.

ARH 352. Early Christian Byzantine Art. 3 sem. hrs.
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in the Early Christian West and the Byzantine Empire 312-1453 CE. Attention will be paid to major styles/developments with reference to relevant social, political, religious, historical and technical issues.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 360. Early Medieval Art. 3 sem. hrs.
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in Western Europe between 500-1150 CE. Beginning with backward glances at Roman traditions, special attention is focused on works of art representative of major styles/developments during the focus period with reference to relevant social, political, religious, historical and technical issues.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 361. Late Medieval Art. 3 sem. hrs.
This course considers major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in western Europe between 1100-1350. Beginning with backward glances at earlier visual traditions, attention will be focused on themes including the “Gothic”; ecclesiastical architecture and engineering; artists and their training; book arts and manuscript production; reliquaries and the art of devotion; magnificence at court; crusader art; personal and familial commemoration; and women as patrons and artists. Relevant social, political, religious, historical and technical issues will be addressed in conjunction with these themes.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 363. Masterpieces Of Spanish Art. 3 sem. hrs.
Selected monuments of peninsular Spanish art from the prehistoric period to the contemporary period.

ARH 364. Renaissance Art. 3 sem. hrs.
Survey of 15th- and 16th-century painting, sculpture, and architecture in Europe.

ARH 365. Northern Renaissance Art. 3 sem. hrs.
The art of Flanders and Germany in the 15th and 16th centuries.

ARH 367. Art Patronage Florence. 3 sem. hrs.
Survey of the art of Florence emphasizing the artists and the patrons, such as the religious orders, guilds, and private families who created the Renaissance style in painting, sculpture, and architecture.

ARH 368. Early Renaissance Art. 3 sem. hrs.
This course provides students with a survey of painting, sculpture and architecture during the early Italian Renaissance in major city centers, concentrating on knowledge of major monuments and artists. Attention will be focused on fourteenth-century traditions, fifteenth-century developments, and major themes important to study of the period (technical innovations, the inheritance and influence of antiquity, the status of the artist, religious and political symbolism, the requirements of patrons and the market, and the impact of social conditions and historical events).
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 369. Later Italian Renaissance Art. 3 sem. hrs.
This course provides students with a survey of painting, sculpture and architecture in the later Italian Renaissance (c. 1480-1580) in major city centers, concentrating on knowledge of major monuments and artists. Beginning with backward glances at the fifteenth century, attention will be focused on sixteenth-century developments and major themes important to study of the period (including Mannerism, the status of the artist, and the impact of religious change on works of art), thus encouraging students to have a long-range view of the traditions behind the focus works.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH 371. Baroque Art South Europe. 3 sem. hrs.
Survey of painting, sculpture, and architecture in 17th-century Italy, Spain, and France. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 373. Baroque Art North Europe. 3 sem. hrs.
Survey of the art of 17th-century Belgium and Holland, with emphasis on the work of Rubens, Rembrandt, and Vermeer. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 375. Nineteenth Century Art. 3 sem. hrs.
Painting and sculpture from the Neoclassical through the Post-Impressionist periods.

ARH 376. American Architecture. 3 sem. hrs.
American architecture from the colonial period to the 20th century.

ARH 377. American Painting & Sculpture. 3 sem. hrs.
American painting and sculpture from the colonial period to the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 378. Art of the African Diaspora. 3 sem. hrs.
This course examines the work of contemporary artists from the African Diaspora produced since 1990, with an emphasis on those associated with the United States. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 381. Art Since World War II. 3 sem. hrs.
Modernist and postmodernist art and architecture from the mid-20th century to the present.

ARH 385. Early 20th Century Art. 3 sem. hrs.
Painting and sculpture from Impressionism to World War II.

ARH 400. Photographic Discourse. 3 sem. hrs.
Study of the history of photography and ideas about photographic practices. Writing proficiency within this discipline is required for a passing grade in this course.

ARH 455. Topics In Asian Art. 3 sem. hrs.
Selected topics in the art of China and Japan.

ARH 456. The Arts Of Buddhism. 3 sem. hrs.
Major movements and styles inherent in the artistic products of India, China, Japan, Southeast Asia, Tibet, and Nepal.
Prerequisite(s): ARH 254 and ARH 355 or ARH 356.

ARH 467. Topics Renaissance Art. 3 sem. hrs.
Selected artists, monuments, and patrons of the Renaissance and the Mannerist period.

ARH 481. Topics 20th Century Art. 3 sem. hrs.
Study of selected themes in modern and contemporary art. May be repeated for a maximum of 12 hours.

ARH 491. Independent Studies. 3 sem. hrs.

Art, Studio (ART) Courses

ART 110. Drawing I. 3 sem. hrs.
Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

ART 130. Design I. 3 sem. hrs.
Introductory course that explores two-dimensional concepts in a variety of processes and media.

ART 131. Design II. 3 sem. hrs.
Introductory course that explores three-dimensional concepts in a variety of processes and media.

ART 153. Digital Creativity. 3 sem. hrs.
This course explores personal creativity while surveying creative practice from early 20th century to today with an emphasis on technology-based art and music.

ART 208. Special Projects. 3 sem. hrs.
Topics not taught in the regular curriculum. May be repeated for a maximum of 9 hours.

ART 210. Drawing II. 3 sem. hrs.
Continuation of Drawing I with emphasis on creative development of visual ideas using traditional and experimental techniques and media.
Prerequisite(s): ART 110.

ART 212. Ceramics. 3 sem. hrs.
Completion of ART 110, ART 130, and ART 131 is recommended before taking this course. Exploration of ceramics media and processes with emphasis on the development of individual concepts.

ART 216. Painting. 3 sem. hrs.
An introductory course designed to strengthen the individual student's awareness of the history and techniques of the craft of painting while exposing the student to contemporary styles and ideas of painting.
Prerequisite(s): ART 110 or ART 130.

ART 218. Photography. 3 sem. hrs.
Study of photography and photographic processes employed as creative media. Basic black-and-white processing and printing.
Prerequisite(s): ART 110 or ART 130.

ART 220. Printmaking. 3 sem. hrs.
Survey of printmaking processes including intaglio, relief, screen print, and lithography.
Prerequisite(s): ART 110 or ART 130.

ART 222. Sculpture. 3 sem. hrs.
Introduction to basic sculptural skills - including plaster, wood, aluminum casting, direct construction, and various mixed materials and techniques - with emphasis on craftsmanship, content, and idea development.
Prerequisite(s): ART 131.

ART 224. Introduction To Digital Art I. 3 sem. hrs.
An introduction to computer-based art making, digital literacy, image processing, and digital printing.
Prerequisite(s): ART 110 or ART 130.

ART 251. Reboot/Remix. 3 sem. hrs.
This course examines contemporary art through its relationship to three familiar popular culture phenomena: gaming and simulated environments; popular music; graphic novels and comics.

ART 302. Color Theory & Application. 3 sem. hrs.
Course focuses on both analytical and intuitive understanding and application of color.
Prerequisite(s): ART 130.

ART 305. Aqueous Media. 3 sem. hrs.
Course focuses on contemporary styles, concepts, and ideas regarding the use of wet media.
Prerequisite(s): ART 210 or ART 216 or ART 220.

ART 309. Navigating The Art World. 3 sem. hrs.
The theory and history of the art institutions that shape artists' careers and practical strategies for sustainable creative opportunities beyond the degree. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ART 110 and ART 210 and ART 130 and ART 131 and ART 212 or ART 216 or ART 218 or ART 220 or ART 222 or ART 224.

ART 310. Figure Drawing. 3 sem. hrs.
Individual exploration of figurative forms in a variety of drawing media and processes.
Prerequisite(s): ART 110 and ART 130.

ART 311. Figurative Modeling. 3 sem. hrs.
Course offers students a chance to explore figurative ceramic modeling and sculpting as it relates to representing a likeness.

ART 312. Ceramics. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 212.

ART 313. Ceramics. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 312.

ART 314. Typography. 3 sem. hrs.
Further development of design methods and processes including typography, image processing, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224.

ART 315. Digital Layout and Production. 3 sem. hrs.
Further development of design methods and processes including grids, page layout, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224.

ART 316. Painting Composition. 3 sem. hrs.
The applied study of pictorial manipulation through color and design principles.
Prerequisite(s): ART 216.

ART 317. Painting Concepts. 3 sem. hrs.
A course designed to increase understanding of subject, meaning and context with the objective of making the transition between guided assignments and personal pursuits.
Prerequisite(s): ART 316.

ART 318. Photography. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 218.

ART 319. Photography. 3 sem. hrs.
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 318.

ART 320. Printmaking. 3 sem. hrs.
Further exploration of intaglio and relief processes with emphasis on both technical and conceptual development.
Prerequisite(s): ART 220.

ART 321. Printmaking. 3 sem. hrs.
Further exploration of lithography and screen print processes with emphasis on both technical and conceptual development.
Prerequisite(s): ART 320.

ART 322. Sculpture. 3 sem. hrs.
Introduction to advanced sculptural thinking and problem solving with assignments geared toward the development of skills and abilities in working with a range of materials and techniques such as metal casting, fabrication, rubber, leather, wood, and stone fabrication.
Prerequisite(s): ART 222.

ART 323. Sculpture. 3 sem. hrs.
Continued development of 3-D thinking and technical skills through assignments addressing a variety of materials and processes, including physics in three dimensions, the illustration of intangible thoughts with physical objects, the relevance of self to sculpture, and an examination of personal aesthetic.
Prerequisite(s): ART 131 and ART 222 and ART 322.

ART 324. Digital Art. 3 sem. hrs.
Projects allow for individual approaches and further development of digital art methods and processes.
Prerequisite(s): ART 224.

ART 325. Monotype/Monoprint. 3 sem. hrs.
Introduction to printmaking using materials and methods based on the students' existing skills with acrylic and/or oil paint mediums.
Prerequisite(s): ART 316.

ART 326. Digital Art: The Narrative. 3 sem. hrs.
Students will explore contemporary structure of narrative (and conversely the non-narrative) by creating, producing, and sharing stories using computer-based tools.
Prerequisite(s): ART 224.

ART 328. Digital Photo. 3 sem. hrs.
This course will explore intermediate aspects of digital photography practice. The course has technical aesthetic and conceptual elements that will be expressed through demonstrations, lectures and assignments/projects. The course culminates with a professional portfolio.
Prerequisite(s): ART 218 and ART 224.

ART 329. Photo-Based Printmaking. 3 sem. hrs.
Printmaking using photographic techniques to create a variety of matrices, including intaglio and screen printing processes.
Prerequisite(s): ART 318.

ART 338. Photographic Studio Lighting. 3 sem. hrs.
The course will present foundational skills in photographic studio lighting. Both natural and artificial light sources will be explored for producing aesthetically and conceptually engaging artworks. A wide range of applications will be explored including still life, portraiture, classic lighting problems, and open creative projects. Experimentation and improvisation is highly encouraged. Topics will reference both historical precedents and contemporary practices. The course will culminate with a portfolio of work.
Prerequisite(s): ART 218 and ART 224.

ART 344. Concepts in Drawing. 3 sem. hrs.
This course covers drawing at the intermediate level, including media, form, content, and theory. This course emphasizes personal direction. This course is designed to encourage student investigation into experimental drawing and contemporary art practices. All topics will be devoted to promoting individual student creativity, mastery of drawing means and techniques, and a further understanding of graphic concerns.
Prerequisite(s) with concurrency: ART 110.

ART 380. Art Museum Practices. 3 sem. hrs.
An overview of art museum practices. Students acquire informed perspectives on the general operations, strategies, policies, and practices inherent in a small art museum.

ART 406. Independent Studies. 3 sem. hrs.
Students may make proposals for projects not taught in the regular curriculum. Proposals must be approved by a sponsoring faculty member and the department chairperson.

ART 408. Special Projects. 3-6 sem. hrs.
Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ART 409. Special Projects. 3-6 sem. hrs.
Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ART 410. Drawing Seminar. 3 sem. hrs.
Self-directed studio practice overseen by the instructor. The student works toward creating a consistent and conceptually sound body of work that investigates contemporary and traditional definitions of drawing.
Prerequisite(s): ART 310 or ART 308 or ART 312 or ART 313 or ART 314 or ART 315 or ART 316 or ART 317 or ART 318 or ART 319 or ART 320 or ART 321 or ART 322 or ART 323 or ART 325 or ART 330 or ART 324.

ART 412. Ceramics. 3-6 sem. hrs.
3 to 6 hours. Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 212 and ART 312 and ART 313.

ART 413. Ceramics. 3-6 sem. hrs.
3 to 6 hours. Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 412.

ART 414. Graphic Design. 3-6 sem. hrs.
3 to 6 hours. Preparation of a graphic design portfolio. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 314 or ART 315.

ART 415. Graphic Design Practicum. 3 sem. hrs.
Partnering agencies with design apprentices for hands-on training. Students are required to work no less than 10 hours per week.
Prerequisite(s): ART 414.

ART 416. Advanced Painting Seminar. 3-6 sem. hrs.
3 to 6 hours. Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 317.

ART 417. Advanced Painting Seminar. 3-6 sem. hrs.
3 to 6 hours. Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.

ART 418. Photography. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 318 and ART 319.

ART 419. Photography. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.
Prerequisite(s): ART 418.

ART 420. Printmaking. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 320 and ART 321.

ART 421. Printmaking. 3-6 sem. hrs.
3 to 6 hours. Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.
Prerequisite(s): ART 420.

ART 422. Sculpture. 3-6 sem. hrs.
3 to 6 hours. Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 222 and ART 322 and ART 323.

ART 423. Sculpture. 3-6 sem. hrs.
3 to 6 hours. Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 422.

ART 424. Digital Art Seminar. 3-6 sem. hrs.
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 324 or ART 314 or ART 315.

ART 425. Digital Art Seminar. 3 sem. hrs.
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 6 hours.

ART 428. Advanced Digital Photography. 3 sem. hrs.
The course will expand upon digital skills for the photographer / digital artist presented in Art 328. This course presents technical, aesthetic and conceptual concerns at an advanced level. Content will be delivered through lecture, demonstrations, workshops, and experiential learning. The primary emphasis is on student-driven production of fully realized artworks. There will be regular critiques to facilitate the creative process. There will be a survey of contemporary photo / digital artists to stimulate ideas, discussion and practices across numerous conceptual themes. The semester will culminate in the production of a final portfolio and works presented for exhibition.
Prerequisite(s): ART 328.

ART 444. Advanced Concepts in Drawing. 3 sem. hrs.
The objectives of this course are to explore the parameters of drawing in a personally directed way and in the broadest possible manner. We will be considering drawing as a visual language in which form and content are interdependent. The project(s) in this course will be overseen by the professor, but are largely self-directed in conception and,resolution. This is considered an advanced course and will include lecture, discussion, in- and out-of-class drawing, readings, and critique. This class is an active learning forum and you will be expected to speak in this class; the development of a lively and dynamic conversation is the collective responsibility of every student.
Prerequisite(s) with concurrency: ART 344.

Arts and Sciences (AS) Courses

AS 100. EC Continuous Enrollment. 0 sem. hrs.
Used as a course designation for all students enrolled in Early College.

AS 101. Freshman Compass: Arts & Scien. 1-2 sem. hr.
An orientation course designed to introduce students to the University and the College of Arts and Sciences and to assist in academic planning. Open to freshmen. May be repeated for a maximum of 4 hours. Pass/fail.

AS 102. Compass: Arts & Sciences. 1 sem. hr.
A continuation of AS 101 for students in living-learning communities. Pass/fail.
Prerequisite(s): AS 101.

AS 299. Junior Seminar. 1 sem. hr.
Seminar for premedical, prelaw, and undecided juniors and seniors.

Astronomy (AY) Courses

AY 101. Intro To Astronomy. 3 sem. hrs.
History of astronomy, the solar system, stars, galaxies, and the universe; recent discoveries about pulsars, black holes, and quasars will be discussed. NOTE: If the student plans to apply AY 101 toward satisfaction of the N requirement of the University Core Curriculum, AY 102 must also be taken.

AY 102. Intro Astronomy Lab. 1 sem. hr.
Observation of the sun, moon, and daytime astronomical activity. Indoor exercises include stellar spectra, H-R diagram, celestial sphere, and astronomical photographic analysis. NOTE: If the student plans to apply AY 102 toward satisfaction of the N requirement of the University Core Curriculum, AY 101 must also be taken.
Prerequisite(s) with concurrency: AY 101.

AY 155. Life in the Universe. 3 sem. hrs.
“Life in the Universe” is a survey of the new and rapidly-developing interdisciplinary science of Astrobiology for the non-science major. This science brings the tools of astronomy and biology, as well as geology and chemistry, to attempt to answer questions like: How did life start on the Earth? Did life start elsewhere in our Galaxy? If there is life on other planets, how would we recognize it? Students taking this course will be introduced to the science of Astrobiology, the process of science, scientific thinking, and the fundamentals of astronomical and physical principals used throughout this course. Then students will explore our current state of knowledge and the nature of life on the earth, the geology of the earth as it makes our planet habitable to life, the origin of life on the earth, and the process of evolution. We will then apply this knowledge to the question of whether life currently exists, or could have existed in the past, on other bodies in our solar system including the planets Venus and Mars, the large moons of the planets Jupiter, Saturn and Neptune. We will then probe the effect of the history of our solar system on the habitability of various planets and moons. The final section of the course focuses on the possibilities of life on planets orbiting other stars in our galaxy (and beyond) by summarizing what is known and expected from surveys of planets orbiting other stars, the Search for Extra Terrestrial Intelligence, and the prospects for future interstellar travel.

AY 203. Observational Astronomy. 2 sem. hrs.
Students learn to observe and photograph planets, stars, and galaxies using portable telescopes on campus, the 16-inch telescope of the campus observatory, telescopes located in the darker skies at Moundville, and observatory telescopes in Arizona and Chile by internet control. Both indoor exercises and observing projects are undertaken. Students should normally have completed AY101 or a more advanced astronomy course; people concurrently enrolled in AY101 or AY204 can be admitted with the permission of the instructor NOTE: If the student plans to apply AY 203 toward satisfaction of the N requirement of the University Core Curriculum, AY 204 or AY 206 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 204. Solar System Astronomy. 3 sem. hrs.
This course provides (1) a discussion of orbital mechanics and of the interior structure, surface features, atmosphere, and origin of the sun, planets, and solar system; (2) an understanding of the detection techniques and current census of extrasolar planets; and (3) a discourse on the possibility of life on other planets. NOTE: If the student plans to apply AY 204 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 206. Astron Beyond Solar Syst. 3 sem. hrs.
This course provides (1) an introduction to the physical processes in stars and the evolution of stars that leads to the observed properties of stars; (2) a study of the final endpoints of stellar evolution including the nature and production of white dwarf stars, neutron stars, and black holes; (3) an introduction to the properties of galaxies, galactic dynamics, and star formation in galaxies, and (4) the cosmological model that accounts for the presently observed chemical composition of galaxies and stars, and for the presently observed dynamical structures of the Universe. NOTE: If the student plans to apply AY 206 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

AY 421. Theoretical Astrophysics. 3 sem. hrs.
Introduction to astrophysical processes in stellar atmospheres, stellar structure, stellar evolution, galactic structure, the interstellar medium, active galaxies, and quasars.
Prerequisite(s): PH 253.

AY 433. Astronomical Technique. 3 sem. hrs.
Students will learn to perform astronomical observations with eye, telescope, and modern ,detectors, using techniques of photography, photometry, and spectroscopy. Students will gain familiarity with current software tools for data analysis, model fitting, and error analysis. Students will carry out and report on a complete research project, from concept and data collection to analysis and conclusions. Writing proficiency within this discipline is required for a passing grade in this course.

AY 491. Independent Study I. 1-3 sem. hr.

AY 492. Independent Study II. 1-3 sem. hr.
(refer to AY 491 Independent Study I).

Athletic Training (ATR) Courses

ATR 257. Intro to Athletic Training. 3 sem. hrs.
The study of current principles in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.

ATR 258. Clinical Fundamentals. 1 sem. hr.
The study and practice of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, rehabilitation and reconditioning of injuries and illnesses. Directed observations under the guidance of BOC certified athletic trainers.

ATR 272. First Aid, Safety & CPR. 2 sem. hrs.
The discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children and adults and AED use.

ATR 300. Foundations in Athl. Training. 3 sem. hrs.
Study and discussion of topics and clinical skills related to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Introduction to the organization and administration of athletic training programs.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 310.

ATR 310. Clinical Skills I. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and BSC 215 and NHM 315 and ATR 300
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 300.

ATR 320. Clinical Skills II. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the lower extremities. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and NHM 315 and ATR 357 and BSC 216 and KIN 365
Prerequisite(s) with concurrency: ATR 357 and BSC 216 and KIN 365.

ATR 357. Clinical Evaluation & Diagn I. 3 sem. hrs.
Study of the lower extremities as they relate to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215
Prerequisite(s) with concurrency: BSC 216 and KIN 365 and ATR 320.

ATR 358. Clinical Eval. Diagnosis II. 3 sem. hrs.
Study of the upper extremities as they relate to the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 457 and ATR 410.

ATR 360. Clin Eval & Diagnosis II. 3 sem. hrs.
Study of the head, neck, face, abdomen, thorax and thoracic and lumbar spines as they relate to the preventions; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 420 and ATR 456.

ATR 410. Clinical Skills III. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and ATR 358 and ATR 457
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 457.

ATR 420. Clinical Skills IV. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention, clinical evaluation and diagnosis, immediate care and treatment, and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101 and KIN 492 and ATR 360 and ATR 456
Prerequisite(s) with concurrency: KIN 492 and ATR 360 and ATR 456.

ATR 430. Clinical Skills V. 1 sem. hr.
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well organized athletic training program. Clinical experiences under the direct supervision of Preceptors.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and ATR 454 and ATR 455 and BSC 215 and BSC 215 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 454 and ATR 455.

ATR 453. Appl Clin Res Skills. 3 sem. hrs.
Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings. Offered summer semester.
Prerequisite(s): ATR 300 and ATR 310 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101.

ATR 454. Org. Ad. Athletic Training. 3 sem. hrs.
Current theories, methods and techniques in the organization and administration of athletic training programs.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101.

ATR 455. Pharm Path Athl Training. 3 sem. hrs.
The study of acute and chronic illnesses and their response to and the impact on, physical activity. Discussion of pharmacologic agents used in the management of common acute and chronic illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 454.

ATR 456. Principles of Rehab & Recon. 3 sem. hrs.
Methods, theories and techniques in the rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to rehabilitation and reconditioning.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 360 and ATR 420 and KIN 492.

ATR 457. Therapeutic Modalities. 3 sem. hrs.
Current theories, methods and techniques in the application of therapeutic modalities during the treatment rehabilitation and reconditioning of injuries. The clinical evaluation and diagnosis of injuries relative to therapeutic modalities.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410.

ATR 458. Seminar in Athl. Training. 3 sem. hrs.
Discussion of current issues in athletic training with an emphasis on research and the application of current research to the practice of athletic training. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 430, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457.

ATR 488. Internship in Athl Training. 1-12 sem. hr.
Directed internship in a health care facility for the senior athletic training student.

ATR 490. Anatomical Basis. 3 sem. hrs.
An in depth review of the anatomical structures associated with common orthopaedic injuries. Cadaveric dissection and prosection review activities included.

ATR 496. Ind Study Athletic Training. 1-12 sem. hr.
Independent study of skills and topics in athletic training for the senior athletic training student.

Athletic Training (HAT) Courses

HAT 455. Pharmacology Athletic Training. 3 sem. hrs.

Biological Sciences (BSC) Courses

BSC 108. Intro Biology Non Maj I. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120). Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 109. Intro Biology Non Maj II. 4 sem. hrs.
Lecture and laboratory. Not open to biology majors or minors, or to pre-health professions students. Study of the physiology of living organisms with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. Usually offered fall, spring and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 114. Principles Of Biology I. 3 sem. hrs.
For biology majors, biology minors and pre-health professions students. Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics evolution; and a survey of simple organisms, including viruses, bacteria, protista and fungi. Offered fall, spring and summer. NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 115. Laboratory Biology I. 1 sem. hr.
Prerequisite(s): BSC 114
Prerequisite(s) with concurrency: BSC 114.

BSC 116. Principles Biology II. 3 sem. hrs.
For biology majors, biology minors, and pre-health professions students. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer. NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.
Prerequisite(s): BSC 114 and BSC 118.

BSC 117. Biology II Laboratory. 1 sem. hr.
Prerequisite(s) with concurrency: BSC 116.

BSC 118. Honors General Biology I. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of general biological principles, including the chemical basis of life, cellular biology, genetics, evolution, and a survey of prokaryotic organisms.

BSC 120. Honors Gen Biology II. 4 sem. hrs.
Lecture, discussion period, and laboratory. Thorough study of the structure, function, physiology, and ecology of organisms, including higher and lower plants and vertebrates and invertebrate animals.
Prerequisite(s): (BSC 114 OR BSC 118) AND BSC 115.

BSC 215. Human Anatomy & Physiology I. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes cellular aspects; tissues and skin; the skeletal, muscular, nervous and endocrine systems; and the special senses of sight, hearing, taste, and smell.
Prerequisite(s): BSC 108 or BSC 109 or BSC 118 or BSC 120 or BSC 114 and BSC 115; or BSC 116 and BSC 117; or CH 102 or CH 105 or CH 118.

BSC 216. Human Anatomy & Physiology II. 4 sem. hrs.
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes the respiratory, circulatory, digestive, urinary, and reproductive systems.
Prerequisite(s): BSC 215.

BSC 220. Biol Evol. 3 sem. hrs.
An introductory course on the evidence for evolution, mechanisms of evolutionary change, natural and sexual speciation, and common misconceptions about evolution.

BSC 242. Microbiology And Man. 4 sem. hrs.
For students majoring in nursing, education, and human environmental sciences. Lecture and laboratory. Introduction to microbiology with an emphasis on the relationships between man and protozoa, bacteria, viruses, and fungi. NOTE: Credit will not be granted for both BSC 242 and BSC 310.
Prerequisite(s): CH 101 or CH 104 or CH 117; and CH 102 or CH 105 or CH 118; and BSC 108 or BSC 109 or BSC 114 or BSC 118 or BSC 215 or BSC 216.

BSC 300. Cell Biology. 3 sem. hrs.
The course is designed to provide an understanding of the molecular basis of cell function. Topics include metabolism, gene control, cell membranes, and cell-to-cell signaling.
Prerequisite(s): BSC 114 or BSC 118; and CH 102 or CH 118.

BSC 303. Field Zoology. 3 sem. hrs.
A field-based course with lecture and lab combined. A survey of the taxonomy, ecology, and identification of local biota. Offered irregularly.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 310. Microbiology. 3 sem. hrs.
Lecture and laboratory. Survey course on microorganisms, including protozoa, bacteria, viruses, fungi, and algae. Credit will not be granted for both BSC 310 and BSC 242.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and CH 231.

BSC 311. Gen Bacteriol & Physiol. 3 sem. hrs.
Fundamental course in bacteriology with emphasis on bacterial morphology, physiology, nutrition, and genetics.
Prerequisite(s): BSC 310 and CH 232.

BSC 312. Microbiology Lab. 2 sem. hrs.
General microbiology laboratory to accompany BSC 310.
Prerequisite(s): BSC 310
Prerequisite(s) with concurrency: BSC 310.

BSC 313. Gen Bacteriology Lab. 3 sem. hrs.
Lecture and laboratory. Course presents methods for the isolation, microscopic observation, enumeration, and determination of the biochemical characteristics of bacteria.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 311.

BSC 315. Genetics. 3 sem. hrs.
Study of transmission and function of genes, gene organization, regulation of prokaryotic and eukaryotic genes, and applications of genetics. NOTE: Credit will not be granted for both BSC 309 and BSC 315.
Prerequisite(s): BSC 114 or BSC 118; and CH 101 or CH 117; and CH 102 or CH 118.

BSC 320. Freshwater Studies. 4 sem. hrs.
Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 325. Tropical Plant Diversity. 4 sem. hrs.
The purpose of this course is to familiarize students with the relevant aspects of tropical ecosystems and tropical plants.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120; and BSC 117.

BSC 340. Principles of Natural Resources Conservation. 3 sem. hrs.
Introduces students to basic principles of natural resources conservation, including fundamental concepts in natural resource conservation and management. Examines humanity's past and present impacts on world environments; the influence of culture and the wants, needs, and desires of human beings will be integrated into the material. Discusses conservation of natural resources, including soil, water, air, forests, rangelands, energy, wildlife and fisheries, based on scientific principles.
Prerequisite(s): (BSC 114 and BSC 115 or BSC 118) OR (BSC 116 and BSC 117 or BSC 120).

BSC 360. Plant Biology. 4 sem. hrs.
Lecture and laboratory. Introduction to the biology of embryophytes with emphasis on their development, evolution, and ecology.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 373. Vertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. Introductory course in the study of vertebrate zoology. Subjects included are principles of systematics and nomenclature, a survey of vertebrate taxa, the species concept, analysis of taxonomic characters, and an introduction to zoogeography and behavior.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 376. Invertebrate Zoology. 4 sem. hrs.
Lecture and laboratory. The classification, morphology, evolution, and ecology of invertebrate animals.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 380. Introduction to probability and statistics for biologists. 3 sem. hrs.
This course will provide an introduction to probability and statistical methods that are commonly used in the biological sciences. Practical, real-world examples from biology, ecology, and natural resources management will be used throughout the course. This course is aimed at 300-level students who intend to work with biological data, or anyone interested in statistics. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 125 or MATH 145 and CS 102.

BSC 385. General Ecology. 3 sem. hrs.
A study of the general principles of ecology, covering evolution, autoecology, energetics, nutrient cycling, population dynamics, competition, predation, and community analysis.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145; and BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 386. General Ecology Lab. 2 sem. hrs.
Offered irregularly.
Prerequisite(s): BSC 385
Prerequisite(s) with concurrency: BSC 385.

BSC 390. Honors Thesis Research. 1-8 sem. hr.
Individual research conducted under the direction of an advisor and reported in an acceptable thesis. May be repeated over two to four semesters for a maximum 8 hours.
Prerequisite(s): BSC 315 and BSC 300 and BSC 385BSC 116 and BSC 117; or BSC 120.

BSC 391. Tutorial In Biol Science. 1-2 sem. hr.
Survey of the literature relating to a topic approved by the supervising faculty member; not to include laboratory or field research. A formal paper and/or examination is required. May be taken for one credit hour in each of two consecutive semesters, or for one or two credit hours in any one semester. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 393. Biology Outreach. 2 sem. hrs.
Outreach course that includes survey of the literature relating to a topic approved by instructor. Design of active learning projects to emphasize a basic biological concept and teaching basic science concepts to elementary students.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 396. Resident Study. 1-6 sem. hr.
Prerequisite: Written approval from the department office prior to registration. Credit awarded is determined by the extent of the student's participation but may not exceed 6 hours.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 398. Undergraduate Research. 1-4 sem. hr.
Independent research or research participation. A maximum of 4 hours credit for BSC 398 may be applied to the requirements of the biology and microbiology majors; an additional 4 hours may be taken as elective credit and applied to the 120-hour requirement.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 399. Presentation of UG Research. 2 sem. hrs.
Exploration of the process of presenting research results in different written formats including: abstract, poster, and full journal article. How the needs for clear presentation and response to peer review can inform the experimental process will also be covered.
Prerequisite(s): BSC 398.

BSC 400. Vertebrate Funct Morphol. 4 sem. hrs.
Recommended for pre-health professions students. Lecture and laboratory. The comparative anatomy of the vertebrates with emphasis on functional features of several vertebrate species. Laboratory work deals mainly with identifying anatomical features of several vertebrate species.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 403. Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, formal application, and a satisfactory interview.
Prerequisite(s): BSC 120 or BSC 114 and BSC 115 and BSC 116 and BSC 117.

BSC 404. Honors Intro To Bsc Instruction. 2 sem. hrs.
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, Honors attribute, formal application, and a satisfactory interview.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; and BSC 116 and BSC 117; or BSC 120.

BSC 407. Honors Seminar In Bsc. 1 sem. hr.
Seminar and discussion. In the first semester, students present seminars based on the current literature. In the second semester, students present seminars derived from their honors theses. A maximum of 4 hours of credit for BSC 407 may be applied to the requirements of the biology or microbiology major. Offered according to demand.

BSC 409. Pre-Health Apprenticeship I. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 410. Pre-Health Apprenticeship II. 2 sem. hrs.
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC 412. Limnology. 3 sem. hrs.
Study of freshwater environments and the organisms that live in lakes, ponds, and streams. May be taken with BSC 413 or separately.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

BSC 414. Dendrology. 3 sem. hrs.
Lecture and laboratory. Identification, classification, characteristics, and distribution of the principal forest trees of the United States. Two weekend field trips are required. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120.

BSC 415. Wetland Ecology. 3 sem. hrs.
An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat and plant zonation, and the role of plants in ecosystem function. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 417. Environmental Modeling. 3 sem. hrs.
An integrated study of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving.
Prerequisite(s): MATH 125 and CH 101 or CH 117; and CH 102 or CH 118 and BSC 385.

BSC 420. Principles Of Systematics. 4 sem. hrs.
Introduction to the principles, methods, and applications of systematics to analysis of morphological and molecular data. Includes introduction to biological classifications and nomenclature.
Prerequisite(s): BSC 360 or BSC 373 or BSC 376 or BSC 483.

BSC 424. Human Physiology. 3 sem. hrs.
Topics covered are the digestive, nervous, reproductive, immune, muscular, blood, cardiovascular, respiratory, urinary, and body-fluid systems. May be taken with BSC 425 or separately.
Prerequisite(s): BSC 300.

BSC 425. Human Physiology Lab. 2 sem. hrs.
Hands-on experience for understanding the principles and mechanisms of physiological processes of the human body. Major emphases on organ system performance, whole-body metabolism, and energetics.
Prerequisite(s): BSC 424
Prerequisite(s) with concurrency: BSC 424.

BSC 428. Biology Of Fishes. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 431. Pathogenic Microbiology. 3 sem. hrs.
Study of microorganisms related to health and disease with emphasis on molecular mechanism of pathogenesis. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 432. Pathogenic Mibrobiol Lab. 3 sem. hrs.
Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered in alternate years.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 431.

BSC 434. Plant Systematics. 4 sem. hrs.
Lecture and laboratory. Characteristics and distribution of the major families of vascular plants as well as practice in the collection and identification of flowering plants. One weekend field trip required. Offered in alternate years.
Prerequisite(s): BSC 360.

BSC 435. Immunology. 4 sem. hrs.
Thorough exploration of various aspects of modern immunology at the molecular and cellular levels.
Prerequisite(s): BSC 310.

BSC 436. Immunology Laboratory. 3 sem. hrs.
Practical experience in modern immunological techniques. Offered in alternate years.
Prerequisite(s): BSC 435
Prerequisite(s) with concurrency: BSC 435.

BSC 439. Bch/Molecular Biology Lab. 3 sem. hrs.
Students participate in the generation of new knowledge, thus the experiments vary. Techniques taught include agarose gel electrophoresis, cycle sequencing, sequence analysis, plasmid purification, restriction endonuclease digestion, gel purification of DNA, ligation, transformation, primer design, PCR, gene knockouts, protein fusions, and enzyme assays.
Prerequisite(s): BSC 450.

BSC 441. Developmental Biology. 3 sem. hrs.
The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development.
Prerequisite(s): BSC 300 and BSC 315.

BSC 442. Integrated Genomics. 4 sem. hrs.
An advanced discovery-based laboratory course designed to introduce the process of gene discovery and integrate modern genomics techniques and bioinformatic database usage.
Prerequisite(s): BSC 300 and BSC 315
Prerequisite(s) with concurrency: BSC 315.

BSC 444. General Virology. 3 sem. hrs.
A survey of viruses, viral replication, and viral pathogenesis, including bacterial, animal, and plant viruses. The role of viruses in molecular biology is emphasized.
Prerequisite(s): BSC 300 or BSC 310.

BSC 448. Animal Behavior. 3 sem. hrs.
This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology and economics. However there will be a historical undercurrent which will illustrate the roots of this truly interdisciplinary field.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120; and BSC 385.

BSC 449. Endocrinology. 3 sem. hrs.
A detailed examination of the vertebrate endocrine system that uses a comparative approach to explore intricate relationships between the brain, endocrine glands, hormones and target organs.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 450. Fundamentals of Biochemistry. 3 sem. hrs.
A one-semester survey of protein structure, enzymes, bioenergetics, metabolism and its regulation. Designed for advanced undergraduate students.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120 or ; and BSC 117 and CH 232.

BSC 451. Molecular Biology. 3 sem. hrs.
A one-semester survey of molecular biology that emphasizes gene structure, function, and regulation of expression. Offered spring semester.
Prerequisite(s): BSC 311 or BSC 315; and BSC 450; and CH 462 or.

BSC 456. Microbial Ecology. 3 sem. hrs.
Study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions.
Prerequisite(s): BSC 310 or BSC 385.

BSC 460. Human Developmental Biology. 4 sem. hrs.
Lecture and laboratory. Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis, and functional development. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 464. Biology Of Algae. 4 sem. hrs.
Lecture and laboratory. Freshwater and marine algae: their structure, development, taxonomy, and distribution.
Prerequisite(s): BSC 360 or BSC 310.

BSC 465. Prin Of Toxicology. 3 sem. hrs.
The study of adverse effects of chemicals on living organisms and methods for predicting the likelihood of such effects, including descriptive, mechanistic, and regulatory aspects.
Prerequisite(s): BSC 300 and BSC 315.

BSC 469. Histology Of Vertebrates. 4 sem. hrs.
Lecture and laboratory. Identification of tissue types and components, histogenesis and function of tissues.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300.

BSC 471. Plant Physiology. 3 sem. hrs.
A general survey for upper-level undergraduate students covering all aspects of plant physiology including plant transport, translocation of sugars in plants, plant biochemistry, plant metabolism, plant growth and development, photosynthesis, nitrogen fixation, flowering and plant hormones. The course will consist of lectures, in-class experiments, group discussions, presentations and other activities relating to course material.
Prerequisite(s): BSC 300 and BSC 360.

BSC 472. Mycology. 4 sem. hrs.
Lecture and laboratory. Introduction to the fungi and their biology, including aspects of their structure and function, taxonomy, genetics, and ecology. Offered in alternate years.
Prerequisite(s): BSC 310.

BSC 475. General Entomology. 4 sem. hrs.
Lecture and laboratory. Survey of the structure, function, classification, and habits of insects.
Prerequisite(s): BSC 385.

BSC 476. Aquatic Insects. 4 sem. hrs.
Lecture and laboratory. Survey of aquatic insects with emphasis on their identification, life histories, and ecology. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 480. Plant Ecology. 3 sem. hrs.
This course will examine the ecology of plants at different levels: individual, population and community.
Prerequisite(s): BSC 385 and BSC 360.

BSC 482. Conservation Biology. 3 sem. hrs.
A thorough examination of the principles of conservation biology.
Prerequisite(s): BSC 385.

BSC 483. Evolution. 3 sem. hrs.
Thorough investigation of evolution, including population genetics, molecular evolution, adaptation, and speciation. Offered in the spring semester.
Prerequisite(s): BSC 385 and BSC 315.

BSC 484. Aquatic Biology Seminar. 1 sem. hr.
Review and discussion of current topics in aquatic biology.
Prerequisite(s): BSC 320 and BSC 385; and BSC 412 or BSC 490.

BSC 487. Biogeography. 3 sem. hrs.
Examination of the ecological and historical factors influencing the geographic distribution of plants and animals. Offered alternate years.
Prerequisite(s): BSC 385.

BSC 490. Stream Ecology. 4 sem. hrs.
Lecture and laboratory. Thorough study of the structural (physical and biological) and functional attributes (energy flow, nutrient cycling, community structure) characteristic of stream and river ecosystems. Offered in alternate years.
Prerequisite(s): BSC 385.

BSC 497. Special Topics. 1-4 sem. hr.
A biological sciences topic not covered in other courses. The credit hours and format are determined as appropriate to the topic, and a course title is added to the schedule of classes. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120.

Blount Undergraduate Initiative (BUI) Courses

BUI 100. Convocation. 1 sem. hr.
Experiences to extend and complement the Blount Undergraduate Initiative foundation courses. May be repeated once for credit.

BUI 101. Foundation: Origins. 3 sem. hrs.
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

BUI 102. Foundation: Possibilities. 3 sem. hrs.
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on significant issues in the discourse on human possibilities.

BUI 301. Thematic Seminar. 3 sem. hrs.
A text-centered study of one of the core problems that define the history of ideas in the liberal arts. May be repeated for a maximum of 12 hours.

BUI 401. Blount Capstone Worldviews. 3 sem. hrs.
An examination of the "worldviews" of various epochs and the completion of a senior project. Students learn how individual beliefs about what is actual, what is possible, and what is desirable can be combined into a single unified understanding of the world, and how such a worldview has implications for what we should do and how we should live.

Capstone International Program (CIP) Courses

CIP 200. Introduction To Global Studies. 3 sem. hrs.
Designed as the first course to be taken in the Global Studies Certificate Program (15 hours) to introduce the undergraduate student to the cultural, economic, physical and political aspects of being a world citizen in the 21st century. The emphasis of this course is the contemporary rather than the historical and will set the philosophy for the students' approach to the entire Global Studies Certificate curriculum, both core and emphasis-area courses.

CIP 201. Field Study -- GSCP. 1-3 sem. hr.
CIP 201 is a course which applies the fundamental concepts of cross-cultural interaction. Students will be immersed in a foreign culture where they will be responsible for describing, identifying and evaluating cultural norms.

CIP 401. Out-Going Internation Exchange. 12 sem. hrs.

CIP 402. Abroad Experience. 0 sem. hrs.
Non-credit Abroad Experience.

CIP 403. Out-Going Internation Exchange. 12 sem. hrs.

CIP 405. Out-Going Internation Exchange. 12 sem. hrs.

CIP 407. Cip Int'L Exchange Student. 6 sem. hrs.

CIP 409. Out-Going Internation Exchange. 3 sem. hrs.

CIP 411. Out-Going Internation Exchange. 9 sem. hrs.

CIP 413. Cip Out-Going Enrollment. 3-18 sem. hrs.
CIP out-going independent/direct enrollment, Study abroad student, graduate or undergraduate, in-state or out-of-state student.

Capstone International Program (NSE) Courses

NSE 401. National Student Exchange A. 12 sem. hrs.

NSE 402. National Student Exchange B. 12 sem. hrs.

Chemical and Biological Engineering (CHE) Courses

CHE 125. Intro To Chemical Engineering. 1 sem. hr.
An introduction to the chemical engineering profession, its history and its career-enabling potential. The course contains selected topics, plant visits and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical and petroleum industries. Offered fall semester only.

CHE 225. Chem Biol Engr Soph Honors. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 254. Che Calculations. 4 sem. hrs.
Study of physical and chemical processes and chemical reactions; material and energy balance calculations for single-phase and multiphase systems; simultaneous energy and material balances.
Prerequisite(s): CHE 125 and CH 101 or CH 117; and MATH 125 or MATH 145
Prerequisite(s) with concurrency: CHE 125.

CHE 255. Chem Engr Thermodynamics. 4 sem. hrs.
Chemical calculations using the first and second laws of thermodynamics, including chemical and phase equilibria, multiphase reacting systems, steady-state and non-steady-state material and energy balances. Computer proficiency is required for a passing grade in this course.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146.

CHE 304. Fluid Flow Operations. 3 sem. hrs.
Equations of momentum and energy transport and their applications to the analysis of fluid process behavior, filtration, fluidization and metering of fluids. Offered fall semester only.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146
Prerequisite(s) with concurrency: CHE 254.

CHE 305. Separation Processes. 3 sem. hrs.
Unified approach to the basic calculations and fundamental concepts involved in the design of equilibrium-stage separations processes and continuous contacting equipment. Computer proficiency is required for a passing grade in this course. Offered spring semester only.
Prerequisite(s): CHE 255.

CHE 306. Heat Transfer Operations. 3 sem. hrs.
Study of heat transfer and its application in the design of specific processes and process equipment. Offered fall semester only.
Prerequisite(s): CHE 254 and CHE 304
Prerequisite(s) with concurrency: CHE 304.

CHE 319. Basic Chem Eng Lab. 2 sem. hrs.
Basic chemical engineering measurements and calculations: temperature, pressure, thermal transport rates, fluid flow rates and energy losses, material properties and specifications. Offered spring semester only.
Prerequisite(s): CHE 255.

CHE 320. Operations Laboratory. 4 sem. hrs.
Operations of chemical engineering. Course includes problems and reports based on performance tests. Writing proficiency within this discipline is required for a passing grade in this course. Offered summer semester only.
Prerequisite(s): CHE 305 and CHE 306.

CHE 324. Transport Phenomena. 3 sem. hrs.
Development of the conservation equations for mass, momentum and energy with application to steady-state and transient chemical processes. Computer proficiency is required for a passing grade in this course. Offered fall semester only.
Prerequisite(s): MATH 238 and CHE 255
Prerequisite(s) with concurrency: MATH 238 and CHE 255.

CHE 325. Chemical Honors Forum. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 354. Chemical Reactor Design. 3 sem. hrs.
Reaction rate equations and comparisons with experimental data; use of rate information for the design of chemical reactors.
Prerequisite(s): CHE 255 MA 238.

CHE 412. Polymer Materials Engineering. 3 sem. hrs.
Introduction to the manufacture, processing and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers.
Prerequisite(s): CH 102 or CH 118.

CHE 418. Tissue Engineering. 3 sem. hrs.
Tissue Engineering is an emerging dynamic, experimental science in which engineering and biological science principles are used to develop techniques for improving or restoring the structure and function of tissue.

CHE 425. Chemical Honors Forum. 1 sem. hr.
Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 440. Health Safety Chem Process Ind. 3 sem. hrs.
Health and safety in the chemical process industry that will introduce chemical engineering students to health and safety, regulations and the designs and procedures to meet them in the chemical process. Advanced topics will also be introduced, including current relevant topics such as recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis.
Prerequisite(s): CH 102 or CH 118.

CHE 445. Intro Biochemical Engineering. 3 sem. hrs.
Study of biological processes; application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth and metabolic processes.
Prerequisite(s): CH 231.

CHE 481. Cheml Process Design I. 3 sem. hrs.
Technical and economic design of chemical processes and plants. Offered fall semester only.
Prerequisite(s): CHE 255.

CHE 482. Cheml Process Design II. 3 sem. hrs.
Optimal design of chemical processes and plants. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semester only.
Prerequisite(s): CHE 481.

CHE 491. Special Problems. 1-3 sem. hr.
Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 492. Special Problems. 1-3 sem. hr.
Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 493. Process Dynamics & Control. 3 sem. hrs.
Development of model equations that describe the unsteady-state behavior of chemical processes; automatic control design and analysis emphasizing time-domain methods; introduction to digital computer control. Offered fall semester only.
Prerequisite(s): CHE 255 and MATH 238.

CHE 495. Undergrad Honors Seminar. 1 sem. hr.
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 496. Undergrad Honors Seminar. 1 sem. hr.
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 498. Honors Special Problems. 1-3 sem. hr.
Credit is based on the amount of work undertaken. Research or practical study in a chemical engineering area, the outcome of which is a definite result presented in a report, paper, or manuscript. Instructor permission required.

CHE 499. Honors Special Problems. 1-3 sem. hr.

Chemistry (CH) Courses

CH 101. General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 101 and CH 107 or for both CH 101 and CH 117. A survey of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): MAPL of 467 or higher or ACT of 24 or higher or SAT of 560 or higher or MATH 100 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 100 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

CH 102. General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 102 and CH 105 or both CH 102 and CH 108. Continuation of CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 101 or CH 117.

CH 104. Introductory Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. The course is primarily for students in the Capstone College of Nursing and the College of Human Environmental Sciences; it may not be substituted for CH 101 except with departmental permission. Degree credit is not awarded for both CH 104 and CH 107. An introductory survey of the facts, principles, and theories of chemistry. Usually offered in the fall and summer semesters.

CH 105. Introductory Org Chem. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to chemistry majors or minors or to students who have earned credit for CH 102. Degree credit is not awarded for both CH 105 and CH 102 or both CH 105 and CH 108. The course may not be substituted for CH 101 or CH 102. Brief survey of organic and biochemistry. Usually offered in the spring and summer semesters.
Prerequisite(s): CH 104 or CH 101.

CH 117. Honors General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 101. Degree credit is not awarded for both CH 117 and CH 101 or both CH 117 and CH 107. A comprehensive study of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall semester.

CH 118. Honors General Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 102. Degree credit is not awarded for both CH 118 and CH 102, both CH 118 and CH 105, or both CH 118 and CH 108. Continuation of CH 117 with basic inorganic chemistry. Includes a systematic study of the elements and of the structures, properties, and reactions of their compounds. Usually offered in the spring semester.
Prerequisite(s): CH 117.

CH 155. Forensic Science. 3 sem. hrs.
This course will present an overview of forensic science. The course will focus on processing a crime scene as well as other topics used to connect a suspect to a given crime.

CH 223. Quantitative Analysis. 4 sem. hrs.
Three lectures and one three hour laboratory. Comprehensive course covering classical methods of quantitative analysis as well as an introduction to electrochemical, spectroscopic and chromotographic methods. Usually offered in the fall, spring and summer semesters.
Prerequisite(s): CH 102 or CH 118.

CH 231. Elem Organic Chemistry I. 3 sem. hrs.
Three lectures. The course is an introduction to the theory and principles of organic chemistry. Topics include organic structure, syntheses, and analyses. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 102 or CH 118.

CH 232. Elem Organic Chem II. 3 sem. hrs.
Three lectures. This course is a continuation of CH 231. Usually offered in the fall, spring, and summer semesters.
Prerequisite(s): CH 231.

CH 237. Elem Organic Chem Lab. 2 sem. hrs.
A one-hour lecture and five-hour laboratory. Designed for chemistry majors and chemistry minors to take concurrently with CH 232. Usually offered in the fall, spring, and summer sessions.
Prerequisite(s): CH 231
Prerequisite(s) with concurrency: CH 232.

CH 338. Elem Organic Chem Lab II. 2 sem. hrs.
A one-hour lecture and five-hour laboratory. The course is designed for chemistry majors. Usually offered in the fall semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 232 and CH 237.

CH 340. Elem Physical Chem. 3 sem. hrs.
Three lectures. This course is designed for students in the pre-health professional degree or pursuing the chemistry minor and is a study of the application of physical chemical concepts in biological systems. It is a
Prerequisite(s): CH 223 and PH 102 or PH 106 or PH 126.

CH 341. Physical Chemistry. 3 sem. hrs.
Three lectures. The course is designed for chemistry majors and is a study of the structure and properties of matter with emphasis on theoretical principles and their mathematical interpretation. Usually offered in the fall semester.
Prerequisite(s): CH 223 and PH 106 or PH 126; and MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 227 or MATH 247.

CH 342. Physical Chemistry. 3 sem. hrs.
Three lectures. The course is designed for chemistry majors. Continuation of CH 341. Usually offered in the spring semester.
Prerequisite(s): CH 341.

CH 343. Elem Phy Chem Lab. 1 sem. hr.
One three-hour laboratory. The course is designed to be taken concurrently with CH 340. Usually offered in the fall semester.
Prerequisite(s) with concurrency: CH 340.

CH 348. Physical Chemistry Lab. 2 sem. hrs.
6 hours of laboratory. The course is designed to be taken concurrently with CH 342. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 341
Prerequisite(s) with concurrency: CH 342.

CH 396. Undergrad Research. 1-3 sem. hr.
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 398. Undergrad Research. 1-3 sem. hr.

CH 399. Undergrad Research. 1-3 sem. hr.
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 405. Medicinal Chemistry. 3 sem. hrs.
Fundamental considerations in drug design. Includes lead discovery, target identification and validation, pharmacodynamics, pharmacokinetics and metabolism, and formulations/drug delivery systems. Chemical modifications to improve efficacy and pharmacokinetics will be emphasized.,
Prerequisite(s): BSC 300 and CH 232 and CH 461.

CH 409. Organometallic Chemistry. 3 sem. hrs.
Survey of the typical reactions of organotransition metal complexes with a focus on the fundamental mechanisms of these reactions and the application of organometallic catalysts.
Prerequisite(s): CH 341 or CH 401 or CH 413.

CH 410. Scientific Glassblowing. 3 sem. hrs.
The course introduces students to the fundamentals of scientific glassblowing through hands-on training. Usually offered during Interim.

CH 413. Inorganic Chemistry. 4 sem. hrs.
Three lectures and one three-hour laboratory. Survey in areas of coordination, main-group, and organometallic chemistry. Laboratory experiments involve the preparation, purification, and identification of inorganic compounds. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 341.

CH 424. Instrumental Analysis. 4 sem. hrs.
Two lectures and one five-hour laboratory. The course covers the general operating principles of the commonly used analytical instruments with an emphasis on theory. Wherever possible, mathematical interpretations and derivations are given. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 223 and CH 341
Prerequisite(s) with concurrency: CH 348.

CH 435. Inter Organic Chem. 3 sem. hrs.
Three lectures. The course is designed to familiarize the student with mechanistic and synthetic organic chemistry. Usually offered in the fall semester.
Prerequisite(s): CH 232 and CH 342.

CH 449. Atom & Mole Structures. 3 sem. hrs.
Three lectures. Introduction to quantum mechanics and statistical thermodynamics. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 342 and CH 348.

CH 461. Biochemistry I. 3 sem. hrs.
Three lectures. Survey of the physical and chemical properties of the molecular components and methods of isolating and analyzing them. Usually offered in the fall semester.
Prerequisite(s): CH 223 and CH 232 and CH 237.

CH 462. Biochemistry II. 3 sem. hrs.
Three lectures. Survey of the principal pathways of carbon, nitrogen, and energy metabolism and clinical and forensic chemistry. Usually offered in the spring semester.
Prerequisite(s): CH 461 or BSC 300.

CH 463. Biochem-Clin/Foren/Chem. 3 sem. hrs.
One lecture and one six-hour laboratory. Biochemical techniques within the structure of a semester-long research project. Topics include protein purification and chromatography, spectroscopy, electrophoresis, kinetics, and DNA manipulation. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 461
Prerequisite(s) with concurrency: CH 462.

CH 491. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 492. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 493. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 494. Honors Research Sem. 1 sem. hr.
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 497. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 348 and CH 342.

CH 498. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348.

CH 499. Intro To Research. 1-3 sem. hr.
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348.

Chinese (CHI) Courses

CHI 101. Elementary Chinese. 4 sem. hrs.
Contemporary National Language (Mandarin): speaking, reading, and writing. The class meets five hours per week.

CHI 102. Elementary Chinese. 4 sem. hrs.
This is a continuation of Chinese language on the elementary level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension.
Prerequisite(s): CHI 101.

CHI 201. Intermediate Chinese. 3 sem. hrs.
This is a continuation of Chinese language on the intermediate level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension. Offered in the fall semester.
Prerequisite(s): CHI 101 and CHI 102.

CHI 202. Intermediate Chinese. 3 sem. hrs.
This is the second semester of intermediate Chinese. Offered in the spring semester.
Prerequisite(s): CHI 201.

CHI 301. Intermediate Chinese. 3 sem. hrs.
Study of contemporary Chinese language and literature. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 302. Intermediate Chinese. 3 sem. hrs.
Study of contemporary Chinese language and literature. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 350. Traditional Chinese Lit Trans. 3 sem. hrs.
Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.

CHI 351. Modern Chinese Lit Trans. 3 sem. hrs.
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

CHI 353. Conversation/Composition. 1-4 sem. hr.
Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.
Prerequisite(s): CHI 202.

CHI 354. Conversation/Composition. 1-4 sem. hr.
Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.
Prerequisite(s): CHI 202.

CHI 401. Classical Chinese Language. 3 sem. hrs.
Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.
Prerequisite(s): CHI 202.

CHI 402. Literary Chinese Language. 3 sem. hrs.
Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.
Prerequisite(s): CHI 202.

Civil, Construction and Environmental Engineering (CE) Courses

CE 121. Intro Civil Constrctn Envir Eg. 1 sem. hr.
Introduce the student to the areas of professional, civil and environmental engineering practices with exposure to faculty members specializing in each area, solving typical problems in each professional area, learning of the activities of service organizations, and the responsibilities of professional practice.

CE 220. Society Infrastruct & Environm. 3 sem. hrs.
Permitting, environmental impact statements and other environmental issues associated with human activities and engineering projects.

CE 260. Civil & Construction Surveying. 0-2 sem. hrs.
Precise measurement of lengths, angles, areas, and elevations in geodetic systems; computation of construction control, including highway alignment and land areas.
Prerequisite(s): (ENGR 161 or ENGR 171 or ART 131) and Math 115 or (Math 112 and Math 113) or ACT 30 or SAT 680 or PLMA 440 or PLAC 565.

CE 262. Civil & Constructn Engr Matls. 0-3 sem. hrs.
Introduction to the engineering properties of structural materials, including steel, wood, aggregate, concrete and asphalt, including experimental testing procedures and interpretation of results.
Prerequisite(s): AEM 201 or ESM 201; and
Prerequisite(s) with concurrency: AEM 250.

CE 270. Climate and Climate Change: European Alps. 4 sem. hrs.
The course focuses on hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA.

CE 320. Intro Environmental Engineerg. 3 sem. hrs.
Introduction to the scientific and engineering principles needed to analyze and solve environmental engineering problems, and lab experience in the practice of environmental engineering related to air, water and waste water management. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 101 OR CH 117 min grade of C-
Prerequisite(s) with concurrency: AEM 311 and CHE 304.

CE 331. Intro to Structural Eng. 3 sem. hrs.
Introduction and principles of structural analysis of determinate and indeterminate structures. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250 and CE 262.

CE 340. Geotechnical Engineering. 4 sem. hrs.
Static and dynamic interaction of soil and water; theories of stress distribution, consolidation, strength and failures; stability of soil structures.
Prerequisite(s): CE 262 and AEM 250.

CE 350. Intro. to Transportation Eng. 3 sem. hrs.
An introduction to different modes of transportation with emphasis on roadway and traffic engineering. Topics include transportation economics and planning, highway geometric and pavement design, drainage, construction, traffic control devices, traffic operations, and management and highway capacity analysis.
Prerequisite(s): CE 260 GES 255.

CE 366. Introduction to Construction Engineering. 3 sem. hrs.
Applying engineering economic principles to construction and engineering problems; construction management processes and methods in planning, scheduling, and monitoring engineering projects.
Prerequisite(s): CE 262.

CE 378. Water Resources Engineering. 3 sem. hrs.
Mechanics of steady and unsteady flow in closed and open conduits, hydrology; water supply and wastewater disposal. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Dynamics (AEM 264) and Fluid Mechanics (AEM 311); or Fluid Flow Operations (ChE 304).

CE 401. Civil Eng. Des. Prj. Site Dev. 4 sem. hrs.
Use of software to design projects in teams, prepare construction drawings and deliver engineering reports. This class is normally taken during the last term on campus. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): CE 320 with a minimum grade of C- And CE 350 with a minimum grade of C- And CE 378 with a minimum grade of C- And Six (6) credit hours of 400- or 500- level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 424 or CE 524 CE 425 or CE 525 CE 427 or CE 527 CE 442 or CE 542 CE 451 or CE 551 CE 457 or CE 557 CE 459 or CE 559 CE 475 or CE 575 CE 485 or CE 585.

CE 402. Constr. Eng. Proj. Site Dev. 4 sem. hrs.
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): CE 340 and CE 366 and (CE 320 or CE 350 or CE 378) and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ Concurrency: At least two of the following construction design-designated (CD) courses: CE 442 or CE 542 CE 457 or CE 557 CE 459 or CE 559 CE 461 or CE 561 CE 485 or CE 585.

CE 403. Civil Eng. Prj. Bld. Design. 4 sem. hrs.
Students use software to design building projects in teams, prepare construction drawings and deliver engineering reports. Required for minor in architectural engineering. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Prereq: CE 331 and CE 340 and CE 366 and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ Concurrency: At least two of the following design-designated (D) electives: CE 433 CE 434 CE 436 or CE 536 CE 437 or CE 537 CE 438 or CE 538 CE 439 or CE 539 CE 444 or CE 544 CE 462 or CE 562.

CE 404. Constr. Eng. Prj. Bldg. Des. 4 sem. hrs.
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Prereq: CE 331 and CE 340 and CE 366 and a minimum of six credit hours of any 400- or 500- level CE courses Prereq w/ concurrency: At least two of the following construction design-designated (CD) courses: CE 433 CE 434 CE 436 or CE 536 CE 437 or CE 537 CE 438 or CE 538 CE 439 or CE 539 CE 444 or CE 544 CE 462 or CE 562.

CE 414. Information Systems Design. 3 sem. hrs.
An overview of management information systems (MIS). The course will focus on the practical aspects, applications and methodology or MIS, particularly from the construction engineer's perspective. Information design methodology and building information modeling (BIM) will be covered in detail.
Prerequisite(s): CE 366.

CE 417. Advanced Project Management. 3 sem. hrs.
This is an engineering management course designed to introduce students to the functions of project engineering and managers. It details the processes of planning and controlling project scope time and cost.
Prerequisite(s): CE 366 or IE 203
Prerequisite(s) with concurrency: GES 255.

CE 418. Engineering Management. 3 sem. hrs.
An introduction to management principles and the management functions of planning, organizing, motivating and controlling. Management of engineers in research, design, manufacturing/construction and quality will be studied.
Prerequisite(s): CE 366.

CE 422. Solid And Hazardous Waste Mgt. 3 sem. hrs.
Engineering design and regulatory requirements for the collection, storage, recycling, treatment and disposal of solid wastes.
Prerequisite(s): CE 320.

CE 423. Hazrdous Chem Releasd to Envir. 3 sem. hrs.
Chemical fate and transport in the environment. Frequency and magnitude of accidents involving hazardous materials. Effects of these releases on the community.
Prerequisite(s): CE 320 and CE 378 and CE 425.

CE 424. Water And Wastewater Treatment. 3 sem. hrs.
Physical, chemical and biological principles and design of municipal water and wastewater treatment units.
Prerequisite(s): CE 320.

CE 425. Air Quality Engineering. 3 sem. hrs.
This is an introductory course in Air Quality Engineering. We have to major foci. The first is to understand and evaluate our air resources and air quality (as related to human and environmental health) in terms of fundamental principels and design processes. The second is to introduce the student to a varity of air pollution issues and engineered treatment processes.
Prerequisite(s): AEM 311 or CHE 304; and CE 320.

CE 427. Storm Water Management. 3 sem. hrs.
Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics, Selection and design of controls; regulations.
Prerequisite(s): CE 378 and CE 475.

CE 430. Design of Masonry Structures. 3 sem. hrs.
Design of un-reinforced and reinforced masonry walls, columns, pilasters, beams and lintels.
Prerequisite(s): CE 331.

CE 432. Adv Structural Analysis. 3 sem. hrs.
Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.
Prerequisite(s): CE 331.

CE 433. Reinf Concrete Struct I. 3 sem. hrs.
Concrete materials, placement of concrete and theory and design of reinforced beams, girders, slabs, columns and footings.
Prerequisite(s): CE 331.

CE 434. Structural Steel Design I. 3 sem. hrs.
Theory and design of structural steel members and their connections.
Prerequisite(s): CE 331.

CE 436. Wood Structural Design. 3 sem. hrs.
Modern timber engineering: design of beams, columns, trusses and floor systems.
Prerequisite(s): CE 331.

CE 437. Reinforcd Concrete Struct II. 3 sem. hrs.
Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slap-on-grade and retaining walls.
Prerequisite(s): CE 433.

CE 438. Struct Steel Design II. 3 sem. hrs.
Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multistory buildings, highway bridges and light-gauge steel structures.
Prerequisite(s): CE 434.

CE 439. Design of Masonry Structures. 3 sem. hrs.
Design of un-reinforced masonry walls, columns, pilasters, beams and lintels.
Prerequisite(s): CE 331.

CE 442. Waste Containmnt Facilty. 3 sem. hrs.
Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics and aspects of landfill design.
Prerequisite(s): CE 340 and CE 320.

CE 444. Foundation Engineering. 3 sem. hrs.
Analysis and design of soil foundation systems.
Prerequisite(s): CE 340.

CE 451. Geometrc Design Roadways. 3 sem. hrs.
Application of the principles of geometric design: alignment, vertical control, drainage, traffic control, interchanges and intersections. Design projects will be prepared to illustrate standard techniques.
Prerequisite(s): CE 350.

CE 452. Traffic Safety Transptn Secur. 3 sem. hrs.
Introduction to traffic safety techniques: site identification, data gathering and analysis, accident reconstruction, safety treatment selection, resource prioritization, and design projects.
Prerequisite(s): CE 350.

CE 454. Urban Transportation Planning. 3 sem. hrs.
The course will provide a foundation in urban transportation planning, including an introduction to the planning process, software associated with transportation modeling and conducting transportation planning and traffic impact studies.
Prerequisite(s): CE 350.

CE 456. Transportation System Anyls. 3 sem. hrs.
This course integrates the basic concepts and tools of systems analysis, including those from microeconomics, optimization, project evaluation and decision-making into the context of transportation planning and management.
Prerequisite(s): CE 350.

CE 457. Pavemnt Design/Construct. 3 sem. hrs.
The thickness design of base, subbase, asphalt and concrete layers for highway pavements, including both design and construction aspects.
Prerequisite(s): CE 350.

CE 458. Traffic Engineering. 3 sem. hrs.
Vehicle operating characteristics, traffic flow, geometric design of road and intersections, and methods of traffic control.
Prerequisite(s): CE 350.

CE 459. Pavement Design and Rehabilitation. 3 sem. hrs.
This course covers two areas concerning care of existing highway asphalt and concrete pavements. Major maintenance includes overlay design, additional drainage, recycling and slab repair. Routine maintenance includes distress surveys, pothole repair, and crack and joint sealing.
Prerequisite(s): CE 350 or CE 366.

CE 460. Front End Planning. 3 sem. hrs.
Principles and applications for effective, early planning of capital facilities including: finance, economics decision-making, risk management, team alignment and front end planning processes and tools.
Prerequisite(s): CE 366.

CE 461. Horizontl Construction Methods. 3 sem. hrs.
Introduction to horizontal construction equipment and methods, design of horizontal construction systems and construction operation analysis and simulation.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 340.

CE 462. Vertical Construction Methods. 3 sem. hrs.
Introduction to vertical construction equipment and methods, design of vertical construction systems and construction operation analysis and management processess.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 331.

CE 463. Construction Cost Estimating. 3 sem. hrs.
Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tools and techniques, contingency planning, and relationship to contract types and project execution strategies.
Prerequisite(s): CE 366.

CE 464. Safety Engineering. 3 sem. hrs.
An introduction to safety management and accident prevention, including state and federal laws related to general and construction projects. Topics include accident theories, safety regulations, Construction Safety act, hazards and their control, human behavior and safety and safety management.
Prerequisite(s): CE 366GES 255 and CE 366.

CE 467. Constr. Accounting & Finance. 3 sem. hrs.
Financial management of construction projects. Topics include alternative selection, life-cycle analysis, applied financial management techniques, insurance/ indemnification, risk management and tax implications.
Prerequisite(s): CE 366.

CE 468. Construction Scheduling. 3 sem. hrs.
The management structure of construction companies and the laws, regulations, practices, tools, and processes used in planning, scheduling, and monitoring construction projects. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): CE 366.

CE 470. Water Resources in the European Alps. 4 sem. hrs.
The course focuses on statistical hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of statistical software to analyze hydrologic datasets, the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA.

CE 475. Hydrology. 3 sem. hrs.
Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology and hydrologic simulation. Includes a class project with application to flood control, water supply and multipurpose projects.
Prerequisite(s): CE 378.

CE 480. Forensic Engineering. 3 sem. hrs.
When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.
Prerequisite(s): AEM 250.

CE 481. Legal Asp. of Eng and Const. 3 sem. hrs.
Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CE 262 and CE 301 or CE 320 or CE 324 or CE 331 or CE 340 or CE 350 or CE 366 or CE 378.

CE 484. Exp. Design & Field Sampling. 3 sem. hrs.
Experimental design, sensitivity analyses, water sampling and flow monitoring. Receiving water chemical reactions. Field investigations.
Prerequisite(s): CE 320 and GES 255.

CE 485. Const. Site Erosion Control. 3 sem. hrs.
Nature and magnitude of erosion problems. Erosion plan development. Rainfall energy and erosion predictions. Sediment transport in urban areas. Channel and slope stability. Sedimentation and other controls.
Prerequisite(s): CE 378.

CE 491. Special Problems. 1-3 sem. hr.
Credit is based on the amount of work undertaken. Analysis and/or design in any phase of civil engineering. The course is intended to take care of needs not covered by regularly offered courses.

Classics (CL) Courses

CL 222. Greek Roman Mythology. 3 sem. hrs.
Introduction to classical mythology itself and the principal Greek and Roman myths. Offered each semester.

CL 235. Christian Church To 1500. 3 sem. hrs.
Same as HY 235.

CL 323. Alexander the Great, Then & Now. 3 sem. hrs.
We will study the journey and conquests of Alexander the Great as a historical and cultural event. His expedition took him from Greece, through the countries of the Middle and Near East, all the way to India. Many Western leaders (including Americans) have tried to repeat Alexander's achievement with limited success. Our exploration will look at the reasons of subsequent failures, among other issues.

CL 350. Roman Religion. 3 sem. hrs.
Survey of the rites and structure of ancient Roman cult with special emphasis on the Roman religious calendar and the clash between paganism and Christianity. Writing proficiency within this discipline is required for a passing grade in this course.

CL 365. Greece & Rome in Film. 3 sem. hrs.
This course integrates literature, history, and film. Many of the films we watch attempt to reconstruct the ancient world to some degree of accuracy, while others are inspired by themes of ancient literature, but without regard to historic authenticity. Students read several primary sources to help them discern inauthentic elements or appreciate good interpretations in film.

CL 380. Special Topics. 3-6 sem. hrs.
Detailed investigations of specific aspects of Greco-Roman civilization such as ancient drama, women's lives, ancient religion, and technological achievements.

CL 384. Ancient Egypt Near East. 3 sem. hrs.
Introduction to Egypt's ancient history (from the pyramids to the Ptolemies), with emphasis on the civilization's contributions to Western heritage.

CL 385. History Of Greece. 3 sem. hrs.
Survey of the history of Greece from earliest times to the death of Alexander the Great, with emphasis on the Golden Age.

CL 386. History Of Rome. 3 sem. hrs.
Introduction to the ancient history of Rome, with emphasis on the Republic from its Etruscan beginnings to the Second Punic War, and on the golden age of Caesar Augustus at the beginning of the Roman Empire.

Clothing, Textiles and Interior Design (CTD) Courses

CTD 102. Applied Design. 3 sem. hrs.
Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD 121. Intro Interior Design. 3 sem. hrs.
Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two laboratory one lecture
Prerequisite(s) with concurrency: DR 135.

CTD 215. Introduction to Rendering. 3 sem. hrs.
An introduction to achromatic and contemporary color graphics media used in sketching, rendering and design drawings, with emphasis on schematics used in problem solving and rapid rendering techniques for interior delineation.
Prerequisite(s): CTD 121.

CTD 216. Beginning Weaving. 3 sem. hrs.
Study of original design in loom weaving techniques; dressing the loom; drafting designs; and weaving and finishing procedures. Offered irregularly. Two laboratories.

CTD 217. Fashion Illustration. 3 sem. hrs.
Emphasis is on the development of the fashion figure, design details, fabric rendering, flats, customer profile analysis, and collection development. In addition, students using advanced computer design software, create original digital design layouts of their work. Two lectures, one laboratory.
Prerequisite(s): CTD 102 and ART 110.

CTD 221. Matl Source Int Design. 3 sem. hrs.
Study of manufacturers' products for residential and nonresidential interior design; construction materials, finishes, furniture and furnishings. Offered in the fall semester.

CTD 225. Residnt Des/Graphic Comm. 3 sem. hrs.
Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of programming, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 121 DR 135 or Permission of Instructor
Prerequisite(s) with concurrency: DR 135 and CTD 121.

CTD 226. Nonresidential Design. 3 sem. hrs.
Fundamentals of nonresidential interior design with emphasis on presentation graphics. Exploration of programming, spatial organization, and codes and standards for the business environment. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 225.

CTD 231. Sewn Products Analysis. 3 sem. hrs.
Structural analysis of textile products for apparel and household use. Focus on products, standards, specifications, and relationships among performance, quality, and price.
Prerequisite(s): CTD 261.

CTD 241. Apparel Construction. 3 sem. hrs.
Introduction to apparel producer-retailer relationships. Emphasis on quality control and time management in meeting apparel specifications through application of apparel construction, fitting, and pattern alteration principles. Two laboratories.

CTD 245. Apparel Production. 3 sem. hrs.
Team approach to apparel product development including market research, design concepts, garment specification writing, sourcing, costing, production, quality control, and promotional materials. Offered in the spring semester. Two laboratories.

CTD 250. Construction Procedures for Interior Design. 3 sem. hrs.
Building construction for interior designers with emphasis on architectural procedures and systems including electrical, plumbing, lightning, acoustical, and thermal control. Includes introduction to Revit software
Prerequisite(s): CTD 226.

CTD 255. Comp Appl for Interior Design. 3 sem. hrs.
This course will provide students with a basic understanding of computer software applications and project documentation commonly used in interior design. Software introduced includes: Photoshop, InDesign, Sketchup, and 3D Studio Max. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CTD 226 CS 102.

CTD 261. Textiles. 3 sem. hrs.
Characteristics of the textile industry, fibers, yarns, fabric construction, and finishes. Selection, care, and performance characteristics.

CTD 281. Fashion Retailing I. 3 sem. hrs.
Organization, promotion methods, and interrelationship of the textiles, apparel, and retailing industries. Includes consumer demand and diffusion of fashion. Offered in the fall semester.

CTD 300. New York Study Tour. 3 sem. hrs.

CTD 301. I. D. New York Study Tour. 3 sem. hrs.

CTD 312. Advanced Computer Applications. 3 sem. hrs.
This course will provide students with an advanced understanding of computer software applications and project documentation commonly used in interior design. The skills are presented in a format that emphasizes use of the computer as a creative tool. Computer Software used in class: Photoshop and Revit. Extensive use of the computer is a condition for passing the class.

CTD 319. Textile Design. 3 sem. hrs.
Using the latest computerized design systems, students create original designs, repeats, colorways, and coordinates targeting specific markets. Emphasis is on the creative use of advanced software, awareness of industry trends and the development of an original portfolio of digitally produced designs.
Prerequisite(s): CTD 102.

CTD 320. Visual Merchandising. 3 sem. hrs.
Introduces contemporary display techniques, equipment, and materials for designing three-dimensional product presentations within the retail environment. Using advanced computer software, students create and execute original visual programs and storewide promotions. Two lectures, one laboratory.
Prerequisite(s): CTD 102.

CTD 321. History of Interiors I. 3 sem. hrs.
Study of the furnishings, interior treatments, and lifespaces characteristic f selected styles up to 1790. Offered in the Fall semester
Prerequisite(s): CTD 226.

CTD 323. Interior Design Internship Sem. 1 sem. hr.
Exploration of internship possibilities and requirements, development of job-search skills and internship placement.
Prerequisite(s): CTD 226.

CTD 325. Design For Special Populations. 3 sem. hrs.
Design of interior environments for persons with special needs such as health care, rehabilitation, education, and congregate-care interiors. Cabinet and millwork design. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 226.

CTD 326. Design For Hospitality Interio. 3 sem. hrs.
Planning and design of interior spaces; project management; design and specification of interior architectural materials and furnishings. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 325.

CTD 328. Prof Proced Interior Des. 3 sem. hrs.
Philosophy and organization of professional practice; studio management, contracts, budgets, specifications, and professional organizations. Offered in the spring semester.

CTD 330. Autocad for Interior Design. 3 sem. hrs.
Principles, terminology, command sequencing and execution, and equipment use for computer-aided design applications within the field of interior design. Review of basic commands with emphasis on intermediate and advanced applications.
Prerequisite(s): CS 102.

CTD 335. Interior Design Media. 3 sem. hrs.
Emphasis is on developing rendering techniques and improving some portfolio pieces as time allows. Freehand perspective methods will be demonstrated, practiced, and applied.

CTD 340. Portfolio Development. 3 sem. hrs.
Dedicated to the study and completion of a student portfolio.

CTD 341. Italian Fashion. 3 sem. hrs.
Students travel to italy to research and experience the influence of culture on the fashion industry.
Prerequisite(s): CTD 281.

CTD 349. Compt-Aid Apparel Design. 3 sem. hrs.
Application of computer technology to fashion illustration, apparel design, marker making, pattern making, and pattern grading. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 350. Flat Pattern Design. 3 sem. hrs.
Principles and procedures governing development and use of master patterns. Application of flat pattern principles to the execution of original designs. Offered in the fall semester. Two laboratories.
Prerequisite(s): CTD 245.

CTD 351. Apparel Des Thru Drpng. 3 sem. hrs.
Techniques of draping on a dress form are applied in the execution of original designs. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 350.

CTD 353. Language of Design. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EN 101 and EN 102; or EN 103 and CTD 121.

CTD 355. Global Influences on Design. 3 sem. hrs.
Prerequisite(s): CTD 121.

CTD 371. Lighting For Interiors. 3 sem. hrs.
Integration of the theory, techniques, and art of lighting design; principles, terminology, and equipment used in light distribution systems in the interior environment. Two lectures, one laboratory.
Prerequisite(s): CTD 226 and DR 250 and DR 135.

CTD 381. Fashion Retailing Seminar. 3 sem. hrs.
Focus on professional development and profit analysis. Exploration of internship possibilities and requirements, development of job-search skills, and internship placement. Enrollment open to students applying for fashion retailing internships. Offered in the spring semester.

CTD 387. Fashion Marketing. 3 sem. hrs.
It is the purpose of the this course to provide retailing and fashion design students with a marketing course that focuses on the fashion industry. Course Description - Apply the four Ps of the marketing concept - Price, Product, Promotion and Place - to the fashion industry, including branding, promotion, internaional marketing, and consumer behavior as related to the fashion industry.
Prerequisite(s): CTD 281.

CTD 415. History Textile Design. 3 sem. hrs.
Study of the history of textiles emphasizing the influence of cultural factors. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 422. History Of Interiors II. 3 sem. hrs.
Study of research methods and design theories utilizing historical knowledge from CTD 321. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

CTD 423. Intern Interior Design. 3 sem. hrs.
Experience in interior design or related business under supervision of advisor and the business management. Offered during the summer session.

CTD 425. Advanced Residential Design. 4 sem. hrs.
Problems in design of the home environment; individual and group problem solving. Emphasis is on historic preservation principles and practices for interior designers. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 326.

CTD 426. Advanced Nonresidential Design. 4 sem. hrs.
Problems in design of business and professional interiors; construction drawings using computer-assisted design; individual and group problem solving. Requires senior thesis. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 425.

CTD 427. Advanced Computer Applications in Design. 3 sem. hrs.
This course will provide students with an overview of computer software applications and project documentation commonly used in design. The course will provide an overview and introduction to Revit and 3d studio max.
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 446. Cult Dynam Apparel Text. 3 sem. hrs.
Impact of cultural dynamics on apparel and textile production and marketing. Offered in the spring semester.

CTD 447. Text Apparl Intnat Trade. 3 sem. hrs.
Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 or EC 111; and CTD 281.

CTD 448. History Of Costume. 3 sem. hrs.
Costume development from prehistoric to modern times. Study of cultural forces in relation to the evolution of costume. Offered in the fall semester.

CTD 450. Advanced Apparel Design. 3 sem. hrs.
Synthesis and application of design theories; procedures and processes used in the apparel industry. Development of portfolio of original design work is required. Two laboratories. Offered in the fall semester.
Prerequisite(s): CTD 350 and CTD 351.

CTD 455. Advanced Computer Applications In Design. 3 sem. hrs.
The course will provide students with an overview of computer software applications and project documentation commonly used in design. The Course will provide an overview and introduction to Revit and 3d studio max. The Skills are presented in a format that emphasizes use of the computer as a creative tool. Students will develop a mastery of the programs in subsequent courses Extensive use of the computer is a condition for passing this course.3
Prerequisite(s): CS 102 and DR 135 and DR 250.

CTD 461. Qual Contr Textile Prod. 3 sem. hrs.
Use of standard laboratory test methods and computerized statistical data analysis to evaluate the quality of textile products. Block course. Offered in the fall semester.
Prerequisite(s): CTD 261.

CTD 481. Fashion Retailing II. 3 sem. hrs.
Merchandise planning and control; techniques of merchandising, including unit and dollar assortment planning, inventory control, and procurement. Block course. Offered in the fall semester.
Prerequisite(s): CTD 381.

CTD 485. Intern Fashion Retailing. 6 sem. hrs.
To participate, students must make application to the department by the first day of classes during the spring semester of the junior year. A grade point average of 2.50 or higher is required for the professional courses specified under "Fashion Retailing Concentration for AT Majors" in this catalog. The course involves supervised work experience in a business related to the major field of study.
Prerequisite(s): CTD 381.

CTD 498. Directed Indiv Studies. 1-6 sem. hr.
Independent Study.

CTD 499. Directed Indiv Studies. 1-6 sem. hr.

Communication Studies (COM) Courses

COM 100. Rhetoric And Society. 3 sem. hrs.
The impact of public discourse on the ideas and issues of culture and history. Offered in the fall semester. HU designation for university core curriculum.

COM 101. Principles Human Communication. 3 sem. hrs.
General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals. The focus is on identifying the foundation of human communication and the functions of communication in everyday situations. Offered in the spring semester. SB designation for university core curriculum.

COM 104. Forensics. 1 sem. hrs.
per semester (may earn up to 6 hours toward COM major). The individual events program focuses on the preparation and presentation of various kinds of speeches and on the oral interpretation of literature. The debate program focuses on the research and practice of oral argument.

COM 121. Crit Decisn Makng Honors. 3 sem. hrs.
Introductory course in thinking critically for the purpose of participating in the process of public decision making and understanding how discussion, argumentation, and persuasion function as communication forms for that process. HU designation for university core curriculum.

COM 122. Critical Decision Making. 3 sem. hrs.
Introductory course in thinking critically and speaking credibly for the purpose of participating in the process of public decision making and for responsible civic engagement. HU designation for university core curriculum.

COM 123. Public Speaking. 3 sem. hrs.
Theory and practice of basic principles of public speaking, with emphasis on the compositional and presentational aspects of communication in formal speaking situations. HU designation for university core curriculum.

COM 155. Freshman Seminar. 3 sem. hrs.

COM 210. Oral Interpretn Literatr. 3 sem. hrs.
Beginning course in the oral interpretation of literature. The course covers principles and techniques of analyzing and presenting poetry, prose, and dramatic literature orally. HU designation for university core curriculum.

COM 220. Interpersonal Communication. 3 sem. hrs.
Study of verbal and nonverbal communication in the evolution of human relationships. SB designation for university core curriculum.

COM 225. Small Group Communicatn. 3 sem. hrs.
Survey and application of basic group communication principles as related to task-oriented interpersonal, small-group, and large-group dynamics, within the context of complex organizations.

COM 250. Nonverbal Communication. 3 sem. hrs.
This course introduces the basic concepts related to the study of nonverbal communication and explores the application of nonverbal code information to specific communication contexts.

COM 295. Special Topics. 3 sem. hrs.
Reading and discussion in areas of significance. Topics vary.

COM 300. Human Communication Research. 3 sem. hrs.
Focus on how communication research can be used to answer practical questions related to human communication and the media. Emphasis is given to critical analysis and empirical research.
Prerequisite(s): COM 101.

COM 301. Intro Rhetorical Theory. 3 sem. hrs.
Survey of the historical development of rhetorical theory from the classical period to the present.
Prerequisite(s): COM 100 or COM 123.

COM 310. Rhetorical Criticism. 3 sem. hrs.
Survey of critical approaches to rhetorical analysis of discourse. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100.

COM 323. Advanced Public Speaking. 3 sem. hrs.
Prerequisite: COM 104, COM121, COM 122, or 123. Advanced exploration of principles and models of contemporary public address.
Prerequisite(s): COM 104 or COM 121 or COM 122 or COM 123.

COM 340. Rhetoric & Popular Culture. 3 sem. hrs.
An investigation of rhetorical constructions of social identities through cases of popular culture. Emphasis is on how mediated constructions come to reflect and reify dimensions of race/ethnicity, gender, class, sexualities, education, religion, abilities, and other subject positions.

COM 341. Rhetoric & Amer Politics. 3 sem. hrs.
Introduction to the structures and functions of written, spoken, and electronically mass-mediated political discourse in contemporary society. Writing proficiency within this discipline is required for a passing grade in this course.

COM 342. Rhetoric Social Protest. 3 sem. hrs.
Study of social protest discourse and how it functions rhetorically. Writing proficiency within this discipline is required for a passing grade in this course.

COM 348. Argumentation. 3 sem. hrs.
Theory and practice of argumentation, applying basic principles to both oral and written discourse.

COM 349. Practicum In Forensics. 3 sem. hrs.
Practical experience in establishing and administering forensic programs, preparing students for competitive forensics events, rendering critical judgments, and conducting forensics tournaments.

COM 350. Organizatnl Communicatn. 3 sem. hrs.
Theoretical approach to the study of human communication in the organization context. Emphasis is on predominant organizational communication theories and communication networks, as well as dyadic, small group, and public communication processes.

COM 352. Business Prof Communication. 3 sem. hrs.
Junior or Senior Standing. Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including resume preparation and presentation, interviewing, and interaction management in business and professional settings.

COM 366. Visual Culture & Communication. 3 sem. hrs.
Provides an introduction to the critical understanding of visual images and their uses in a variety of rhetorical actions that humans perform in persuasion, informing, governing, remembering and authorizing public life and culture.

COM 395. Special Topics. 3 sem. hrs.
Reading, research, and discussion in areas of significance. Topics vary.

COM 413. Communication & Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.
Prerequisite(s): COM 100 or COM 101.

COM 415. African American Rhetoric. 3 sem. hrs.
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100.

COM 425. Gender & Political Communctn. 3 sem. hrs.
Study of the impact of gender on political communication activities. Topics include gender differences in political messages and voter orientation, masculine ideals of leadership, women's roles and advancement in the political sphere, and media representations.
Prerequisite(s): COM 100 or COM 101.

COM 436. Independent Study. 1-3 sem. hr.
Those permitted to do independent study will be required to participate in an undergraduate research colloquium as necessary to completing the work for academic credit.

COM 450. Adv Organization Communication. 3 sem. hrs.
Advanced course focusing on current trends and issues in organizational communication. Course content will center on a variety of topics designated important to the conceptualization and successful operation of organizations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 350COM 350.

COM 451. Instructional Communication. 3 sem. hrs.
Principles and strategies for teaching communication studies at the high-school and community-college level.
Prerequisite(s): COM 100 or COM 101.

COM 460. Group Leadership. 3 sem. hrs.

COM 462. Theories Of Persuasion. 3 sem. hrs.
Critical review of social influence theories and practice in the area of persuasion and human action. Special emphasis is given to the application of the theories in interpersonal and organizational communication contexts.

COM 463. Relational Communication. 3 sem. hrs.
Focused investigation of communication in close personal relationships, with primary emphasis on contemporary concepts and theories of romantic relationships and friendships. Writing proficiency is a requirement for passing the course. W designation for university core curriculum.
Prerequisite(s): COM 220.

COM 465. Intercultural Communication. 3 sem. hrs.
Survey and analysis of major concepts, theories, and research dealing with communication between people of different cultural backgrounds in multicultural and international settings.
Prerequisite(s): COM 100 or COM 101.

COM 467. Seminar Public Address. 3 sem. hrs.
A topical consideration of individual case studies from public discourse, designed to probe problems of the nature of the audience, the ethics of persuasion, and the power of public advocacy in mass society.

COM 469. Communication & Gender. 3 sem. hrs.
Explores the role of communication in the construction of gender. Covers theories of gender construction, as well as the roles of gender and communication in various relational contexts. (This is an approved course for the minor in women's studies.).

COM 490. Field Experience in Communication Studies. 3 sem. hrs.
Supervised field experience in communication studies. Must meet departmental requirements for eligibility to be approved for this course.
Prerequisite(s): COM 100 or COM 101.

COM 495. Special Topics. 3,6 sem. hrs.
Reading, research, and discussion in areas of significance. Topics vary.
Prerequisite(s): COM 100 or COM 101.

COM 499. Capstone Seminar. 3 sem. hrs.
Gives advanced students an opportunity to integrate and synthesize what they have learned in the communication studies major. Topics will vary.
Prerequisite(s): COM 100 or COM 101; and COM 300 or COM 310.

Communicative Disorders (CD) Courses

CD 225. Intro Comm Disorders. 3 sem. hrs.
Study of the types of speech, language, and hearing disorders; an introduction to the principles of rehabilitation of communicative disorders; and consideration of employment settings.

CD 226. Lang & Speech Develop. 3 sem. hrs.
Theory and practice of normal speech and language processes and sequences.

CD 244. Phonetics. 3 sem. hrs.
Study of the principles of phonetics and their application to speech. The International Phonetic Alphabet is used for study and transcription.

CD 275. Anat Physio Sech Hear Mechansm. 3 sem. hrs.
Detailed study of the bases of speech and hearing, including anatomy, physiology, and neurology.

CD 277. Preprofess Lab Experienc. 1 sem. hr.
Structured observational activities for students prior to their enrollment in a practicum course in speech-language pathology. Open to CD majors only.

CD 308. Speech Disorders I. 3 sem. hrs.
An introduction to articulation, phonology, & language disorders in children & adults as well as literacy & aural rehabilitation.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 309. Speech Disorders II. 3 sem. hrs.
An introduction to aphasia, traumatic brain injury, dementia, dysarthria, and apraxia.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 350. Independent Study. 1-3 sem. hr.
Directed readings in an area of communicative disorders. Open to CD majors only.
Prerequisite(s): Minimum of 18 hours in CD courses and permission of the instructor.

CD 351. Hearing Science. 3 sem. hrs.
This course will provide the student with an understanding of the physical aspects of sound and how it is processed physiologically through the human auditory system. In addition, the student will become familiar with the anatomy of the hearing mechanism.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 377. Clin Practicum I Speech. 3 sem. hrs.
Supervised clinical practice in speech therapy with children. Open to CD majors only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 277 CD 308 By application only.

CD 378. Clinic Pract II Speech. 1-3 sem. hr.
Supervised clinical practice in speech therapy with children.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 277 CD 308 CD 377 By application only.

CD 411. Speech Science. 3 sem. hrs.
A study of speech physiology, basic electronics, basic acoustics, speech acoustics, auditory perception, and neuroanatomy. Class work and laboratory sessions cover speech spectrographic analysis, basic sound measurement, and selected other instrumentation used in the speech and hearing science laboratory.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 416. Multicultural Issues. 3 sem. hrs.
A framework for systematically analyzing cultural similarities and differences will be provided and will serve as a model to examine cultural differences in the clinical setting. Offered fall semester.
Prerequisite(s): CD 225 and CD 226 and CD 244.

CD 442. Public School Internship. 3-6 sem. hrs.

CD 443. Basic Audiology. 3 sem. hrs.
Introduction to hearing evaluation, conservation, and impairment. Also considers the auditory system: anatomy, physiology, and pathology. Includes three laboratory sessions.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275.

CD 444. Aural Rehabilitation. 3 sem. hrs.
The rehabilitation of hearing-impaired people primarily through auditory and visual training is addressed. Other sensory training, language development, speech production, and guidance are also considered. Open to CD majors only.
Prerequisite(s): Minimum overall GPA of 2.5 CD 225 CD 226 CD 244 CD 275.

CD 445. Audiology Lab Experience. 1-3 sem. hr.
Supervised laboratory or clinical experience in hearing evaluation and rehabilitation.
Prerequisite(s): Completion of the 200-and 300-level undergraduate CD classes as well as CD 443. By application only.

CD 448. Advanced Audiology. 3 sem. hrs.
An in-depth study of audiology and hearing science as they relate to speech communication and communication disorders.

CD 454. Fluency Disorders. 3 sem. hrs.
The study of the nature, assessment, and treatment of stuttering. Emphasis on understanding the different onset and developmental theories and different approaches to treatment.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308.

CD 455. Voice Disorders. 3 sem. hrs.
This course is designed to provide basic knowledge and skills needed for the evaluation and treatment of voiced language disorders.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308.

Community Health Sciences (CHS) Courses

CHS 101. Emergency Medical Services I. 3 sem. hrs.

CHS 155. Freshman Seminar. 3.00 sem. hrs.
Freshman Seminars provide an opportunity for faculty members in the College of Community Health Sciences to engage with a small group of students (limited to no more than 20 students) in the context of a subject related to medicine or health related topics that is personally and professionally meaningful. The structure of the freshman seminar allows for flexibility in instructional methods.

CHS 200. Health & Wellness Advocacy. 3 sem. hrs.
Education and training in core peer education skills preparing for certification as Peer Educator (CPE). Health and wellness education targeted to college age in : alcohol/substance use, tobacco, stress, nutrition/fitness, eating disorders, financial management, sexual health/ healthy relationships.

CHS 210. Principles of Weight Mgt. 3 sem. hrs.
This course will explore multiple aspects of weight management through a holistic health approach. Components of nutrition, stress management, physical activity principles and techniques within an ecological framework will be emphasized.

CHS 330. Intro Clinical Medicine. 3 sem. hrs.
Course is designed in lecture format to acquaint students engaged in premedical studies with the major patterns of illness in the U.S. and with the medical disciplines that treat those diseases. Enrollment limited to junior and senior premed students.

CHS 400. Rural Envir/Occup Health. 3 sem. hrs.
Designed to help the student recognize environmental and occupational health hazards in the rural setting, the effects of exposure to these hazards, and preventive measures that should be taken to avoid them.

CHS 420. Basic Epidemiology. 3 sem. hrs.
A basic course in epidemiology designed for students in health or related fields which points out the population-oriented approach to epidemiology and shows how the methodology can be used to develop knowledge of disease etiology with application to the entire spectrum of health service.

CHS 422. Community Clinical Proc. 3 sem. hrs.
A combination of scheduled sessions and fieldwork. Field work includes visiting with assigned rural advisor, completing a rural community assessment, and assisting with community health screenings and education programs.

CHS 423. Indep Stdy Community Med. 1-6 sem. hr.
An individual learning experience that involves the student in documentation of, evaluation of, and/or strategic planning for solving a community health problem.

CHS 425. Biostatistics. 3 sem. hrs.
Statistical methods and concepts particularly appropriate for biomedical research and health-related subjects.

CHS 427. Health Policy & Planning. 3 sem. hrs.
A problem-based learning seminar that introduces the student to the field of health policy and planning.

CHS 432. Comm Clinical Process II. 3 sem. hrs.
Continuation of studies from CHS 422, including introduction to basic physical assessment techniques and continuation of a community project.

CHS 442. Practical Issues Behav Medicin. 3 sem. hrs.
Lectures and readings will examine behaviors that compromise overall health status (eg, tobacco use, noncompliance) and behavioral aspects of specific medical conditions (eg, heart disease, cancer, pain). Topics will include bioethics, racial/ethnic disparities and rural mental health issues. Writing proficiency within this discipline is required for a passing grade in this course.

CHS 490. CIncal Correlations in Biochem. 3 sem. hrs.
The purpose of this course is to study biochemical principles in a clinical context and to observe the process of medical information assembly and reasoning in clinical care.

Computer Science (CS) Courses

CS 102. Microcomputer Applications. 3 sem. hrs.
Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management. (Credit for this course will not be applied to the requirements for a computer science degree).

CS 104. The Science of Programming. 3 sem. hrs.
This course is designed for students who wish to have some programming experience before entering CS150. Topics include: literals, variables, expressions, functions, curried functions, objects, writing and saving programs, organizing programs and data.
Prerequisite(s): Permission of Instructor
Prerequisite(s) with concurrency: MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

CS 120. Business Programming I. 3 sem. hrs.
An introduction to programming. The topics include procedural information enabled problem formulation, design and development of business computer solutions. This course concentrates on the construction and testing of individual programs.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125.

CS 121. The Discipline of Computing. 1 sem. hr.
An introduction to the discipline of computing designed for students who are considering a major or minor in computer science.
Prerequisite(s): MATH 112 minimum Grade of C- OR higher OR UA Placement Mathematics 380
Prerequisite(s) with concurrency: MATH 112.

CS 150. Programming I. 2 sem. hrs.
An introductory course that teaches programming and program development. The emphasis of the course is the rapid acquisition of programming, testing, debugging and system skills. The course utilizes Python, a modern object-oriented language whose clean and consistent syntax and semantics provide a simpler entry for beginning programmers.
Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 146.

CS 160. Computer Science Concepts. 1 sem. hr.
Introductory programming laboratory that focuses on basic problem solving concepts.
Prerequisite(s): Credit for MATH 112 or placement into MATH 115 or above.

CS 202. Intro to the Internet. 3 sem. hrs.
Introduces the student to the fundamentals of the internet and web page design and development. Students will be shown how to use the internet, text editors, and build basic web pages using HMTL coding. This will include, but not be limited to hyperlinks, tables, basic CSS styling, frames and forms. The student will also be given demonstrations and assignments using a WYSIWYG editor.
Prerequisite(s): CS 102 or CS 150 or ENGR 103 or CBH 101.

CS 205. Web Site Design. 3 sem. hrs.
A course designed to teach website design principles and implementation techniques. This class is not cross-listed as a graduate course. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 202.

CS 220. Business Programming II. 3 sem. hrs.
This course builds on the concepts and expertise gained in data driven problem solving and computer programming. It explores problem formulation, solution designing and object-oriented construction of business applications. This course concentrates on problem decomposition, design, construction and testing of individual programs. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 120 or CBH 101.

CS 250. Programming II. 2 sem. hrs.
A second course in programming that builds upon the concepts covered in CS 150. The emphasis is to improve and solidify program development skills as well as to introduce students to multimedia programming. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 150.

CS 260. Foundations of Comp Science. 3 sem. hrs.
An introduction to the science of Computer Science. Topics include: introduction to complexity, O(n) searching, sorting, design strategies, problem solving, arrays, singly-linked lists, stacks, and creative and searching binary search trees.
Prerequisite(s): CS 150 and (CS 160 or ECE 285).

CS 285. Microcomputer Appl II. 3 sem. hrs.
Use of spreadsheets and other environments to build business and scientific applications. Course includes development of problem-solving skills and an introduction to the object-oriented paradigm. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or CBH 101 or ENGR 103.

CS 302. Computerized Database Systems. 3 sem. hrs.
An introduction to commercial database packages. Students will gain familiarity with both creating and using standard database software packages to solve real-world problems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or CBH 101 or ENGR 103.

CS 315. Software Engineering. 3 sem. hrs.
Introduction to software engineering: the software crisis, program life cycle, software systems analysis techniques, software modeling, theory and practice of design, program testing methodologies, programmer team organization, and program verification and synthesis.
Prerequisite(s): CS 260 and CS 250 or ECE 285.

CS 325. Software Develmnt Systms. 3 sem. hrs.
Object-oriented programming in C++ under the Unix OS.
Prerequisite(s): CS 260 or CBH 102.

CS 340. Legal & Ethical Issues in Comp. 3 sem. hrs.
By way of case study, the course finds and frames issues related to legal and ethical issues in computing. Topics include privacy, free speech, intellectual property, security, and software reliability and liability issues. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CS 150 or ENGR 103 or CBH 101.

CS 345. Adv. Legal & Ethical Issues. 3 sem. hrs.
Using case study and fact pattern analysis, students will find and frame legal and ethical issues presented by past, contemporary and emerging technology. Students will engage in service learning to enhance their sense of civic responsibility.
Prerequisite(s): CS 340.

CS 350. Programming III: Java. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the Java programming language. The emphasis is on building larger projects using production languages and development environments. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 250 or ECE 285.

CS 351. Programming III: C++. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the C++ programming language. The emphasis is on building larger projects using production languages and development environments. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 250 or ECE 285.

CS 352. Programming III: C. 2 sem. hrs.
The third course in programming that builds upon the concepts covered in CS 250 and transitions to the C programming language. The emphasis is on building larger projects using production languages and development environments.
Prerequisite(s): CS 250 or ECE 285.

CS 357. Data Structures. 3 sem. hrs.
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching and dynamic storage allocation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 325
Prerequisite(s) with concurrency: CS 325.

CS 360. Data Structures & Algorithms. 4 sem. hrs.
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching and dynamic storage allocation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 301; and CS 250 or ECE 285; and CS 260;
Prerequisite(s) with concurrency: MATH 302 and CS 350 and CS 351 and CS 352.

CS 375. Programg Using Visual Environm. 3 sem. hrs.
Design and construction of programs using the Visual Basic programming environment. This course is designed for students majoring in MIS.
Prerequisite(s): MATH 112 or MATH 115; and CS 250 or CBH 102.

CS 385. Prototyping In Visual Environm. 3 sem. hrs.
Design and construction of standard user interfaces using a visual programming environment. Course includes the prototyping of several standard user interface mechanisms. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 285.

CS 391. Special Topics. 3 sem. hrs.
Special topics in computing.

CS 395. Competitive Programming I. 1 sem. hr.
A study of techniques and practices that promote success in competitive programming contests.

CS 396. Competitive Programming II. 1 sem. hr.
Advanced study of techniques and practices that promote success in competitive programming contests. Must have 3 hours of credit in CS 395.
Prerequisite(s): CS 395.

CS 403. Programming Languages. 3 sem. hrs.
Formal study of programming language specification, analysis, implementation, and run-time support structures; organization of programming languages with emphasis on language constructs and mechanisms; and study of non-procedural programming paradigms.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 407. Software Interface Desgn. 3 sem. hrs.
Basic concepts of the human-computer interface, including human diversity, user mental models, menus, command languages, documentation, error messages, anthropomorphisms, and software psychology.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 and CS 357 or CS 360; and ECE 383.

CS 415. Software Design & Development. 3 sem. hrs.
Object-oriented design and development using UML and Java, design patterns, and architectural patterns.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 357 or CS 360; and ECE 383.

CS 416. Testing and Quality Assurance. 3 sem. hrs.
Study of verification & validation and related processes. Topics include techniques and tools for software analysis, testing, and quality assurance.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383.

CS 417. Requirements Engineering. 3 sem. hrs.
Study of requirements engineering and it's phases. Topics include formal, semi-formal, and informal paradigms for elicitation, documentation, and management of software system requirements.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383.

CS 420. Software Mainten. & Evolution. 3 sem. hrs.
Study of software and its phases. Topics include techniques and tools for concept location, impact analysis, actualization, refactoring, and validation.
Prerequisite(s): CS 315 and CS 350 or CS 351; and CS 360 and ECE 383.

CS 426. Intro Operating Systems. 3 sem. hrs.
Study of basic operating system concepts with an emphasis on memory, processor, device, and information management.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352; and CS 360 and ECE 383; or CS 325 and CS 357 and ECE 383.

CS 428. Computer Security. 2 sem. hrs.
An examination of computer security concepts, such as cryptographic tools, user authentication, access control, database security, intrusion detection, malicious software, denial of service, firewalls and intrusion prevention systems, trusted computing and multilevel security, buffer overflow, software security, physical and infrastructure security, human factors, and security auditing.
Prerequisite(s): CS 426.

CS 434. Compiler Construction. 3 sem. hrs.
Syntax and semantics of procedure-oriented languages and translation techniques used in their compilation; includes computer implementation.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 435. Computer Graphics. 3 sem. hrs.
Fundamentals of interactive 3-D computer graphics, including modeling and transformations, viewing, lighting and shading, mapping methods, graphics pipeline, shading languages, and interaction techniques. Programming projects are required.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 438. Comptr Commcn Networks. 3 sem. hrs.
The study of the issues related to computer communications. Topics include physical topologies, switching, error detection and correction, routing, congestion control, and connection management for global networks (such as the Internet) and local area networks (such as Ethernet). In addition, network programming and applications will be considered.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 440. Ethical Societal Issues. 3 sem. hrs.
The course looks at social, legal, and ethical aspects of computing, and presents the student with an overall framework of computing-related disciplines and culture. Includes computer crime issues (hackers, viruses, worms); other legal issues (software patents, copyrights, product liability, etc.); and computing risks and privacy implications.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 457. Data Base Managm Systems. 3 sem. hrs.
Constituent parts of database management (design, creation, and manipulation of databases), including the conceptual and relational data models, SQL, normalization and security. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 460. Intro to Autonomous Robotics. 3 sem. hrs.
Issues involved with the implementation of robot control software including motion, kinematics, simulation testing, sensor incorporation and unmodeled factors.
Prerequisite(s): CS 426.

CS 465. Artificial Intelligence. 3 sem. hrs.
The advanced study of topics under the umbrella of artificial intelligence including problem solving, knowledge representation, planning and machine learning.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 466. Information Systems. 3 sem. hrs.
Information Systems
Prerequisite(s): CS 102 and six (6) hours of other CS courses.

CS 470. Intro Computer Algorithms. 3 sem. hrs.
Construction of efficient algorithms for computer implementation.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 475. Formal Languag & Machine. 3 sem. hrs.
Regular expressions and finite automata. Context free grammars and pushdown automata. Recursively enumerable languages and turing machine. The Chomsky hierarchy.
Prerequisite(s): CS 315; and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CS 491. Special Topics. 3 sem. hrs.
Formal courses that cover new and innovative topics in computer science and do not yet have their own course numbers. Specific course titles will be announced from time to time.
Prerequisite(s): CS 315; and CS 325 or CS 350 or CS 351 or CS 352; and CS 357 or CS 360; and ECE 383.

CS 492. Special Prob (Area). 1-3 sem. hr.
Reading and research course designed to meet the needs of individual students. This course cannot be used as a required 400-level computer science elective.

CS 495. Capstone Computing. 3 sem. hrs.
A culminating capstone project course that integrates the skills and abilities throughout the curriculum into a comprehensive design and development experience for computer science majors. Writing proficiency within this discipline is required for a passing grade in this course, and ethical issues are applied to the students' future professions.
Prerequisite(s): (CS 325 and CS 357); or (CS 350 or CS 351 or CS 352; and CS 315 and CS 360).

CS 497. Competitive Programming Techniques. 1 sem. hr.
Provides a unique opportunity to explore new problem solving techniques in a way that is not covered traditionally in the curriculum, helping students improve their software development skills.
Prerequisite(s): CS 360.

CS 499. Undergraduate Thesis Research. 3 sem. hrs.
Independent research and participation within a faculty member's research group. Writing proficiency within this discipline is required for a passing grade in this course. Permission of the supervising faculty member is required.
Prerequisite(s): CS 315; and CS 350 or CS 351; and CS 360 and ECE 383.

Computer-Based Honors Program (CBH) Courses

CBH 101. Computer Based Honors. 4 sem. hrs.
Taken by first-year students in the Computer-Based Honors Program, this course provides an accelerated introduction to computer hardware and software. Open only to students admitted to the Computer-Based Honors Program,.

CBH 102. Computer Based Honors. 4 sem. hrs.
Taken by first-year students in the Computer-Based Honors Program, this course provides an accelerated introduction to computer hardware and software. Open only to students admitted to the Computer-Based Honors Program,.

CBH 201. Computer Based Honors. 3 sem. hrs.
In the sophomore, junior, and senior CBH seminars, students work as undergraduate research assistants with faculty members on computer-oriented research projects. Computing proficiency is required for a passing grade in this course.

CBH 202. Computer Based Honors. 3 sem. hrs.
In the sophomore, junior, and senior CBH seminars, students work as undergraduate research assistants with faculty members on computer-oriented research projects.

CBH 301. Computer Based Honors. 3 sem. hrs.
Junior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

CBH 302. Computer Based Honors. 3 sem. hrs.
Junior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

CBH 425. Comp Based Honors Proj. 1-6 sem. hr.

CBH 451. Computer Based Honors. 3 sem. hrs.
Senior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

CBH 452. Computer Based Honors. 3 sem. hrs.
Senior CBH seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Counts towards Honors College 18 hour requirement.
Prerequisite(s): CBH 101 and CBH 102.

Computers and Applied Technology (CAT) Courses

CAT 100. Computer Concepts & Applicatn. 3 sem. hrs.
Fundamentals of computer use in education, including software applications, keyboard functions, peripherals, utilities, and software.

CAT 200. Computer Education Application. 3 sem. hrs.
Introduces computer applications relating to problem solving, critical thinking, instruction, data management, and Web page development.
Prerequisite(s): CAT 100 and CS 102.

CAT 250. Computer Educ Curric Devel. 3 sem. hrs.
Utilizing computer technology and computer applications in instruction.
Prerequisite(s): CAT 200.

Consumer Sciences (CSM) Courses

CSM 101. Consumers And Technology. 3 sem. hrs.
The course features the use of basic applications of the computer, including word processing, database, electronic presentation, Internet searching, and fundamental computer maintenance. Students may not receive credit for both CSM 101 and CS 102.

CSM 116. The Mathematics of Compounding in Goal-Setting. 3 sem. hrs.
This course includes topics such as finite mathematics, the real number system, probability, and the algebra of functions with an emphasis on mathematical induction. This course includes money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning as the basis for mathematical problem solving exercises.
Prerequisite(s): MATH 100.

CSM 201. Indiv Family Resourc Mgt. 3 sem. hrs.
Management of human, material, and environmental resources to accomplish value-based goals. Highlights importance of decision making to achieve satisfaction and improve quality of life across the family life cycle.

CSM 204. Intro Personl Finan Plan. 3 sem. hrs.
The course presents financial planning within the context of the family life cycle and the consumer decision-making framework. It provides an overview of topics such as family financial goal setting, budgeting, risk management, savings, and investments.

CSM 206. Prac Fin Plan for Rest of Us. 3 sem. hrs.
Provides basic tools and technology necessary for development of a successful personal financial plan over one's life span. Topics include money management, credit use, investments, insurance, retirement planning, wealth accumulation and estate planning.

CSM 300. Time Value of Money & Financial Calculations. 1 sem. hr.
The focus of this course is to develop a better understanding of the Time Value of Money concept and the types of financial calculations that will be required in courses such as Introduction to Investment Planning, Asset Management, Retirement Planning and the Capstone Course in Financial Planning.
Prerequisite(s) with concurrency: CSM 204.

CSM 301. Charact of a Good Leader. 3 sem. hrs.
Examine ways in which to become an effective leader. Evaluate leadership skills of others as they relate to knowledge obtained through chosen literature. Enhance the qualities of good leadership within oneself.

CSM 381. Consumer Marketing Management. 3 sem. hrs.
Principles of consumer-oriented marketing management with emphasis on consumer decision-making theory and practice.

CSM 390. Field Experience. 1-6 sem. hr.
Supervised experiences in the areas of consumer affairs or family financial planning with government, business, or industry.

CSM 400. Personal Insurance Plan & Mgt. 3 sem. hrs.
Survey of myriad of personal risks facing consumers and families throughout the life cycle. Emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.
Prerequisite(s): CSM 201 and CSM 204.

CSM 401. Consumer Protection. 3 sem. hrs.
Laws and agencies affecting the consumer's well-being, sources of consumer information, discussion of current consumer issues. Writing proficiency is required for a passing grade in this course.

CSM 403. Consumer Economics. 3 sem. hrs.
The role of the consumer in the economy. Economic analysis of market and nonmarket consumption activities, incorporating relevant social, psychological, political, and ecological considerations. Offered in the spring semester.

CSM 404. Personal Investment Plan & Mgt. 3 sem. hrs.
Concepts and techniques related to family financial investments.
Prerequisite(s): CSM 201 and CSM 204.

CSM 405. Public Policy. 3 sem. hrs.
A detailed analysis of U.S. public policy, recognizing the broader social and economic impacts of selected policies. Students will develop a better understanding of how and why specific policies are implemented and assess the strengths and weaknesses of different policy structures.

CSM 406. Consumer Mgt Quality Assurance. 3 sem. hrs.
Provides in-depth coverage of the primary theories and methods necessary for quality assurance in a wide range of organizational settings.

CSM 407. Consumr Qual Mgt Facilitn Skil. 3 sem. hrs.
Provides a comprehensive study of facilitation skills necessary to lead an organization in continuous improvement.

CSM 408. Consumer Quality Mgt Systems. 3 sem. hrs.
Provides an in-depth analysis of management systems as a method for organizing and leading business, educational, and health care institutions. The course will cover the primary issues related to management systems.

CSM 409. NY Wall Street Stdy Tour. 3 sem. hrs.
Provides an overview of the American financial system with emphasis on financial service providers, products and markets. Includes a 6-day tour of New York's financial district, presentations by financial professionals, team activities, assignments and stock market analysis.

CSM 410. Pers Retire Plan Employ Benefs. 3 sem. hrs.
Fundamentals for personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 201 and CSM 204.

CSM 413. Emotional Intelligence for Resolving Conflict and Career Success. 3 sem. hrs.
This course emphasizes insight and skill development that provides a foundation for students' success in business, career and life. The course is strength-oriented and encourages self-evaluation, self-determination and lifelong learning.

CSM 414. Personal Investment Planning & Management II. 3 sem. hrs.
This course expands upon the content of CSM 404/504, adding a number of new concepts that are relevant to understanding the management of investments for family and individual goal attainment. Lectures, readings, case studies, and problem sets are designed to help students in preparing for the Investment Planning section of the Certified Financial PlannerTM examination
Prerequisite(s): CSM 404.

CSM 415. Customer Service Management. 3 sem. hrs.
An in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Analysis of consumer needs, complaints, and education.

CSM 420. Personal Estate Planning. 3 sem. hrs.
Techniques of personal estate planning within the family life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 424. Addict. & Dysf. in Money Mgmt. 3 sem. hrs.
CSM 424/524 is an exploration of addictions and dysfunctions related to managing money and finances and a brief guide for changing dysfunctional behavior related to money. The course does not provide training in diagnosing, but rather emphasizes describing behavior.

CSM 425. Cons Conflict Med, Mgt & Neg. 3 sem. hrs.
A study of the various techniques of conflict resolution in consumer affairs.

CSM 427. Cons Conflct Med, Mgt & Neg I. 3 sem. hrs.
An in-depth study of skills to mediate, negotiate and manage conflict in the home and workplace. Written analysis is integral.

CSM 428. Cons Conflct Med, Mgt & Neg II. 3 sem. hrs.
Advanced exploration of the dynamics and impact of communication and difference on conflict mediation, negotiation and management. Students will expand understanding of human difference on the ability to work through conflict situations. Students will develop self-evaluation skills related to conflict experiences.

CSM 430. Family & Consumer Law. 3 sem. hrs.
The study of family and consumer law in specific issues of marriage, parent-child relationships, divorce, and the economic consequences of divorce, as well as consumerism and a general understanding of legal terms, resources, the legal system, and adversarial proceedings.

CSM 435. Psychology Of Money. 3 sem. hrs.
An innovative study of financial behaviors and their relationship to money management with emphasis placed on both theory and its application.
Prerequisite(s): CS 315 and CS 350 or CS 351 or CS 352 or CS 325; and CS 360 or CS 357; and ECE 383.

CSM 437. Developing The Leader Within. 3 sem. hrs.
An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.

CSM 440. Maximizing Use of Social Media Marketing. 3 sem. hrs.
In this course students will develop skills for strategic social media marketing and engagement. They will explore and utilize techniques for integrating social media marketing campaigns that serve as listening and outreach tools in building brand awareness. This course will provide a framework for online brand management and promotion for careers and majors in the college of Human Environmental Sciences.

CSM 441. Consumer Communications. 3 sem. hrs.
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Writing proficiency and use of the computer are required for a passing grade in this course.
Prerequisite(s): CS 102 or CSM 101.

CSM 445. Microcomp Appl Con Serv. 3 sem. hrs.
Encompasses the collection of technical skills and scientific methodologies which can be used to create computer-based solutions to real problems encountered in consumer services.
Prerequisite(s): CS 102 or CSM 101.

CSM 447. Digital Tools. 3 sem. hrs.
Provides students with skills to live and work in a digital environment by developing technological skills in use and application of computers, Internet, and other digital tools.
Prerequisite(s): CS 102 or CSM 101.

CSM 454. Personal Income Tax Mgt Planng. 3 sem. hrs.
An analysis of personal income tax management and planning as it relates to consumers and families throughout the life cycle.
Prerequisite(s): CSM 201 and CSM 204.

CSM 458. Spreadsheets in Fin. Decisions. 3 sem. hrs.
The focus of this course is to develop a working knowledge of Microsoft Excel as it may be used to analyze problems related to personal financial planning. The course emphasizes life-cycle planning and computer literacy. The course is designed to help students in becoming better prepared for the actual workplace environment.
Prerequisite(s): CSM 204 or RHM 474 or AC 210.

CSM 459. Tech of Counsl in Cons Science. 3 sem. hrs.
Fundamentals of counseling, communication, and ethics.

CSM 460. Personl Finan Plan Couns Tec. 3 sem. hrs.
A systems approach to financial management for individuals and families from the perspective of planner/counselor. Focuses on analytical techniques. Emphasizes identification and development of strategies for meeting client goals.
Prerequisite(s): CSM 201 and CSM 204 and CSM 400 and CSM 404 and CSM 458.

CSM 462. Financial Planning Practice Management. 3 sem. hrs.
An in-depth look at the professional side of careers in Consumer Sciences. Experiental activities, guest speakers, faculty lecturers and student projects provide students with opportunities to learn and practice traits, skills and abilities needed for a successful career.

CSM 475. Entrepreneurship In Hes. 3 sem. hrs.
A study of home-based businesses taught from the perspective of theory and application in family resource management.

CSM 480. E-Commerce@Human Envir Science. 3 sem. hrs.
Offers sound advice and vital practical help on developing an idea into a business on the Internet, addressing areas of specialization in human environmental sciences.

CSM 486. Consumer Conflict Mediation, Management & Negotiation III. 3 sem. hrs.
Survey of the theory and practice of the Employee Assistance Program (EAP). Six content areas will assist students in identifying their strengths and weaknesses in relation to the content areas.

CSM 490. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

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CSM 493. Individual Study. 1-6 sem. hr.
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM 499. Undergraduate Rsch. 3 sem. hrs.
Under faculty supervision, student will participate in a research project.

Counselor Education (BCE) Courses

BCE 101. Freshman Compass: UA. 2 sem. hrs.
This course for first-year UA students provides an introduction to the nature of higher education and to the function, resources, and activities of The University of Alabama. This course is designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for degree attainment.

BCE 301. Introduction To Counseling. 3 sem. hrs.
A survey course featuring a comprehensive examination of the history, functions, and related issues for the practice of counseling in school, agency, and rehabilitation settings.

BCE 411. Guidance For Teachers. 3 sem. hrs.
The sociological, psychological, and philosophical bases for guidance in schools are presented. The course is offered only through the Office of Independent Study in the College of Continuing Studies, and is appropriate for both elementary and secondary teachers. Students majoring in guidance may not receive credit for this course.

Criminal Justice (CJ) Courses

CJ 100. Intro Criminal Justice. 3 sem. hrs.
An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components. CJ 100 is a prerequisite for all 300- and 400-level criminal justice courses.

CJ 220. Law Enforcement. 3 sem. hrs.
Development of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies; and functions of police officers.

CJ 221. Private Security. 3 sem. hrs.
Organization and management of the security function in industry, business, and government. Exploration of methods to protect personnel, facilities, and other major assets: loss prevention, control, and risk management.

CJ 240. Juvenile Delinquency. 3 sem. hrs.
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.

CJ 250. Judicial Process. 3 sem. hrs.
A general overview of U.S. judicial systems, including recent innovations and future trends.

CJ 270. Corrections. 3 sem. hrs.
A general overview of U.S. corrections, jails and prisons, institutional procedures, recent innovations, and the future of corrections.

CJ 300. Survey Criminal Theories. 3 sem. hrs.
Study of traditional and modern explanations of crime and criminality.
Prerequisite(s): CJ 100.

CJ 303. Minorities Crim Soc Just. 3 sem. hrs.
Study of the role played by racial minorities at each stage of the criminal justice system. Special attention is devoted to theories and measurement of minority crimes and race relations and to the treatment of minorities by law enforcement officers, courts, and corrections.
Prerequisite(s): CJ 100.

CJ 306. Hist Crime And Treatment. 3 sem. hrs.
Examination in historical sequence of the perspectives on and methods of crime control, from the traditional to the modern. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100.

CJ 321. Criminal Investigation. 3 sem. hrs.
Fundamentals of criminal investigation from crime scene searches to follow-up investigations and case preparation.
Prerequisite(s): CJ 100.

CJ 330. Org & Mgt Concepts CJ. 3 sem. hrs.
Formal organization theory and personnel administration, with emphasis on law enforcement agencies.
Prerequisite(s): CJ 100.

CJ 380. Research Methods. 3 sem. hrs.
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problem of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): CJ 100.

CJ 381. Statistics. 3 sem. hrs.
Statistical methods in criminal justice, including central tendency and dispersion, tests of significance, and measures of association.
Prerequisite(s): CJ 100 and MATH 110 or MATH 112 or MATH 115.

CJ 395. Internship. 1-12 sem. hr.
An opportunity for students to conduct career exploration and build a record of experience in the field.
Prerequisite(s): CJ 100.

CJ 404. Health and Crime. 3 sem. hrs.
The health consequences of social deviance and the impact of criminalization for individual and societal well-being. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.
Prerequisite(s): CJ 100.

CJ 408. Gendered Justice. 3 sem. hrs.

CJ 410. Community Based Correctn. 3 sem. hrs.
Study of intermediate punishments and alternatives to incarceration.

CJ 420. Seminar In Law Enforcement. 3 sem. hrs.
Examines the philosophical basis of law enforcement and traces the development of the law enforcement function.

CJ 421. Crime Prevention/Control. 3 sem. hrs.
Survey of crime control models.
Prerequisite(s): CJ 100.

CJ 422. Terrorism . 3 sem. hrs.
An analysis of selected areas of terrorism and counter-terrorism, with an emphasis on parallels between terrorism and crime.
Prerequisite(s): CJ 100 - Introduction to Criminal Justice.

CJ 423. Issues in Homeland Security . 3 sem. hrs.
The course will offer an overview of the United States Department of Homeland Security from its initiation to present day, and the wide range of issues that the department influences, both policy and operational. Additionally, how the United States Department of Homeland Security interacts with state, local, and tribal governments, or law enforcement agencies.
Prerequisite(s): CJ 100 - Introduction to Criminal Justice.

CJ 450. Seminar In Judicial Process. 3 sem. hrs.
Examines the philosophical basis of the American legal system and traces the development of the judicial process.

CJ 460. Criminal Law I. 3 sem. hrs.
Classification and analysis of selected areas of the substantive law of crimes, including basic principles of criminal law and crimes against the person and property.
Prerequisite(s): CJ 100.

CJ 461. Criminal Law II. 3 sem. hrs.
General principles and theories of criminal procedure, including concepts of due process, arrest, search and seizure, wiretapping, lineups, and other recent developments.
Prerequisite(s): CJ 100.

CJ 470. Seminar In Corrections. 3 sem. hrs.
History, analysis, and evaluation of American correctional institutions, including the sociology of confinement and reform movements within the system.
Prerequisite(s): CJ 100.

CJ 483. Law And Society. 3 sem. hrs.
Law as an instrument of social control, the functions and limitations of law, and the machinery of law as a part of the larger society. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100.

CJ 490. Spec Topics Crim Justice. 3 sem. hrs.
Examination of selected problems and issues in criminal justice. May be taken twice, provided the topic is different.
Prerequisite(s): CJ 100.

CJ 499. Independnt Study In CJ. 1-6 sem. hr.
Research under faculty supervision in any area of interest to the student.

Critical Language (CRL) Courses

CRL 101. Elementary Critical Language I. 1-6 sem. hr.
This course is for students studying any beginning level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different languages.

CRL 102. Elem. Critical Language II. 1-6 sem. hr.
This course is equivalent to the second semester level of less commonly taught languages at the Critical Language Center or abroad, and repeatable for credit with different languages.

CRL 201. Int. Critical Language I. 1-6 sem. hr.
This course is equivalent to the third semester level of a less commonly taught language at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL 202. Int. Critical Languages II. 1-6 sem. hr.
This course is equivalent to the fourth semester level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL 301. 3rd Year Critical Lang. I. 1-6 sem. hr.
This special course is for students who have already aquired the intermediate level of a less commonly taught language, pursuing the further level at the Critical Languages Center.

CRL 302. 3rd Year Critical Lang. II. 1-6 sem. hr.
This course is a continuation of CRL 301, only available with appropriate staff, tutor, and external examiner availability, and with permission of the Critical Languages Center director.

Croatian (CROA) Courses

CROA 101. Elem Croatian Language. 3 sem. hrs.
Contemporary Croatian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

CROA 102. Elem Croatian Language. 3 sem. hrs.
Contemporary Croatian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

Curriculum and Instruction (CIE) Courses

CIE 480. Meth Teach Foreign Langs. 3 sem. hrs.
Theories, methods, techniques, and essential media for teaching foreign languages effectively. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CIE 497. Intern Foreign Lang Educ. 3-12 sem. hrs.
Observation and teaching of the major subject in an elementary and secondary school. Offered in the fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program.

Czech (CZE) Courses

CZE 101. Elem Czech Language. 3 sem. hrs.
Contemporary Czech: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

CZE 102. Elem Czech Language. 3 sem. hrs.
Contemporary Czech: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

CZE 201. Intermediate Czech. 3 sem. hrs.
Continuation of Czech language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): CZE 102.

CZE 202. Intermediate Czech. 3 sem. hrs.
Continuation of Czech 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): CZE 102.

Dance (DN) Courses

DN 101. Beginning Ballet. 2 sem. hrs.
A studio course in classical ballet at the beginning level.

DN 110. Intro To Dance Styles. 2 sem. hrs.
Introduction to ballet, modern, and jazz dance through theory and practice at the beginning level.

DN 111. Modern Dance Technique I. 3 sem. hrs.
This course will introduce the basics of modern dance techniques.

DN 121. Ballet Technique I-A. 3 sem. hrs.
A studio course in classical ballet for first year dance majors or musical theatre majors. Offered in the fall semester.

DN 122. Ballet Technique I-B. 3 sem. hrs.
The development of theory and practice of classical ballet for first year dance majors or students with some previous experience in ballet.

DN 142. World Dance. 2 sem. hrs.
An introduction to dance movement as influenced by various cultures.

DN 151. Jazz Technique I. 3 sem. hrs.
Introduction to jazz dance technique and style through dance studio work.

DN 200. Special Topics. 3 sem. hrs.
Investigation of dance theories and principles.

DN 210. Dance Styles II. 3 sem. hrs.
This course will include study of various dance styles at the intermediate level. The styles will represent dance forms from theatrical productions. May be repeated for a maximum of 6 hours. Musical Theatre majors only or permission of the instructor.

DN 211. Modern Dance II-A. 3 sem. hrs.
A studio course in modern dance techniques at the intermediate level.

DN 212. Modern Dance II-B. 3 sem. hrs.
A studio course in modern dance technique at the advanced intermediate level.

DN 221. Ballet Technique II-A. 3 sem. hrs.
Development of classical ballet technique, and performance quality at the intermediate level for dance majors.
Prerequisite(s): DN 121 or DN 122.

DN 222. Ballet Technique II-B. 3 sem. hrs.
Development of the classical theory and practice of ballet, at the intermediate level.
Prerequisite(s): DN 221.

DN 251. Jazz Technique II-A. 3 sem. hrs.
A studio course in jazz dance technique at the intermediate level.

DN 252. Jazz Technique II-B. 3 sem. hrs.
A studio course in jazz dance technique at a more advanced intermediate level.

DN 300. Special Topics. 1-3 sem. hr.
Study of dance theories and principles for performance,choreography or pedagogy. Permission of instructor.

DN 301. Special Topics II. 1-3 sem. hr.
This course will focus on one area of dance such as technique, repertoire, composition or pedagogy in order to facilitate a more advanced analysis of that specific area.

DN 310. Dance Styles III. 3 sem. hrs.
A studio course in various dance styles used for concert dance or theatrical productions. For Musical Theatre majors. May be repeated for a maximum of 6 hours.
Prerequisite(s): DN 210.

DN 311. Modern Dance Technique III-A. 3 sem. hrs.
Development of modern dance technique at the advanced level.
Prerequisite(s): DN 211 or DN 212.

DN 312. Modern Dance Technique III-B. 3 sem. hrs.
Development of advanced modern dance technique, preparing the student for pre-professional work.
Prerequisite(s): DN 211 or DN 212.

DN 321. Ballet Technique III-A. 3 sem. hrs.
Advanced ballet technique including ladies' pointe work and men's technique.

DN 322. Ballet Technique III-B. 3 sem. hrs.
Continuation of advanced ballet technique including ladies' pointe work and men's technique.

DN 351. Jazz Technique III-A. 3 sem. hrs.
This course will cover jazz dance technique at a more advanced level. this class will focus on technique in order to prepare the student for higher level jazz classes that emphasize performance elements.
Prerequisite(s): DN 251 or DN 252.

DN 352. Jazz Technique III-B. 3 sem. hrs.
Development of advanced jazz dance technique preparing the student for professional work.
Prerequisite(s): DN 251 or DN 252.

DN 380. Independent Study In Dance. 3 sem. hrs.

DN 381. Indep Study In Dance. 3 sem. hrs.

DN 400. Special Topics. 3 sem. hrs.
Prepare dancers for a professional career in dance performance through the rehearsal process of learning and performing, ballet, modern and jazz dance repertoire.

DN 410. Advanced Tap Technique. 3 sem. hrs.
An advanced course focusing on tap dance language and the execution of advanced tap technique.
Prerequisite(s): DN 210 and DN 310.

DN 411. Modern Dance Technique IV-A. 3 sem. hrs.
Continued development of modern dance technique at the advanced level.
Prerequisite(s): DN 311 or DN 312.

DN 412. Modern Dance Technique IV-B. 3 sem. hrs.
Continued development of advanced modern dance technique, preparing the student for professional work.
Prerequisite(s): DN 311 or DN 312.

DN 421. Ballet Technique IV-A. 3 sem. hrs.
Advanced ballet technique including rehearsal and performance of ballet variations in preparation for professional work.
Prerequisite(s): DN 321 or DN 322.

DN 422. Ballet Technique IV-B. 3 sem. hrs.
Continued development of ballet technique and variations preparing the student for professional work.
Prerequisite(s): DN 321 or DN 322.

DN 440. Choreography III. 3 sem. hrs.
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.
Prerequisite(s): DN 340 and TH 290 and TH 324.

DN 451. Jazz Technique IV-A. 3 sem. hrs.
This course is jazz dance technique at the advanced/pre-professional level. Will focus on elements of technique and style for concert, commercial, and musical theatre jazz. Special attention will be given to developing performance qualities.
Prerequisite(s): DN 352 and DN 351.

DN 452. Jazz Technique IV-B. 3 sem. hrs.
Advanced jazz dance technique preparing the student for professional work.
Prerequisite(s): DN 352.

Dance Academics (DNCA) Courses

DNCA 240. Choreography I. 3 sem. hrs.
Basic exploration of the rhythmic and spatial elements in the development of movement phrases and choreographic dance studies.

DNCA 265. Anatomy For Dance. 3 sem. hrs.
Lecture/studio course covering the basics of the musculoskeletal system and dance kinesiology.

DNCA 340. Choreography II. 3 sem. hrs.
Exploration in more complex choreographic forms and compositions.
Prerequisite(s): DNCA 240 or DN 240.

DNCA 403. Approach Dance Instructn. 3 sem. hrs.
A course developing techniques for teaching of ballet, modern, and jazz dance styles.
Prerequisite(s): DNCA 265 or DN 265.

DNCA 440. Choreography III. 3 sem. hrs.
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.
Prerequisite(s): DNCA 340 or DN 340; and TH 324.

DNCA 470. History Of Dance I. 3 sem. hrs.
The history of dance from pre-classic, romantic, classical and early modern ballet.

DNCA 471. History of Dance II. 3 sem. hrs.
The history of dance with an emphasis on 20th century and contemporary dance styles.
Prerequisite(s): DNCA 470.

Dutch (DUT) Courses

DUT 101. Elementary Dutch. 3 sem. hrs.
Contemporary Dutch: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

DUT 102. Elementary Dutch. 3 sem. hrs.
Contemporary Dutch: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): DUT 101.

DUT 202. Intermediate Dutch. 3 sem. hrs.
Continuation of DUT 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): DUT 102.

Economics (EC) Courses

EC 110. Principles of Microeconomics. 3 sem. hrs.
Introduction to microeconomic analysis concentrating on consumer and producer behavior, competitive and imperfect markets, public policy and regulation, and income distribution.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146.

EC 111. Principles of Macroeconomics. 3 sem. hrs.
Introduction to macroeconomic analysis concentrating on national income, price levels, employment, monetary and fiscal policies, and international trade and development.
Prerequisite(s): EC 110.

EC 210. Microeconomic Policy Analysis. 3 sem. hrs.
This course uses economic analysis to examine a range of public policy issues.
Prerequisite(s): EC 110.

EC 211. Macroeconomic Policy Analysis. 3 sem. hrs.
Building on the macroeconomics background of EC 111, students will consider current national and international economic problems and issues.
Prerequisite(s): EC 111.

EC 300. Current Economic Problms. 3 sem. hrs.
Prerequisite(s): EC 110 and EC 111.

EC 308. Intermediate Microeconomics. 3 sem. hrs.
Examination of the theory of price and the theory of resource allocation. Topics include demand theory, production and cost functions, pricing and output under competitive and noncompetitive conditions, resource markets, and rudiments of general equilibrium analysis.
Prerequisite(s): MATH 121 or MATH 125; and EC 110 and EC 111.

EC 309. Intermediate Macroeconomics. 3 sem. hrs.
A study of the theoretical framework underlying income, employment, and growth analysis.
Prerequisite(s): EC 110 and EC 111.

EC 389. Computerized Mgt Info Systems. 3 sem. hrs.
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Students may not receive credit for EC 389 and FI 389.
Prerequisite(s): ST 260 or ST 250 and ST 251; and AC 210 and EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

EC 400. Analysis Econ Cond Micro.Macro. 3 sem. hrs.
Not open to majors in economics and finance. Uses basic economic theory to assess real-world business and economic conditions at the micro and macro levels.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and OM 300 and FI 302.

EC 410. Law And Economics. 3 sem. hrs.
This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 308.

EC 412. Industrial Organization. 3 sem. hrs.
Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.
Prerequisite(s): EC 308.

EC 413. Economic Forecast & Analysis. 3 sem. hrs.
Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 308 and EC 309.

EC 416. Monetary Theory & Policy. 3 sem. hrs.
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): EC 110 and EC 111.

EC 423. Public Finance. 3 sem. hrs.
Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308.

EC 430. International Trade. 3 sem. hrs.
Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.
Prerequisite(s): EC 308.

EC 431. International Finance. 3 sem. hrs.
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430.

EC 442. Economic Development of Latin America. 3 sem. hrs.
A comparative analysis of economic strategies, problems, issues, and policy outcomes with special attention given to Mexico, Costa Rica, Cuba, and Brazil.
Prerequisite(s): EC 110 and EC 111.

EC 444. Political Economy of Terrorism. 3 sem. hrs.
Rational actor models applied to the study of terrorism. Empirical examination of the economic impact of terrorism and of the effectiveness of anti-terrorism policies.
Prerequisite(s): EC 308.

EC 450. History of Economic Concepts. 3 sem. hrs.
Study of the development of economic theory from Adam Smith to the present day.
Prerequisite(s): EC 308 and EC 309.

EC 453. Comparative Economic Systems. 3 sem. hrs.
Comparative analysis of contrasting economic systems based on the type of ownership (private versus state) and on the coordinating mechanism (market versus central command). Emphasis is given to fundamental changes in economic systems that are currently under way.
Prerequisite(s): EC 110 and EC 111.

EC 470. Intro To Math Econ. 3 sem. hrs.
Application of selected mathematical methods to the analysis of economic problems.
Prerequisite(s): EC 309.

EC 471. Econometrics. 3 sem. hrs.
This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.
Prerequisite(s): MATH 121 or MATH 125; and ST 260 or ST 250 and ST 251; and EC 110 and EC 111.

EC 473. Games and Decisions. 3 sem. hrs.
An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.
Prerequisite(s): MATH 121 or MATH 125 with a minimum grade of C-.

EC 480. Econ Of Environment. 3 sem. hrs.
Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.
Prerequisite(s): EC 308.

EC 482. Seminar On Econ Issues. 3 sem. hrs.
Group discussion of current economic issues together with analysis and policy recommendations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111.

EC 483. Health Care Economics. 3 sem. hrs.
An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.
Prerequisite(s): EC 308.

EC 491. Independent Study. 1-6 sem. hr.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): EC 110 and EC 111.

EC 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111.

EC 497. Spec Topics In Economics. 1-3 sem. hr.
Prerequisite(s): EC 110 and EC 111.

Education Orientation (EDU) Courses

EDU 200. Orient to Teacher Education. 1 sem. hr.
This course is designed to prepare prospective candidates with the necessary prerequisite knowledge required for success in TEP.

EDU 401. Dyn. of American Ed: Honors. 3 sem. hrs.
The purpose of the course is to provide an introduction to the foundational and curricular components of education. Students will analyze key socio-cultural, academic, political and economic issues and examine the role of the teacher, student and community member in American education.

EDU 402. Diversity and Advocacy. 3 sem. hrs.
This course examines differences and diversity of students in education through the exploration of ethnicity, disability, gender and class. The course develops knowledge and tools for advocacy through an understanding of relevant law and experience through service.

EDU 403. Educational Policy. 3 sem. hrs.
This course traces the development of educational policy through the history of educational reform from the Common School Movement to the development of No Child Left Behind and its evolution to the present time. Readings and discussion will analyze the development of policy in the context of social, political, legal and institutional contributions to the purposes of public education from diverse viewpoints.

EDU 410. The Educational Studies Minor Capstone Seminar. 3 sem. hrs.
The purpose of this seminar is to facilitate students as educational researchers and advocates. Students will integrate what they have learned in the program to conduct research around a problem they will identify.
Prerequisite(s): EDU 401 and EDU 403 and EDU 402.

Educational Psychology (BEP) Courses

BEP 110. Intro Learning Strateg Skills. 3 sem. hrs.
Provides students with a theoretical and practical understanding of the importance and use of specific learning strategies. This course will also engage students in reflective decision making and critical evaluation of their learning process.

BEP 305. Educational Psychology. 3 sem. hrs.
Covers the psychological principles basic to an understanding of the learner, the learning process, and the learning situation.
Prerequisite(s): PY 101 or HD 101 or PY 105.

BEP 360. Social Psychol Foundtns Educ. 3 sem. hrs.
An examination of the social, psychological, philosophical, and historical foundations of education in a modern democratic society. Critical attention is paid to contrasting theories of human nature, the learner and the learning process that, when combined with judgments about the purpose and conduct of life, have shaped pedagogy.
Prerequisite(s): PY 101 or HD 101.

BEP 410. Academic Mentoring. 1-6 sem. hr.
Introduction to academic mentoring is a service learning and leadership course. Students mentor K-12 school students in academic subjects. Class readings and discussions support the mentoring relationship by focusing on learning, motivation, metacognition, listening, personality, and the social contexts of schooling.

Educational Research (BER) Courses

BER 345. Educational Statistics. 3 sem. hrs.
Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

BER 450. Assess Of Classrm Learng. 3 sem. hrs.
Survey of teacher-made and standardized instruments for understanding students' achievement and evaluating teaching. Field practicum in the schools is required.

Electrical and Computer Engineering (ECE) Courses

ECE 121. Introduction to Electrical and Computer Engineering. 1 sem. hr.
Introduction to electrical and computer engineering disciplines, specializations, the engineering design process, mathematics required for these disciplines, computer-based modeling and simulation tools, and professional responsibilities.
Prerequisite(s): MATH 110
Prerequisite(s) with concurrency: ECE 131 and ENGR 111.

ECE 225. Electric Circuits. 4 sem. hrs.
Physical concepts and mathematical techniques of circuit analysis; DC, transient, and sinusoidal steady-state analysis of circuits; Includes laboratory experiments.
Prerequisite(s): PH 106 and PH 126, MATH 227 and MATH 238.

ECE 285. Programing for Elec/Comp Eng. 2 sem. hrs.
Algorithm design, programming, test and debugging skills using the C programming language. Applications to engineering problem solving in electrical and computer engineering.
Prerequisite(s): MATH 125 or MATH 145; and CS 150
Prerequisite(s) with concurrency: CS 150.

ECE 320. Fundmtl Electrical Engr. 3 sem. hrs.
Introduction to circuit analysis, methods, resistive circuits, AC circuits, first-order transients, AC power, operational amplifiers, and machines. Not open to electrical engineering majors or to students who have earned credit for ECE 225.
Prerequisite(s): PH 106; and MATH 238 or MATH 247
Prerequisite(s) with concurrency: MATH 238.

ECE 326. Electric Networks. 3 sem. hrs.
Response of circuits to transient signals, both deterministic and random. Laplace transform solution techniques for circuits and differential equations. Relationship between Laplace and Fourier transforms. Frequency response and representation of circuits and systems. Modeling of uncertainty in circuit elements.
Prerequisite(s): ECE 225 and MATH 238 and MATH 355.

ECE 330. Intro. to Semiconductor Device. 3 sem. hrs.
Seminconductor device physics, PN junction, Schottky diodes, BJT, MOS capacitor, MOSFET, and optoelectronic devices. Brief introduction of microelectronic fabrication.
Prerequisite(s): PH 253 and ECE 225
Prerequisite(s) with concurrency: ECE 225.

ECE 332. Electronics I. 4 sem. hrs.
Semiconductor materials and properties, fundamentals of p-n junctions, diodes, diode circuits and operation, signal generators, rectifier and wave-shaping circuits, bipolar and field effect transistors, MOSFET, transistor DC circuit analysis, basic transistor amplifiers. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): ECE 225 or ECE 320; and EN 102.

ECE 333. Electronics II. 4 sem. hrs.
Operational amplifiers, BJTs, MOSFETs, integrated current biasing and active loads, differential and multistage amplifiers, frequency response, feedback and stability, power amplifiers, and introduction to digital circuits. The lab deals with experiments illustrating concepts in electronics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ECE 332.

ECE 340. Electromagnetics. 4 sem. hrs.
Electrostatics, magnetostatics, Maxwell's equations, plane waves, guided waves, and radiation.
Prerequisite(s): PH 106 and MATH 227 and MATH 238
Prerequisite(s) with concurrency: MATH 238.

ECE 350. Electric Power & Machines. 3 sem. hrs.
Single- and three-phase power system analysis. Theory and operation of electromechanical devices, including magnetic circuits, transformers, as well as DC and AC rotating machines. Fundamentals of power electronics.
Prerequisite(s): ECE 225 or ECE 320.

ECE 370. Signals And Systems. 3 sem. hrs.
Time domain and frequency domain analysis of continuous and discrete signals and systems; Fourier integral, Fourier series, Z-transform. Numerical implementation using MatLab.
Prerequisite(s): ECE 225 and ECE 285.

ECE 380. Digital Logic. 4 sem. hrs.
Number systems, Boolean algebra, logic functions and gates, design of combinational logic systems, flip-flops, design of synchronous sequential systems, and iterative networks. Includes laboratory experiments.
Prerequisite(s): (CS 150 or CBH 101) and (MATH 125 or MATH 145).

ECE 383. Microcomputers. 4 sem. hrs.
Microprocessors, microcontrollers, assembly-language programming, interrupts, polling and hardware interfaces. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (ECE 285 or CS 250 or CBH 101) and ECE 380.

ECE 404. Sensor Networks. 3 sem. hrs.
Basic architecture and applications of wireless sensor networks (WSN). Hardware components of WSN, WSN operating systems, transport layer, routing layer, MAC layer and data link layer of WSN.
Prerequisite(s): ECE 383.

ECE 406. Computer Commiunications and Networks. 3 sem. hrs.
Introduction to computer communications and networks. Topics include physical topologies, various protocols, the OSI and TCP/IP Reference Models, error detection and correction, routing algorithms, congestion control, example networks, and network applications.
Prerequisite(s): CS 325 and CS 357 and ECE 383.

ECE 408. Communications. 3 sem. hrs.
Analog and digital communication systems, random signals, sampling, filtering, analog-to-digital encoding, advanced digital modulation/demodulation, source encoding/decoding, channel encoding/decoding, multiplexing, system performance anaylsis.
Prerequisite(s): MATH 355 and ECE 370.

ECE 409. Communications Lab. 1 sem. hr.
Modeling and design of communication systems. Familiarization with specialized communications equipment and techniques. Proper use of laboratory instruments.
Prerequisite(s): ECE 370 and ECE 408
Prerequisite(s) with concurrency: ECE 408.

ECE 430. Solid State Devices. 3 sem. hrs.
Solid state physics for semiconductor devices, p-n junction, metal-semiconductor junction, JFET/MESFET, MOSFET, BJT and non-ideal behaviors of solid state devices. Organic thin film devices including organic solar cells, thin film transistors, light emitting diodes and their application for flexible displays.
Prerequisite(s): ECE 330.

ECE 432. VLSI Design. 3 sem. hrs.
Digital design issues in the context of VLSI systems. Introduction to CMOS digital design methodology, layout techniques, behavior models, circuit simulation and testing of complex systems.
Prerequisite(s): ECE 332.

ECE 434. Mixed Signal Circuits. 3 sem. hrs.
Design and testing issues in the context of mixed-signal embedded systems. Introduction to CMOS mixed-signal design methodology, layout techniques, analog to digital converters, digital to analog converters, circuit simulation, and testing and packaging of complex mixed-signal systems.
Prerequisite(s): ECE 332.

ECE 438. Intgr Circuit Fabr Prin. 3 sem. hrs.
Study of the processing tools used in semiconductor device fabrication. Topics include semiconductor fundamentals, semiconductor device fabrication processes, interconnections and contacts, integrated circuit packaging, and chip yield.
Prerequisite(s): ECE 333 or MTE 271.

ECE 439. Thin Film Technology. 3 sem. hrs.
Crystal structure and defects, film nucleation and growth models, growth of polycrystalline and epitaxial films, vacuum science technology, physical and chemical vapor deposition, solution based methods and thin film characterization techniques.
Prerequisite(s): ECE 225 or PH 253.

ECE 440. Electromagnetic Waves. 3 sem. hrs.
Mathematics and physics of the radiation, propagation and scattering of electromagnetic waves. Boundary value problems involving finite and infinite structures, waveguides, antennas and media.
Prerequisite(s): ECE 340.

ECE 445. Antennas. 3 sem. hrs.
Transmission and reception of power and information in free space; antennas as interface elements; impedance and radiation characteristics of modern antennas.
Prerequisite(s): ECE 340 or PH 332.

ECE 451. Power Electronics. 3 sem. hrs.
Detailed study on the theory and operation of power electronics converters and systems. Overview of enabling power semiconductors switching devices. Introduction to feedback control of converters. Machine drive fundamentals.
Prerequisite(s): ECE 332 and ECE 350.

ECE 452. Power Electronics Laboratory. 1 sem. hr.
Laboratory experience in three phase power systems and electric machinery. Laboratory experience on the theory and operation of power electronic converters, systems and machine drives.
Prerequisite(s): ECE 332 and ECE 350
Prerequisite(s) with concurrency: ECE 451.

ECE 453. Power Systems. 3 sem. hrs.
Basic power systems concepts and per unit quantities; transmissions line, transformer and rotating machine modeling; power flow; symmetrical component of power systems; faulted power system analysis.
Prerequisite(s): ECE 350.

ECE 454. Power Systems Laboratory. 1 sem. hr.
Test and analysis of power systems and machine devices and the design of systems using devices.
Prerequisite(s): ECE 350 and ECE 453
Prerequisite(s) with concurrency: ECE 453.

ECE 455. Electromechanical Systems. 3 sem. hrs.
Static and dynamic modeling, analysis, and simulation of mechanical, electrical, hydraulic and mixed systems. MATLAB and SIMULINK model development and simulation.
Prerequisite(s): ECE 225 and MATH 238.

ECE 461. Quantum Well Elec & Devices. 3 sem. hrs.
Energy levels and wave functions of semiconductor microstructures; envelope function approximation; quantum wells, superlattices; excitons; optical and electrical properties; selection rules; quantum confined Stark Effect; Wannier-Stark localization; field-effect transistors, tunneling devices, quantum well lasers, electro-optic modulators and quantum-well intersubband photodetectors.
Prerequisite(s): ECE 330 or PH 253.

ECE 462. Semiconductor Optoelectronics. 3 sem. hrs.
Elemental and compound semiconductors; fundamentals of semiconductor physical properties; solid state physics; optical recombination and absorption; light emitting diodes; quantum well lasers; quantum dot lasers; blue lasers; semiconductor modulators; photodetectors; semiconductor solar cells; semiconductor nanostructure devices.
Prerequisite(s): PH 253.

ECE 463. Magnetic Materials & Devices. 3 sem. hrs.
Diamagnetism and Paramagnetism, Ferromagnetism, Antiferromagnetism, Ferrimagnetism, magnetic anisotropy, domains and the magnetization process, fine particles and thin films and magnetization dynamics.
Prerequisite(s): ECE 340.

ECE 466. Fund of Nanotechnology. 3 sem. hrs.
Nanofabrication with electron beam lithography, focused ion beam, lithography, and nanoimprint; microscopies for nanostructures, including SEM, EDX, TEM, AFM, STM; nanoscale devices based on nanostructured materials (carbon nanotubes and metal oxide nanomaterials).
Prerequisite(s): ECE 330 or PH 253.

ECE 475. Control Systems Analysis. 3 sem. hrs.
Classical and modern feedback control system methods; stability; Bode, root locus, state variables, and computer analysis.
Prerequisite(s): ECE 326.

ECE 476. Control Systems Lab. 1 sem. hr.
Practical analysis and design of feedback control systems and components; electrical, mechanical, and electromechanical systems.
Prerequisite(s): ECE 326
Prerequisite(s) with concurrency: ECE 475.

ECE 479. Digital Control Systems. 3 sem. hrs.
Frequency and time methods in discrete time control systems; sampling of continuous-time signals, stability, transform design techniques, and state variable analysis and design techniques.
Prerequisite(s): MATH 237 and ECE 370 and ECE 475.

ECE 480. Digital Systems Design. 3 sem. hrs.
Digital systems design with hardware description languages, programmable implementation technologies, electronic design automation design flows, design considerations and constraints, design for test, system-on-a-chip designs, IP cores, reconfigurable computing and digital system design examples and applications.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 481.

ECE 481. Digital Systems Design Lab. 1 sem. hr.
Logic design and simulation via hardware description languages, use of electronic design automation tools, and CPU design.
Prerequisite(s) with concurrency: ECE 480.

ECE 482. Comp Visn Dig Image Proc. 3 sem. hrs.
Introduction to computer vision and digital image processing with an emphasis on image representation, transforms, filtering, compression, boundary detection, and pattern matching.
Prerequisite(s): MATH 355 and ECE 285.

ECE 484. Computer Architecture. 3 sem. hrs.
Basic computer organization, computer arithmetic, assembly language, machine language, simple and pipelined central-processor organization, memory system hierarchy, and measuring computer performance.
Prerequisite(s): ECE 383.

ECE 485. Programmable Logic Controllers. 3 sem. hrs.
Programmable Logic Controllers, fundamentals of ladder logic programming and PLC systems, advanced PLC operation, and related topics, including networking, control applications and human-machine interface design.
Prerequisite(s): ECE 383.

ECE 486. Embedded Systems. 3 sem. hrs.
Integration of microprocessors into digital systems. Includes hardware interfacing, bus protocols and peripheral systems, embedded and real-time operating systems, real-time constraints, networking, and memory system performance.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 487.

ECE 487. Embedded Systems Laboratory. 1 sem. hr.
Projects provide hands-on experience in hardware interfacing, system-level design, real-time concepts and memory system performance.
Prerequisite(s): ECE 383
Prerequisite(s) with concurrency: ECE 486.

ECE 491. Special Problems. 1-8 sem. hr.
Investigation of a problem or problems, usually involving research with a faculty member. Credit is based on the individual assignment.

ECE 492. Capstone Design I. 2 sem. hrs.
First of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project. Also, the first-semester course will include instruction in design methodology, engineering ethics, societal impacts, project economics, and management tools.
Prerequisite(s) with concurrency: ECE 333.

ECE 493. Selected Topics. 1-8 sem. hr.
Special courses in all areas of electrical or computer engineering, offered as the need arises. Credit is based on the course requirements.

ECE 494. Capstone Design II. 2 sem. hrs.
Second of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project.
Prerequisite(s): ECE 492.

ECE 498. Honors Problems I. 1-3 sem. hr.
Investigation of an electrical or computer engineering research or design problem.

ECE 499. Honors Problems II. 1-3 sem. hr.
Investigation of an electrical or computer engineering research or design problem.

Elementary Education Programs (CEE) Courses

CEE 304. Teach Elem School Scienc. 3 sem. hrs.
Teaching experiences related to K-6 children's learning of science, with emphasis on teaching strategies that use inquiry approaches.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 366 and CEE 401 and CEE 478 and CEE 496 and BER 450.

CEE 320. Survey Elementary Eductn. 3 sem. hrs.
Surveys elementary education as a professional career. Students become acquainted with factors affecting successful teaching in the elementary school.

CEE 365. Literature For Children. 3 sem. hrs.
Selection and teaching of literature for elementary school children at various developmental levels, according to interests, needs, and abilities. Intensive field experience.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 370 and CEE 380 and CEE 401 and CEE 495 and KIN 364.

CEE 366. Teaching Social Sciences. 3 sem. hrs.
The nature of elementary school social studies, the resource unit, kinds of materials, teaching procedures, and the evaluation of learning. Intensive field experience.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 304 and CEE 401 and CEE 478 and CEE 496 and BER 450.

CEE 370. Teaching Reading Elem School. 3 sem. hrs.
Materials and methods in the teaching of reading, with emphasis on assessment-based instruction and planning a balanced program. Intensive field experience. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 365 and CEE 380 and CEE 401 and CEE 495 and KIN 364.

CEE 380. Teaching Elem Math. 3 sem. hrs.
Teaching experiences related to children's developmental learning of elementary mathematics, with emphasis on teaching strategies, manipulatives, and other materials useful in teaching content. Intensive field experience.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 401 and CEE 495 and KIN 364.

CEE 401. Managing Effective Classrooms. 1-6 sem. hr.
This course is designed to teach students the principles and theory of classroom management. Emphasis will be placed on the design and implementation of classroom management methods and techniques.
Prerequisite(s): Admission to Teacher Education Program.

CEE 478. Teach Lang Arts In Elem School. 3 sem. hrs.
Deepening understanding of the materials and methods for teaching of language arts with emphasis on planning and implementing a writing program. Intensive field experience. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 304 and CEE 366 and CEE 401 and CEE 496 and BER 450.

CEE 491. Early Childhood Curr. & Inst. 3-6 sem. hrs.
A foundation in the materials and methods for teaching in early childhood classrooms with an emphasis on child development, assessment, and instruction. Completion of Professional Semester II courses required.
Prerequisite(s): Admission to Teacher Education Program.

CEE 495. Practicum. 1-4 sem. hr.
Open only to students in professional semester II of the elementary education program. This course offers students significant clinical experience and opportunities to plan and teach lessons.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 380 and CEE 401 and KIN 364.

CEE 496. Senior Practicum. 3 sem. hrs.
A field-based course providing opportunities to practice authentic classroom application of various subject areas in elementary education.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 304 and CEE 366 and CEE 401 and CEE 478 and BER 450.

CEE 497. Internship Elem School. 4.5-7.5 sem. hrs.
Observation, participation, and teaching experiences supervised by selected cooperating teachers in public elementary schools. Additional supervision is provided by College of Education personnel. Offered fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CEE 401.

Engineering Graphics (DR) Courses

DR 100. Technical Sketching Engineers. 1 sem. hr.
Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 117 or MATH 121 or MATH 125 or MATH 126 or MATH 131 or MATH 132 or MATH 145 or MATH 146.

DR 133. 2d Autocad For Engineers. 2 sem. hrs.
Prerequisite(s): DR 100.

DR 135. Construction Drawing. 3 sem. hrs.
Introduction to the graphic language used by the construction industry. Covers architectural plans, elevations, sections, and pictorials, executed by freehand sketches, instrument drawings, and computer-aided drawings.
Prerequisite(s): Remove pre-requisites and co-requisites.
Prerequisite(s) with concurrency: CTD 121.

DR 250. Construction Materials & Proc. 3 sem. hrs.

DR 355. Auto Cad Interior Design. 3 sem. hrs.
Use of AutoCAD software to produce two-dimensional architectural drawings, such as floor plans, elevations, sections and details. Explores three-dimensional views and presentation techniques.

English (EN) Courses

EN 099. Basic Writing. 3 sem. hrs.

EN 100. Basic Writing. 3 sem. hrs.
Fundamentals of expository writing. EN 100 is designed for students who feel uncertain of their readiness for EN 101. Students may place themselves into EN 100, and should consider this course if they scored at or below 16 ACT English or 400 SAT verbal. EN 100 does not count toward core writing composition (FC) requirements but allows students to earn elective credit while strengthening their writing skills prior to taking EN 101. Students who do not earn grades of C- or higher in this course will be assigned grades of NC (No Credit).

EN 101. English Composition. 3 sem. hrs.
Introduction to college-level expository writing, critical reading, and preliminary research techniques, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 101 does not apply as credit to the English major or minor.

EN 102. English Composition. 3 sem. hrs.
Intermediate college-level expository writing covering the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 102 does not apply as credit to the English major or minor.
Prerequisite(s): EN 101.

EN 103. Advanced English Composition. 3 sem. hrs.
This is an accelerated freshman composition course that is open to students with minimum composite scores of 28 ACT Composite or 1250 SAT, or minimum ACT English scores of 30 or SAT verbal scores of 720. With the appropriate qualifying scores and the completion of EN 103 with a grade of C- or higher, placement credit is awarded for EN 101 and the general education requirement for freshman composition is completed. Expository writing. Topics to be determined by each instructor. Grades are reported as A, B, C, or NC (No Credit). A grade of C- is required as a prerequisite for advancing to another English course at The University of Alabama. EN 103 does not apply as credit to the English major or minor.
Prerequisite(s): 28 ACT composite or 1250 SAT OR ACT English score of 30 or SAT verbal score of 720.

EN 104. English Composition BUI. 3 sem. hrs.
College-level expository writing, critical reading, and library research. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). This course substitutes for either EN 103 Advanced Composition or EN 101 Freshman Composition I. Students who qualify for EN 103 (a score of 28 or higher on the ACT or 1240 on the SAT) are awarded an additional 3 hours of composition credit with a grade of "pass" upon successful completion of EN 104. Other students receive the same credit if they earn a grade of "A-" or higher. Students who earn a grade lower than "A-" are required to take three additional hours of freshman composition, generally EN 102. Students who have credit for EN 101 and EN 102 either from another institution or through AP or IB placement do not take EN 104. EN 104 does not apply as credit to the English major or minor.

EN 120. English Comp I Non Native Spkr. 3 sem. hrs.
The first in a two-course sequence, EN 120 introduces non-native English speakers to college-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered every semester.

EN 121. English Comp II Non-Native Spk. 3 sem. hrs.
The second course in UA's first-year sequence in composition, EN 121 introduces non-native English speakers to the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered each semester.
Prerequisite(s): EN 120.

EN 155. Freshman Seminar. 3 sem. hrs.

EN 200. Intro Creative Writing. 3 sem. hrs.
Study of topics relating to all genres of creative writing; introduction of genre-specific principles. Required of all creative writing minors. Credit for this course is not applicable toward the requirements of the English major or minor.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 205. English Literature I. 3 sem. hrs.
Survey of English literature from the Anglo-Saxon period to 1800, including, Chaucer, Shakespeare, and Milton.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 206. English Literature II. 3 sem. hrs.
Survey of English literature from 1800 to the present, including, works from the Romantic, Victorian, and Modern eras.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 207. World Literature I. 3 sem. hrs.
Survey of world literature from the Classical period to the Renaissance.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104 or EN 120 and EN 121.

EN 208. World Literature II. 3 sem. hrs.
Survey of world literature from the Enlightenment to the Modern period.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104 or EN 120 and EN 121.

EN 209. American Literature. 3 sem. hrs.
Survey of American literature from its beginnings to 1865, including, work by Poe, Thoreau, Emerson, Melville, and Whitman, among others.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 210. American Literature II. 3 sem. hrs.
Survey of American literature from 1865 to the present, including, work by Dickinson, Twain, Hemingway, Faulkner, and Morrison.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 215. Honors English Literature I. 3 sem. hrs.
Honors section of EN 205.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 216. Honors English Literature II. 3 sem. hrs.
Honors section of EN 206.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 219. Honors American Literature. 3 sem. hrs.
Honors section of EN 209.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 220. Honors American Literature II. 3 sem. hrs.
Honors section of EN 210.
Prerequisite(s): EN 101 and EN 102; or EN 103 or EN 104; or EN 120 and EN 121.

EN 249. African American Literature. 3 sem. hrs.
Survey of African American literature from its earliest expressions to the present. The course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.
Prerequisite(s): EN 101; and EN 102 or EN 103 or EN 104 or EN 120; and EN 121.

EN 300. Intro To English Studies. 3 sem. hrs.
An introduction for English majors to the methods employed in the discipline of English. Students will be exposed to the fundamental issues of critical reading, interpretation, and writing, especiall to the use of critical methods in the study of primary texts. Readings will include a selection of texts in the traditional categories of poetry, drama, and prose, as well as the genre of the critical essay. There may also be investigations into other genres and media.

EN 301. Prose Tour. 3 sem. hrs.
Study of basic principles of composing creative prose. Reading and assigned writing experiments in a broad range of prose forms. Required of all creative writing minors.
Prerequisite(s): EN 200.

EN 303. Poetry Tour. 3 sem. hrs.
Study of basic principles of composing poetry. Reading and assigned writing experiments in a broad range of poetic forms. Required of all creative writing minors.
Prerequisite(s): EN 200.

EN 309. Advanced Expository Writing. 3 sem. hrs.
Study and practice in methods of exposition, explanation and explication, logic and persuasion, definition and analogy, analysis and evaluation. Enrollment is limited to 15. Writing proficiency within this discipline is required for a passing grade in this course.

EN 310. Special Topics Writing. 3 sem. hrs.
Topics vary from semester to semester; examples are legal writing, writing about the social sciences and reading and writing in cyberspace. May be repeated once for credit.

EN 311. Special Topics In Literature. 3 sem. hrs.
Topics vary from semester to semester and may include courses offered by other departments.

EN 317. Writing Center Practicum. 3 sem. hrs.
An introduction to the history, theory and practice of Writing Centers. Students completing the course can apply for positions on the Writing Center staff.

EN 319. Technical Writing. 3 sem. hrs.
Focuses on principles and practices of technical writing, including audience analysis, organization and planning, information design and style, usability testing, and collaborative writing. Writing proficiency within this discipline is required for a passing grade in this course.

EN 320. Intro To Linguistics. 3 sem. hrs.
Introduction to the study of language, including subjects such as language acquisition, variation, and origins. The system of sounds, syntax, and meaning are illustrated in English and other languages. Prerequisite for EN 466.

EN 321. Linguis Approach English Gramr. 3 sem. hrs.
A study of English grammar integrating principles from linguistic theory with structural approaches to grammar. The course includes a focus on the expectations of grammatical usage in different contexts and an understanding of how to apply this knowledge in a pedagogical setting. This course is a prerequisite for EN 466.

EN 329. Directed Studies. 1-3 sem. hr.
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies. A reading list and a draft syllabus are required. Please see the departmental website for more information.

EN 330. Chaucer And Medieval Literatur. 3 sem. hrs.
Examines works of the Old and Middle English Periods, the formative years of British literature. Works from pre-conquest England may include Beowulf, Bede's History of the English Church, and poems from the Exeter and Vercelli manuscripts. The major works from the fourteenth and fifteenth centuries may include Sir Gawain and the Green Knight, William Langland's Piers Plowman, John Gower's Confessio Amantis, and Chaucer's Troilus and Criseyde and the Canterbury Tales.

EN 331. Chaucer. 3 sem. hrs.
Introduction to the works of Chaucer. This course includes a study of Chaucer's language as well as the 14th-century milieu.

EN 332. Sixteenth Century Literature. 3 sem. hrs.
A cross-genre survey of the literature of the Elizabethan period. Authors may include Sir Thomas More, Sir Thomas Wyatt, Sir Philip Sidney, Sir Walter Raleigh, Edmund Spenser, Aemilia Lanyer, Christopher Marlowe, and William Shakespeare.

EN 333. Shakespeare. 3 sem. hrs.
An introduction to Shakespeare's plays and poems. Elizabethan customs, politics, history, and philosophies are examined in relation to his works.

EN 334. Seventeenth Century Literature. 3 sem. hrs.
A cross-genre survey of literature in English from 1603 to 1660. Authors may include John Donne, Ben Jonson, Francis Bacon, John Webster, Lady Mary Wroth, William Bradford, Anne Bradstreet, and Andrew Marvell.

EN 335. Milton. 3 sem. hrs.
An introduction to Milton's English poetry along with the history, politics, aesthetics, philosophy, and theology of seventeenth-century England. Typically devotes approximately half the semester to a close reading of Paradise Lost.

EN 340. American Literature To 1900. 3 sem. hrs.
A cross-genre survey of American literature from its beginnings to 1900. Authors may include Mary Rowlandson, Cotton Mather, Phillis Wheatley, Nathaniel Hawthorne, Frederick Douglass, Henry James, and Mark Twain.

EN 341. American Poetry To 1900. 3 sem. hrs.
A survey of American poetry from its beginnings to 1900. Authors may include Anne Bradstreet, Edward Taylor, Edgar Allan Poe, Walt Whitman, and Emily Dickinson.

EN 342. American Fiction To 1900. 3 sem. hrs.
A survey of the development of American fiction from its beginnings to 1900, with attention to both the novel and the short story. Authors may include James Fenimore Cooper, Nathaniel Hawthorne, Harriet Beecher Stowe, Herman Melville, Mark Twain, and Kate Chopin.

EN 343. British Fiction To 1900. 3 sem. hrs.
A survey of developments in British fiction from its beginnings to 1900. Authors may include Aphra Behn, Daniel Defoe, Samuel Richardson, Henry Fielding, Jane Austen, Charles Dickens, and George Eliot.

EN 344. Major Authors 1660-1900. 3 sem. hrs.
Limited to a maximum of three authors. Attention to the national literatures of Britain and America, and to different genres of prose, drama, and poetry, will vary from semester to semester. Authors may include John Milton, Alexander Pope, Jane Austen, Ralph Waldo Emerson, Herman Melville, Frederick Douglass, and Emily Dickinson.

EN 347. English Lit During Enlightenmt. 3 sem. hrs.
A cross-genre survey of English literature during the period 1660-1800. Authors may include John Locke, John Bunyan, Mary Astell, Jonathan Swift, Lady Mary Wortley Montagu, Samuel Johnson, Hester Thrale, and James Boswell.

EN 348. Romantic Literature. 3 sem. hrs.
A cross-genre survey of British Romantic writers such as William Blake, Jane Austen, William Wordsworth, Samuel Taylor Coleridge, Lord Byron, John Keats, Percy Bysshe Shelley, and Mary Shelley.

EN 349. Victorian Literature. 3 sem. hrs.
A survey of the genres, authors, and issues in British literature, 1832-1900. Authors may include Thomas Carlyle, Elizabeth Barrett Browning, Robert Browning, Alfred, Lord Tennyson, Matthew Arnold, Dante Gabriel Rossetti, Christina Rossetti, and Oscar Wilde.

EN 350. Topics In African American Lit. 3 sem. hrs.
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

EN 360. Topics American Lit 1900-1945. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in America. Authors may include Henry James, Mark Twain, Edith Wharton, W.E.B. Du Bois, Gertrude Stein, Countee Cullen, Eugene O'Neill, and Wallace Stevens.

EN 361. Top American Lit 1945-Present. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in America. Authors may include Langston Hughes, Arthur Miller, James Baldwin, Norman Mailer, Toni Morrison, Sam Shepherd, Adrienne Rich, and John Ashbery.

EN 362. Topics British Lit 1900-1945. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in Britain. Authors may include Joseph Conrad, George Bernard Shaw, W. B. Yeats, Virginia Woolf, James Joyce, Katherine Mansfield, and T. S. Eliot.

EN 363. Top British Lit 1945-Present. 3 sem. hrs.
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in England. Authors may include Samuel Beckett, W. H. Auden, Doris Lessing, Seamus Heaney, Harold Pinter, and Jeanette Winterson.

EN 364. Modern Drama. 3 sem. hrs.
A survey of the major American, British, European and African plays from the 19th and 20th centuries. Authors may include Eugene O'Neill, Tennessee Williams, Ntozake Shange, Oscar Wilde, Harold Pinter, Tom Stoppard, August Strindberg, Anton Chekhov, Wole Soyinka and Athol Fugard.

EN 365. Modern American Fiction. 3 sem. hrs.
A survey of American fiction (novels and short stories) written in the 20th century. Authors may include F. Scott Fitzgerald, Willa Cather, William Faulkner, Toni Morrison, N. Scott Momaday and Leslie Marmon Silko.

EN 366. Twentieth Century Poetry. 3 sem. hrs.
A survey of major authors and trends in modern poetry in America, Britain, and the larger Anglophone world, as poetry in English became an international phenomenon. Attention will be paid to modernist and post-modernist poetry movements, American regionalisms, war poetry, and the poetry of neocolonial experiences.

EN 368. Modern British Fiction. 3 sem. hrs.
A survey of the twentieth-century novels and short stories produced by leading British and Irish writers. Authors may include James Joyce, Virginia Woolf, George Orwell, Iris Murdoch, A. S. Byatt, Martin Amis, V.S. Naipaul, Edna O'Brien, and J.M. Coetzee.

EN 371. Tragedy. 3 sem. hrs.
A cross-genre survey of tragic literature that may begin with the classical tragedians and proceed through the present. This course, like tragedy itself, will focus on the individual confronting the larger forces of society, god, or fate. This course considers changing conceptions of the tragic whether in fiction, poetry, or drama.

EN 373. Women In Literature. 3 sem. hrs.
A survey of British and American literature written by and/or about women. Authors may include a cross-genre range from Anne Bradstreet and Fanny Burney to Toni Morrison and Louise Erdrich.

EN 399. Honors Seminar in English. 3 sem. hrs.
Covers selected topics in English that vary from year to year. Topics are most likely to be thematic and to cut across conventional divisions of literary period and literary form. Required for departmental honors.
Prerequisite(s): EN 215 and EN 216 or EN 219 or EN 220.

EN 400. Senior Seminar. 3 sem. hrs.

EN 408. Advanced Creative Writing. 3 sem. hrs.
Special topics in imaginative writing. Focus may be on poetry, fiction, non fiction or a combination. Students produce imaginative writing and read related texts.
Prerequisite(s): EN 200 and EN 301 and EN 303.

EN 409. Writing For Film. 3 sem. hrs.
Introduction to the craft of writing for film and television.

EN 410. Writing Professional Non-Fict. 3 sem. hrs.
Study of imaginative prose engaged with factual subject matter. Reading of published creative nonfiction and assigned writing experiments will complement round table discussion and criticism of original student manuscripts.

EN 411. Adv Stdy Comptv Multi-Cutl Lit. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues involving comparative literatures and/or cultural studies. Writing proficiency within this discipline is required for a passing grade in this course.

EN 422. Adv Studies Americ Literature. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in American literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 423. History of the English Language. 3 sem. hrs.
An introduction to the external history of the English language along with the study of the accompanying internal changes in structure.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 424. Structure Of English. 3 sem. hrs.
Advanced study of the structure and usage of the English language, focusing on issues of morphology, syntax, and discourse context. Offered each fall semester.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 425. Variation in American English. 3 sem. hrs.
The study of the experience of the English language in America with particular emphasis on its development and dialects.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 429. Directed Readings. 3 sem. hrs.
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies.

EN 430. English Internship. 3-6 sem. hrs.
An on- or off-campus training position in which students use the skills they have gained as English majors and enhance their employment opportunities after graduation. Interns work approximately 10 hours a week, holding responsible positions with, among others, Alabama Heritage, Alabama Alumni Magazine, and the Tuscaloosa Public Defender's Office. Apply to the director of undergraduate studies in the Department of English. Please see the departmental website for the application form and further details.

EN 433. Advanced Studies British Lit. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in British literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 444. Adv Stdy Literary Crit/Theory. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues involving literary criticism and critical theory. Writing proficiency within this discipline is required for a passing grade in this course.

EN 455. Advanced Studies In Writing. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on the process of writing. The forms this writing may take include, but are not limited to, film, creative non-fiction, autobiography, and local color. May be repeated a maximum of 9 hours.

EN 456. Writing Center Theory and Research. 3 sem. hrs.
This course augments the professional practice of Writing Center staff with assigned readings, writing assignments, and discussions. Theory and research intensive.

EN 466. Advanced Studies In Linguistics. 3 sem. hrs.
Designed for English majors, a special topics course that focuses on issues in linguistics. A frequent topic is language and culture.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361.

EN 477. Adv Studies Literary Genres. 3 sem. hrs.
Designed for advanced English majors, a special topics course that focuses on issues in genre criticism. Writing proficiency within this discipline is required for a passing grade in this course.

EN 488. Adv Stdy African American Lit. 3 sem. hrs.
Designed for the advanced English major, a special topics course that focuses on issues in African American literature. Writing proficiency within this discipline is required for a passing grade in this course.

EN 499. Honors Thesis. 3 sem. hrs.
The Honors Thesis in English course is an individualized, directed readings class that culminates in a 30-50 pp. thesis. It is the final required course for the Honors in English program. Each student enrolled will work individually with a faculty mentor.
Prerequisite(s): EN 399.

English Language Institute (ELI) Courses

ELI 111. Reading/Writing, Level 1. 6 sem. hrs.
Level 1 of 6 levels - The Reading/Writing class is designed to provide students with the skills and practice to develop satisfactory reading and writing skills in English so that they will be able to function successfully in US university courses where extensive academic reading and essay writing are required. Students will develop proficiency in understanding what they read and in thinking, drafting, and revising their ideas by working through the writing process with input from their classmates and instructors.
Prerequisite(s) with concurrency: ELI 112.

ELI 112. Reading/Writing, Level 2. 6 sem. hrs.
Level 2 of 6 levels - The Reading/Writing class is designed to provide students with the skills and practice to develop satisfactory reading and writing skills in English so that they will be able to function successfully in US university courses where extensive academic reading and essay writing are required. Students will develop proficiency in understanding what they read and in thinking, drafting, and revising their ideas by working through the writing process with input from their classmates and instructors.
Prerequisite(s) with concurrency: ELI 113 and ELI 111.

ELI 113. Reading/Writing, Level 3. 6 sem. hrs.
Level 3 of 6 levels - The Reading/Writing class is designed to provide students with the skills and practice to develop satisfactory reading and writing skills in English so that they will be able to function successfully in US university courses where extensive academic reading and essay writing are required. Students will develop proficiency in understanding what they read and in thinking, drafting, and revising their ideas by working through the writing process with input from their classmates and instructors.
Prerequisite(s): ELI 111
Prerequisite(s) with concurrency: ELI 112 and ELI 114.

ELI 114. Reading/Writing, Level 4. 6 sem. hrs.
Level 4 of 6 levels - The Reading/Writing class is designed to provide students with the skills and practice to develop satisfactory reading and writing skills in English so that they will be able to function successfully in US university courses where extensive academic reading and essay writing are required. Students will develop proficiency in understanding what they read and in thinking, drafting, and revising their ideas by working through the writing process with input from their classmates and instructors.
Prerequisite(s): ELI 112
Prerequisite(s) with concurrency: ELI 113 and ELI 115.

ELI 115. Reading/Writing, Level 5. 6 sem. hrs.
Level 5 of 6 levels - The Reading/Writing class is designed to provide students with the skills and practice to develop satisfactory reading and writing skills in English so that they will be able to function successfully in US university courses where extensive academic reading and essay writing are required. Students will develop proficiency in understanding what they read and in thinking, drafting, and revising their ideas by working through the writing process with input from their classmates and instructors.
Prerequisite(s): ELI 113
Prerequisite(s) with concurrency: ELI 114 and ELI 116.

ELI 116. Reading/Writing, Level 6. 6 sem. hrs.
Level 6 of 6 levels - The Reading/Writing class is designed to provide students with the skills and practice to develop satisfactory reading and writing skills in English so that they will be able to function successfully in US university courses where extensive academic reading and essay writing are required. Students will develop proficiency in understanding what they read and in thinking, drafting, and revising their ideas by working through the writing process with input from their classmates and instructors.
Prerequisite(s): ELI 114
Prerequisite(s) with concurrency: ELI 115.

ELI 119. USP Academic Writing. 3 sem. hrs.
This course is designed to help undergraduate students improve the necessary writing skills for university-level work. Students will examine several different forms of writing and work on organization, content and grammar of their own writing. They will also spend time reading, summarizing and integrating outside sources into their work.

ELI 121. Speaking/Listening, Level 1. 3 sem. hrs.
Level 1 of 6 levels - The Speaking/Listening class is designed to provide opportunities for students to improve their speaking and listening skills in English and to gain confidence in using these skills. Students will learn and practice appropriate skills in conversation management, receive instruction regarding pronunciation, and learn new vocabulary. This will be done through a variety of classroom activities which focus both on academic situations as well as on everyday situations that students are likely to encounter as they adjust to life in the US.
Prerequisite(s) with concurrency: ELI 122.

ELI 122. Speaking/Listening, Level 2. 3 sem. hrs.
Level 2 of 6 levels - The Speaking/Listening class is designed to provide opportunities for students to improve their speaking and listening skills in English and to gain confidence in using these skills. Students will learn and practice appropriate skills in conversation management, receive instruction regarding pronunciation, and learn new vocabulary. This will be done through a variety of classroom activities which focus both on academic situations as well as on everyday situations that students are likely to encounter as they adjust to life in the US.
Prerequisite(s) with concurrency: ELI 123 and ELI 121.

ELI 123. Speaking/Listening, Level 3. 3 sem. hrs.
Level 3 of 6 levels - The Speaking/Listening class is designed to provide opportunities for students to improve their speaking and listening skills in English and to gain confidence in using these skills. Students will learn and practice appropriate skills in conversation management, receive instruction regarding pronunciation, and learn new vocabulary. This will be done through a variety of classroom activities which focus both on academic situations as well as on everyday situations that students are likely to encounter as they adjust to life in the US.
Prerequisite(s): ELI 121
Prerequisite(s) with concurrency: ELI 122 and ELI 124.

ELI 124. Speaking/Listening, Level 4. 3 sem. hrs.
Level 4 of 6 levels - The Speaking/Listening class is designed to provide opportunities for students to improve their speaking and listening skills in English and to gain confidence in using these skills. Students will learn and practice appropriate skills in conversation management, receive instruction regarding pronunciation, and learn new vocabulary. This will be done through a variety of classroom activities which focus both on academic situations as well as on everyday situations that students are likely to encounter as they adjust to life in the US.
Prerequisite(s): ELI 122
Prerequisite(s) with concurrency: ELI 123 and ELI 125.

ELI 125. Speaking/Listening, Level 5. 3 sem. hrs.
Level 5 of 6 levels - The Speaking/Listening class is designed to provide opportunities for students to improve their speaking and listening skills in English and to gain confidence in using these skills. Students will learn and practice appropriate skills in conversation management, receive instruction regarding pronunciation, and learn new vocabulary. This will be done through a variety of classroom activities which focus both on academic situations as well as on everyday situations that students are likely to encounter as they adjust to life in the US.
Prerequisite(s): ELI 123
Prerequisite(s) with concurrency: ELI 124 and ELI 126.

ELI 126. Speaking/Listening, Level 6. 3 sem. hrs.
Level 6 of 6 levels - The Speaking/Listening class is designed to provide opportunities for students to improve their speaking and listening skills in English and to gain confidence in using these skills. Students will learn and practice appropriate skills in conversation management, receive instruction regarding pronunciation, and learn new vocabulary. This will be done through a variety of classroom activities which focus both on academic situations as well as on everyday situations that students are likely to encounter as they adjust to life in the US.
Prerequisite(s): ELI 124
Prerequisite(s) with concurrency: ELI 125.

ELI 131. Structure, Level 1. 3 sem. hrs.
Level 1 of 6 levels - The Structure class is designed to provide students with the basic grammatical structures that they will need in order to communicate effectively in English. The emphasis of each class is on communication, both comprehension (listening and reading) and production (speaking and writing).
Prerequisite(s) with concurrency: ELI 132.

ELI 132. Structure, Level 2. 3 sem. hrs.
Level 2 of 6 levels - The Structure class is designed to provide students with the basic grammatical structures that they will need in order to communicate effectively in English. The emphasis of each class is on communication, both comprehension (listening and reading) and production (speaking and writing).
Prerequisite(s) with concurrency: ELI 131 and ELI 133.

ELI 133. Structure, Level 3. 3 sem. hrs.
Level 3 of 6 levels - The Structure class is designed to provide students with the basic grammatical structures that they will need in order to communicate effectively in English. The emphasis of each class is on communication, both comprehension (listening and reading) and production (speaking and writing).
Prerequisite(s): ELI 131
Prerequisite(s) with concurrency: ELI 132 and ELI 134.

ELI 134. Structure, Level 4. 3 sem. hrs.
Level 4 of 6 levels - The Structure class is designed to provide students with the basic grammatical structures that they will need in order to communicate effectively in English. The emphasis of each class is on communication, both comprehension (listening and reading) and production (speaking and writing).
Prerequisite(s): ELI 132
Prerequisite(s) with concurrency: ELI 133 and ELI 135.

ELI 135. Structure, Level 5. 3 sem. hrs.
Level 5 of 6 levels - The Structure class is designed to provide students with the basic grammatical structures that they will need in order to communicate effectively in English. The emphasis of each class is on communication, both comprehension (listening and reading) and production (speaking and writing).
Prerequisite(s): ELI 133
Prerequisite(s) with concurrency: ELI 134 and ELI 136.

ELI 136. Structure, Level 6. 3 sem. hrs.
Level 6 of 6 levels - The Structure class is designed to provide students with the basic grammatical structures that they will need in order to communicate effectively in English. The emphasis of each class is on communication, both comprehension (listening and reading) and production (speaking and writing).
Prerequisite(s): ELI 134
Prerequisite(s) with concurrency: ELI 135.

ELI 141. Oral Communications. 6 sem. hrs.
The Oral Communication class is designed for students who do not plan to study at an American university, or who are specifically interested in improving oral expression. The class focuses on practical rather than academic oral skills and on improving both the students' comprehension and comprehensibility.
Prerequisite(s): ELI 113 and ELI 123 and ELI 133
Prerequisite(s) with concurrency: ELI 114 and ELI 115 and ELI 134 and ELI 135 and ELI 136 and ELI 116 and ELI 124 and ELI 125 and ELI 126.

ELI 142. Intensive TOEFL Preparation. 3 sem. hrs.
The Intensive TOEFL Preparation class is designed for students who wish to focus their attention on preparation for the TOEFL (Test of English as a Foreign Language). The class will focus on the exam and types of questions asked as well as helpful strategies for taking the exam. Practice versions of the test will be administered during the course.
Prerequisite(s): ELI 113 and ELI 123 and ELI 133
Prerequisite(s) with concurrency: ELI 114 and ELI 115 and ELI 134 and ELI 135 and ELI 136 and ELI 116 and ELI 124 and ELI 125 and ELI 126.

ELI 143. Elective A. 6 sem. hrs.
Description dependent on exact class offering during a specific session.

ELI 144. Elective B. 3 sem. hrs.
Description dependent on exact class offering during a specific session.

ELI 145. Elective C. 3 sem. hrs.
Description dependent on exact class offering during a specific session.

ELI 151. TOEFL Preparation. 1.8 sem. hr.
The TOEFL Preparation optional class is designed to focus on either the iBT TOEFL (Test of English as a Foreign Language) or the Paper-Based TOEFL depending on students' needs. The class will (1) familiarize students with the exam and types of questions which occur, (2) teach helpful strategies for taking the exam, and (3) provide practice with the exam.

ELI 152. Pronunciation I. 1.2 sem. hr.
The Pronunciation I optional class will help students improve their pronunciation in English by providing feedback and instruction regarding various aspects of pronunciation, stress, and intonation, especially as these language features affect a student's comprehensibility in English. This class focuses on producing the basic sounds of English and English word stress.

ELI 153. Optional A-1. 1.2 sem. hr.
Description dependent on exact class offering during a specific session.

ELI 154. Optional A-2. 1.2 sem. hr.
Description dependent on exact class offering during a specific session.

ELI 155. Optional A-3. 1.2 sem. hr.
Description dependent on exact class offering during a specific session.

ELI 156. Optional B-1. 1.8 sem. hr.
Description dependent on exact class offering during a specific session.

ELI 157. Optional B-2. 1.8 sem. hr.
Description dependent on exact class offering during a specific session.

ELI 158. Optional B-3. 1.8 sem. hr.
Description dependent on exact class offering during a specific session.

ELI 159. Culturally Speaking. 1.2 sem. hr.
The Culturally Speaking class is designed to help students improve their command of everyday conversational English. Students have the opportunity to practice English with American students, learn more about U.S. culture, and get to know other UA students.

External Degree Program (EXD) Courses

EXD 100. Continuous Enrollment. 0 sem. hrs.

EXD 101. Foundatns Adult Learning. 3 sem. hrs.
Orientation to the EXD Program and introduction to the theories and principles of adult learning, learning styles, college degree planning, college writing, and selected issues relating to adult education. Mandatory for admission to the EXD Program.

EXD 200. Prior Learning Portfolio Devel. 0 sem. hrs.
Prior Learning Portfolio Dev.

EXD 205. Prior Learning Assessment. 0 sem. hrs.
Prior Learning Assessment.

EXD 300. Directed Study. 1-12 sem. hr.
Out-of-class learning contracts designed by students in selected topics. Advisor approval required.

EXD 320. Contract Learning. 1-15 sem. hr.

EXD 330. Contract Learning. 1-15 sem. hr.

EXD 335. Contract Learning. 1-15 sem. hr.

EXD 345. Contract Learning. 1-15 sem. hr.

EXD 350. Contract Learning. 1-15 sem. hr.

EXD 355. Contract Learning. 1-15 sem. hr.

EXD 360. Contract Learning. 1-15 sem. hr.

EXD 395. Seminar. 1-6 sem. hr.
Campus-based seminar on varying topics in natural sciences, humanities, social sciences, or other selected areas.

EXD 498. Senior Project. 1-12 sem. hr.
Student-designed major project or research in approved area. Required of all EXD students before graduation.

Farsi (FRS) Courses

FRS 101. Elementary Farsi I. 3 sem. hrs.
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

FRS 102. Elementary Farsi II. 3 sem. hrs.
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): FRS 101.

FRS 201. Intermediate Farsi I. 3 sem. hrs.
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without persmion of the CLC director.
Prerequisite(s): FRS 102.

FRS 202. Intermediate Farsi II. 3 sem. hrs.
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without persmion of the CLC director.
Prerequisite(s): FRS 201.

Finance (FI) Courses

FI 101. Financial Economics. 3 sem. hrs.
A lower division course that bridges the gap between secondary school curriculum requirements for personal finance and upper division core course FI 302 Business Finance.

FI 301. Intro Financl Instit Mkt. 3 sem. hrs.
Overview of the financial systems in which business operates, with emphasis on financial institutions, instruments, and markets.

FI 302. Business Finance. 3 sem. hrs.
Study of financial objectives of business enterprise, sources of capital, and financial management of business assets. Emphasis is on establishing a framework for making financing, investing, and dividend decisions.

FI 314. Intro To Investing. 3 sem. hrs.

FI 331. Principles of Real Estate. 3 sem. hrs.
Survey of various aspects of real estate business and economics, including marketing, finance, development, law, appraising, etc. FI 331 can be taken concurrently with FI 302.
Prerequisite(s): FI 302 or CE 366 or ME 203
Prerequisite(s) with concurrency: FI 302.

FI 334. Intro to Real Estate Property Management. 3 sem. hrs.
Provides an introduction to the principles of real property management and covers all aspects of the property management process. Students are shown how to maximize the asset value of income-producing real estate for investors/owners through the use of finance, marketing, and management techniques. FI 334 can be taken concurrently with FI 331.
Prerequisite(s): EC 110 and EC 111 and FI 331
Prerequisite(s) with concurrency: FI 331.

FI 341. Fundamentals of Risk Management & Insurance. 3 sem. hrs.
Introductory study of life insurance and "personal lines" of property insurance, especially homeowners insurance and auto insurance. Economic environment of insurance and how to read and evaluate insurance contracts. Examines different types of life insurance contracts as well as savings and investment alternatives and their uses in estate planning.
Prerequisite(s): EC 110 and EC 111.

FI 360. Personal Asset Mgt. 3 sem. hrs.
To teach students about financial assets as vehicles for saving for the future. Students will also learn how to invest in a combination of assets to meet their objectives and how their objectives may change over their life span.

FI 389. Computerized Mgt Info Systems. 3 sem. hrs.
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111; and FI 302 or CE 366 or IE 203.

FI 400. Financl Instit Markets Investm. 3 sem. hrs.
Builds on the foundation laid in the business core to extend the student's knowledge of basic finance into the areas of operation and management of financial institutions and financial markets and investments.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and AC 210 and FI 302.

FI 410. Intermediate Financial Mgt. 3 sem. hrs.
Development of advanced practices of financial management and their application to decision making in the business firm.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 411. Corporate Finance Policy. 3 sem. hrs.
An integrative course designed to give the student experience in problem solving in finance. Cases will be used to permit students to apply what they know to specific business problems.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366
Prerequisite(s) with concurrency: FI 410 and FI 410.

FI 412. Money & Capital Market. 3 sem. hrs.
An overall view of the financing process and the role of financial markets. Areas covered are characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 413. Working Capital Management. 3 sem. hrs.
FI 410 Students will develop the analytical expertise and the practical knowledge in the area of working capital management.
Prerequisite(s): FI 410.

FI 414. Investments. 3 sem. hrs.
Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366.

FI 415. Adv Investment Topics. 3 sem. hrs.
Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.
Prerequisite(s): FI 414.

FI 416. Monetary Theory & Policy. 3 sem. hrs.
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): FI 301.

FI 419. Financial Derivatives. 3 sem. hrs.
Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
Prerequisite(s) with concurrency: FI 302 and FI 414.

FI 421. Bank Administration. 3 sem. hrs.
Survey of analytical methods in banking, including study of the powers of various government agencies. Emphasis is placed on managerial aspects of commercial banking.
Prerequisite(s): FI 301 and FI 302 or IE 203 or CE 366.

FI 423. Public Finance. 3 sem. hrs.
Study of principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308.

FI 431. International Finance. 3 sem. hrs.
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430.

FI 432. Real Estate Appraisal. 3 sem. hrs.
Study of the sources of real estate value and techniques for estimating property value; study of effective use of appraisal information.
Prerequisite(s): FI 302 or CE 366 or IE 203.

FI 436. Real Estate Financing. 3 sem. hrs.
Study of the institutions of real estate finance and of factors affecting the flow of funds; investment analysis and procedures involved in real estate financing.
Prerequisite(s): FI 302 or CE 366 or IE 203.

FI 442. Business Risk Mgt. 3 sem. hrs.
Analysis of risks facing business and governmental entities. Various methods of both controlling the risks and financing the risks, including both insurance and non-insurance alternatives.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 443. Property Liability Insur. 3 sem. hrs.
Current financial, legal, and social problems concerning the property-liability insurance industry. Role of government in providing insurance and topics in the management of property-liability insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 444. Life & Health Insurance. 3 sem. hrs.
Detailed analysis of life insurance and health insurance with emphasis on their role in employee-benefit planning. Specific provisions of qualified retirement plans. Current problems facing the life insurance industry and analysis of the distribution system for life and health insurance. Topics in management of life and health insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366.

FI 460. Advanced Financial Planning. 3 sem. hrs.
The purpose of this course is to require the student to demonstrate the ability to integrate and apply his or her knowledge of financial planning topics as received through the curricula taught in the Wealth Management Concentration. Through this course, you will apply the financial planning process to real-life situations and to communicate your planning recommendations via both a written plan and an oral presentation.
Prerequisite(s): AC 371, FI 341, FI 360 and LGS 403
Prerequisite(s) with concurrency: FI 414 and FI 444.

FI 491. Independent Study. 1-6 sem. hr.
Students may earn degree credit for only one independent study course (491). Individually directed research and reading.
Prerequisite(s): EC 110 and EC 111.

FI 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111.

FI 497. Spec Topics In Finance. 1-3 sem. hr.
Prerequisite(s): EC 110 and EC 111.

Fine Arts (FA) Courses

FA 200. Introductn To Fine Arts. 3 sem. hrs.
An introduction to the fine arts, drawing especially on campus and community cultural events. This course is usually open to incoming freshmen.

Finnish (FIN) Courses

FIN 101. Elementary Finnish I. 3 sem. hrs.
Contemporary Finnish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

French (FR) Courses

FR 101. Elementary French I. 4 sem. hrs.
For students with no background or previous study of French. This course focuses on developing communicative abilities in French while emphasizing cultural practices and perspectives. Not open to students who have completed 2 or more years of high school French. Offered each semester.

FR 102. Elementary French II. 4 sem. hrs.
Continuation of FR 101. This course focuses on further enhancing communicative abilities, cultural practices and perspectives in French. Offered each semester.

FR 103. French 1st Year Review. 4 sem. hrs.
Five hours of instruction per week. Intensive review and accelerated study of French at the first- and second-semester college level.

FR 201. Intermediate French. 3 sem. hrs.
Course goals include improvement of reading and writing proficiency, listening comprehension, and speaking skills. Offered each semester.
Prerequisite(s): FR 102 OR FR 103.

FR 202. Intermediate French. 3 sem. hrs.
Continuation of FR 201. Preparation for advanced literature, linguistics, and culture courses.
Prerequisite(s): FR 201.

FR 205. Living In French House. 1-2 sem. hr.
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 206, or 321, or 322, or 323, or 324, or 328, or 329.

FR 206. Living In French House. 1-2 sem. hr.
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 205, or 321, or 322, or 323, or 324, or 328, or 329.

FR 321. Voices In French. 3 sem. hrs.
Introduction to literary and cultural analysis through selected works of French cultural expression. Emphasis on expanding vocabulary and improving grammar in order to develop speaking, reading, and writing proficiency beyond the second year. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the fall semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202.

FR 322. Advanced French Grammar. 3 sem. hrs.
Review of French grammar with emphasis on written exercises. Study abroad equivalent: FR 329. Offered each semester.
Prerequisite(s): FR 202.

FR 323. Text, Image, And Word. 3 sem. hrs.
Contemporary French and Francophone society and culture. Continued work in literary and cultural analysis through selected works of recent cultural media (journalism, literature, music, film). Emphasis on written exposition, oral proficiency, critical thinking, grammar review. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the spring semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202.

FR 324. Commercial French. 3 sem. hrs.
French business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): FR 202.

FR 328. French Conversation-Abroad. 3 sem. hrs.
Contemporary French society and culture. Direct on-site cultural exposure. Analysis of recent cultural media (e.g., journalism, literature, song, film) in context. Emphasis is on written exposition, oral proficiency, grammar review, and critical appraisal in relation to an immersion experience in French culture. Offered in France. For purposes of satisfying the requirements of the French major or minor, this course can be used in lieu of either FR 321 or FR 323.

FR 329. Adv Fr Grammar-Abroad. 3 sem. hrs.

FR 331. French Civilization. 3 sem. hrs.
The course is also taught abroad as FR 339. Study of French artistic heritage and development of social and political institutions. Offered alternate spring semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 339. French Civilizatn-Abroad. 3 sem. hrs.

FR 341. Survey Fr Literature I. 3 sem. hrs.
French literature from its origins through the 18th century. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 351. Survey Fr Literature II. 3 sem. hrs.
French literature of the 19th and 20th centuries. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323.

FR 361. Intro Romance Linguistic (Same as IT 361 and SP 361). 3 sem. hrs.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

FR 380. Special Topics. 1-3 sem. hr.
Directed reading, research, or French Immersion Retreat. Also offered within the curriculum for the Alabama-in-France summer program. Topic to be determined in consultation with the instructor or program director.

FR 421. Pronunciation & Phonetics. 3 sem. hrs.
Introduction to phonetic theory and corrective phonetics through auditory discrimination exercises and contrastive analysis; emphasis on mastery of oral skills. Offered each semester.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 431. Contemp French Civiliztn. 3 sem. hrs.
Exploration of the political, technological, and cultural movements of France from 1871 to the present. Offered alternate spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323.

FR 461. French Linguistics. 3 sem. hrs.
Linguistic theory applied in the analysis and description of French phonological, morphological, syntactic, and semantic structures. Offered alternate years.
Prerequisite(s): FR 321 or FR 322 or FR 323.

FR 470. Undergrad Sem In French. 3 sem. hrs.
Intensive examination of a selected topic, with emphasis on student research and presentations. A representative sample of topics would include: Francophone Africa, The 19-Century French Novel, French-English Translation, and Poetry of the French Renaissance. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323.

FR 480. Special Topics. 3 sem. hrs.
Directed reading or research related to French and Francophone language, literature and culture. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323.

FR 484. Adv Converstn Phonetics. 3 sem. hrs.
Emphasis is on improvement of oral expression in a variety of contexts. Consideration of phonetics as it serves this goal.
Prerequisite(s): FR 321 or FR 322 or FR 323.

Freshman Learning Community (FLC) Courses

FLC 101. Freshman Learn Comm Seminar. 1,2 sem. hr.
This course accompanies freshman learning communities and offers expanded opportunities for collaborative and integrated learning related to the communities.

General Business Administration (GBA) Courses

GBA 145. Freshman Compass: CBA. 1 sem. hr.
An introduction to the Culverhouse College of Commerce and Business Administration. Topics include adjustment to college life, study skills, career exploration, and majors offered in the College.

GBA 171. STEM Business Honors I. 1.5 sem. hr.
This course introduces STEM students to critical and innovative thinking as it pertains to the issues of today's business environment, while providing a modest introduction to basic economics and the global marketplace. The course begins to introduce business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to develop an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opporunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA.

GBA 172. STEM Business Honors II. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the iussues of today's business environment, while providing a modest introduction to business ethics, business ownership structures, and entrepreneurship. The course continues to develop business model design as a tool to better understand how to operate. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171.

GBA 271. STEM Business Honors III. 1.5 sem. hr.
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to management roles, teamwork, and productive systems. The course continues to develop business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to work in teams, with a goal of developing skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172.

GBA 272. STEM Business Honors IV. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to employee motivation, human resources management, and labor relations. The course continues to develop business model design as a tool to better understand how businesses operate, while introducing human centered design for designing business processes and products. In addition, the course will provide appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271.

GBA 300. Business Communications. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111 and LGS 200 and AC 210 or AC 201 and AC 202; and MATH 112 or MATH 115 or MATH 121 or MATH 125; and ST 260 or ST 250 and ST 251.

GBA 310. Introduction Corporate America. 3 sem. hrs.

GBA 334. Introduction to Fraud Risk Management. 3 sem. hrs.
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, dectection, and follow-up.
Prerequisite(s): AC 210.

GBA 371. STEM Business Honors V. 1.5 sem. hr.
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to marketing, product and pricing issues, distribution and logistics, and customer communication. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for designing business processes and products. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272.

GBA 372. STEM Business Honors VI. 1.5 sem. hr.
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to financial information and accounting concepts, financial management, financial markets & investment strategies and the money supply and banking systems. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272, GBA 371.

GBA 481. Business Honors Seminar I. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 482. Business Honors Seminar II. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 483. Business Honors Seminar III. 0.5-1.5 sem. hrs.
This courses is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 484. Business Honors Seminar IV. 0.5-1.5 sem. hrs.
This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 490. Strategic Management. 3 sem. hrs.
Examination of the managerial tasks of crafting and implementing strategic plans and the tools of strategic analysis. Students gain hands-on experience with tools and concepts of strategic management by participating in a business strategy simulation exercise and by analyzing actual companies.
Prerequisite(s): AC 210 and EC 110 and EC 111 and LGS 200 and ST 260 AND MATH 121 OR MATH 125
Prerequisite(s) with concurrency: MGT 300 and MKT 300 and OM 300 and FI 302 and GBA 300.

GBA 491. Independent Study. 3 sem. hrs.
Independent study in library or primary research. Not open to graduate students.

General Engineering Studies (ENGR) Courses

ENGR 103. Engineering Foundations. 3 sem. hrs.
Introductory course for students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, sketching, teaming, oral and written technical communication, and the design process.
Prerequisite(s): [(MATH 112 AND MATH 113) OR MATH 115)]OR MATH 125 or higher with concurrency
Prerequisite(s) with concurrency: MATH 125 or MATH 126 or MATH 145 or MATH 146.

ENGR 111. Engineering for the Future. 1 sem. hr.
An introduction to the discipline of engineering and what the future of the field will involve. Focus is on developing and understanding of the discipline, the contributions that the discipline will make to society in the future and career opportunities for students in the field.
Prerequisite(s): PLMA 310 OR Higher, PLAC 467 OR Higher, ACT 2 24 OR Higher, SAT 2 560 OR Higher OR Passed MATH 110 with C- or higher.
Prerequisite(s) with concurrency: MATH 112 and MATH 113 and MATH 115 and MATH 125 and MATH 126 and MATH 145 and MATH 146.

ENGR 131. Eng. Concepts & Design I. 1 sem. hr.
Introductory course for students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, teaming and the design process.
Prerequisite(s): (MATH 112 and MATH 113)OR MATH 115 OR PLMA 440 or higher OR PLAC 565 or higher OR ACT 2 30 or higher OR SAT 2 680 or higher.
Prerequisite(s) with concurrency: MATH 125 and MATH 126 and MATH 145 and MATH 146.

ENGR 141. Eng. Concepts & Design II. 1 sem. hr.
A second course for students that reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming and technical communication.
Prerequisite(s): ENGR 131.

ENGR 142. Accel. Eng. Concepts/Design. 1 sem. hr.
An accelerated course for students in all engineering disciplines that is open to students with AP Physics credit or initial placement into Calculus II or higher. With the completion of ENGR 142 with a grade of "C-" or higher, placement credit is also awarded for ENGR 131. The course reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming, and technical communication.
Prerequisite(s): AP Physics credit OR MATH 125.

ENGR 151. Fundamental Eng. Graphics. 1 sem. hr.
Focus is on the ability to use sketching as an effective communication tool within the field of engineering.
Prerequisite(s): MATH 112
Prerequisite(s) with concurrency: MATH 113 and MATH 115 and MATH 121 and MATH 125 and MATH 126 and MATH 145 and MATH 146.

ENGR 161. Small-Scale Eng. Graphics. 1 sem. hr.
Two-dimensional representations of multiviews, sections, and auxiliaries will be generated.
Prerequisite(s): ENGR 151.

ENGR 171. Large-Scale Eng. Graphics. 1 sem. hr.
Use of a commercial software package to produce engineering drawings such as multiviews, sections and auxillaries, isometric and oblique pictorials, dimensional drawings as well as simple topographical and property drawings, with an emphasis on large-scale applications.
Prerequisite(s): ENGR 151.

ENGR 191. Freshman Engineering Special Topics. 1-3 sem. hr.
To enrich UA's undergraduate education in the area of nanotechnology. The course is a low level freshman course that will cover simple introductory material on nanotechnology and its concepts, its environmental, economical, ethical and societal impacts on it. It consists of 7 modeuls: Introduction to nanotechnology & biotechnology, engineering applications of nanotechnology and biomedicine, seeing is believing and micro/nanofabrications, economics of nanotechnolgy and biotechnology, philosophy, ethics, science and engineering; nanotechnology, biotechnology and society; nanotechnology, biotechnology and environment.
Prerequisite(s): None.

General Engineering Studies (GES) Courses

GES 100. Intro Engr Pre-Calculus. 1 sem. hr.
MATH100 or MATH112 Overview of engineering as a career and basic skills relevant for student success in college and engineering.
Prerequisite(s) with concurrency: MATH 005 or MATH 100 or MATH 112.

GES 126. Intro Engineer Computng. 3 sem. hrs.

GES 131. Foundatns Engineering I. 2 sem. hrs.
Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126.

GES 132. Foundatns Engineering II. 2 sem. hrs.
Introduction to computer problem solving and algorithm development using MatLab. Includes matrix operations, systems of linear equations, curve fitting, root finding, Taylor series and numerical integration.
Prerequisite(s): MATH 125 or MATH 126 or MATH 145 or MATH 146.

GES 145. Honors Foundtns Engineering I. 2 sem. hrs.
Placement in Math115 or higher and admission to UA Honors or Computer-Based Honors programs. Honors Foundations of Engineering (GES 131)
Prerequisite(s): MATH 112.

GES 146. Honors Foundations Of Engr II. 2 sem. hrs.
Introduction to computer problem solving and algorithm development using MatLab. Includes matrix operations, systems of linear equations, curve fitting, root finding, Taylor series and numerical integration. Honors component will incorporate independent study projects designed to expand and broaden student's knowledge base of programming applications in engineering.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

GES 225. Impacts of Mjr Engr Accomplish. 3 sem. hrs.
Survey of major works of engineering, how they advanced the state of knowledge, the social issues of their time and the impact they have had on culture and society.

GES 255. Engineering Statistics I. 3 sem. hrs.
Probability and basic statistical concepts, random variables, discrete and continuous distributions, sampling distributions, inferences concerning means, simple regression, and correlation. Experiments demonstrating probabilistic and statistical concepts are conducted.
Prerequisite(s) with concurrency: MATH 126 and MATH 146.

GES 295. British Industrial Revolution. 3 sem. hrs.
This course is designed to introduce students to the history surrounding the Industrial Revolution, with emphasis on west midlands of Great Britain. This area was important for iron making, ceramics, pottery and other large-scale industries. The material and processes involved with be covered as well as the societal and environmental impact of the Industrial Revolution. Modern day industrial Britain will also be surveyed.

GES 400. Engineering Statistics. 3 sem. hrs.
Not open to students with credit for GES 255. Not available for MSIE degree credit. Probability and basic statistical concepts, discrete and continuous distributions, the central limit theorem, sampling distributions, point and interval estimation, hypothesis testing, regression and correlation analysis, and analysis of variance.
Prerequisite(s): MATH 126 or MATH 146.

GES 401. Operations Research. 3 sem. hrs.
Not open to students with credit for IE 363. Not available for MSIE degree credit. Model construction, linear programming, network models, dynamic models, stochastic models, queuing theory and decision theory.
Prerequisite(s): MATH 126
Prerequisite(s) with concurrency: GES 255 or GES 400 or GES 500.

GES 410. London/Dublin Internship. 3 sem. hrs.
Student will enroll in 7 weeks of internship to work in the engineering profession as part of the study abroad program.

GES 473. Engineering Service Learning. 1-3 sem. hr.

GES 491. Special Topics. 1-3 sem. hr.
Research course designed to meet the needs of individual students.

General Health Studies (HHE) Courses

HHE 270. Personal Health. 3 sem. hrs.
A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE 273. Community And Public Health. 3 sem. hrs.
Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE 370. Prin/Foundatn Health Promotion. 3 sem. hrs.
The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.
Prerequisite(s): HHE 273.

HHE 378. Drug Awareness Education. 3 sem. hrs.
Introduction to topics associated with drug-taking behavior, emphasizing drug education. Physiological, psychological, and sociological aspects of drug-taking behavior are examined. Writing proficiency within this discipline is required for a passing grade in this course.

HHE 440. Understanding Stress Mgt. 3 sem. hrs.
An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE 445. Environmental Health. 3 sem. hrs.
The course is designed to promote the acquisition of environmental health knowledge and skills for application in community/public health education settings. Course content will address environmental factors that affect human and ecological health and environmental health education and promotion strategies.

HHE 446. Health Disparities. 3 sem. hrs.
This course is designed to explore health disparities in the United States and throughout the world. Course content will address societal factors that have an impact on health disparities. The course focus will also address cultural competency and appropriate health education and promotion strategies.

HHE 467. Design Eval Health Promo. 3 sem. hrs.
Designed to help health educators develop competencies in program design, implementation, and evaluation.
Prerequisite(s): HHE 370.

HHE 468. Pract Appl Health Comm & Promo. 3 sem. hrs.
A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.
Prerequisite(s): HHE 370.

HHE 480. Culminating Experience in Health Education and Promotion. 3 sem. hrs.
The purpose of this course is to provide students with an opportunity to apply health education and promotion competencies developed through their undergraduate course experiences. The course will include observations, application, and reflection of professional practice in a community/public health education program.
Prerequisite(s): HHE 370 and HHE 467 and HHE 468.

HHE 488. Internship Communty Hlth. 1-12 sem. hr.
Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.

HHE 496. Independent Study. 1-6 sem. hr.
Designed to provide the opportunity for independent work in any area of health education/health promotion.

General Studies (GS) Courses

GS 111. Academic Skills. 1-3 sem. hr.
A one-, two-, or three-part course in academic skills for students eligible for the Student Support Services Program. Enrollment in each of the components is based on a diagnosed need. Offered in the fall and spring semesters.

GS 391. Exceptional Studies. 1-6 sem. hr.
Independent study and/or research on an approved topic, under the direction of a College of Arts and Sciences faculty member. The subject matter, methodology, goals, and objectives of the study are intended to be unique.

GS 491. Academic Internship. 1-3 sem. hr.
Students work with a faculty member on a planned and supervised activity related to the instructional, research, or service functions of the College of Arts and Sciences.

Geography (GY) Courses

GY 101. Atmospheric Proc & Patterns. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

GY 102. Earth Surface Processes. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

GY 105. World Regional Geography. 3 sem. hrs.
Introduction to geography through a survey of the world's major geographic regions. Examines their physical and cultural features, economies, and populations.

GY 110. Prin Human Geography. 3 sem. hrs.
Introduction to geography as a science for learning the fundamentals of human behavior and decision making. Examines how human events, natural resources, economies, development, and urbanization impact the way humankind lives, organizes its space, and makes decisions for the future.

GY 155. Freshman Seminar. 3 sem. hrs.
Analysis of selected contemporary global issues and forces that shape our local communities and the world in which we live, including population, natural resources, agriculture, environmental change, and terrorism.

GY 200. Principles Of Planning. 3 sem. hrs.
Survey of the basic elements of regional and urban planning. Provides a comprehensive overview of the planning profession.

GY 204. Map & Air Photo Interpretation. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Fundamentals of map reading and interpretation.

GY 317. Natural Hazards. 3 sem. hrs.
Examination of the causes, consequences, and spatial distribution of climatic, geomorphic, and human-induced natural hazards.
Prerequisite(s): GY 101 or GY 102.

GY 330. Computr Mapping Graphics. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduction to computer graphics and their application in both the natural and social sciences, with special emphasis on mapping. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 339. Natural Resource Envirmn Plang. 3 sem. hrs.
Analyzes human interactions with the physical environment and ways of dealing with them. Integrates environmental science, social science, and planning, and includes environmental impact assessment.

GY 341. Geography Of Us And Canada. 3 sem. hrs.
Study of the physical and human geography of the United States and Canada.

GY 344. Geography Of Africa. 3 sem. hrs.
Study of the physical and human geography of Africa.

GY 346. Geography of Europe. 3 sem. hrs.
This course is designed to provide a regional survey of Europe in terms of economic activities and the physcial environment. Special emaphasis is on the historical development of European landscapes.

GY 351. Geography Of Alabama. 3 sem. hrs.
Study of the varied geographical dimensions of the state of Alabama, both past and present.

GY 358. Urban Geography. 3 sem. hrs.
Examines the growth of cities, their spatial distributions, internal dynamics, functional bases, and social and political patterns.
Prerequisite(s): GY 110.

GY 363. Geomorphology. 3 sem. hrs.
Study of physical, chemical and biological processes operating at the Earth's surface and landforms, and the landscapes such processes develop.
Prerequisite(s): GY 102 or GEO 101.

GY 365. Industrial Develop & Location. 3 sem. hrs.
Systematic study of the principles and processes underlying the development, location, and spatial organization of economic activities from both a national and international perspective. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): GY 110.

GY 370. Special Topics. 3 sem. hrs.

GY 377. Cultural Geography. 3 sem. hrs.
Study of the way in which culture influences elements of both physical and human landscapes with emphasis on how cultures are spread over space and how cultures make sense of space.
Prerequisite(s): GY 105 or GY 110.

GY 402. Climatology. 3 sem. hrs.
Introduce the fundamentals of the earth-atmosphere system as they comprise the climate of Earth, drive spatral and temporal climate variability, and impact human life.
Prerequisite(s): GY 101.

GY 404. Physical Geography Seast Us. 3 sem. hrs.
A study of the physical landscapes in the southeastern United States. Emphasis is on the geological setting, geomorphic features, climate, soils, and vegetation, and the interrelationships of these conditions that shape the landscape in this region.
Prerequisite(s): GY 101 and GY 102; or GEO 101.

GY 405. Dir Res Physical Geog. 1-3 sem. hr.
Hands-on, problem solving in the field of physical geography.

GY 406. Dir Res Human Geography. 1-3 sem. hr.
Hands-on, problem solving in the field of human geography.

GY 407. Boundary Layer Climates. 3 sem. hrs.
Introduce the nature of the atmosphere near the ground and the interactions these processes have with the physical, biological, and human systems on Earth.
Prerequisite(s): GY 402.

GY 409. Forest History and Restoration. 4 sem. hrs.
This course covers the theories, tools and techniques used in historical ecology with a focus on the establishment of reference conditions for habitat conservation and restoration efforts.
Prerequisite(s): GY 101 or GY 102.

GY 412. Hydroclimatology. 3 sem. hrs.
To provide a basic understanding of the waters of Earth, especially with relation to the effects of precipitation and evaporation upon the occurence and character of water in streams, lakes and on or below the land surface
Prerequisite(s): GY 101 and GY 402.

GY 413. Applied Climatology. 3 sem. hrs.
Applied Climatology is a senior level course designed to expand upon fundamental concepts learned in GY 101 and also GY 402 (Climatology). Within this broad field, a specific focus in GY 413 concentrates upon climate and human health/behavior. The course contains a mixture of lecture, lab, and field assignments.
Prerequisite(s): GY 101.

GY 420. Remote Sensing I. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduction to the basic principles of electromagnetic radiation, interaction between energy and earth features, remote sensing instruments, and information extraction from remotely sensed data. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 424. Cartography Practicum. 3-9 sem. hrs.
Individual work experience in cartography, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 424 cannot be applied to the geography minor.

GY 425. Cartography Internship. 3-9 sem. hrs.
Individual work experience on a cartographic project, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 425 cannot be applied to the geography minor.

GY 430. Intro Geographic Info Systems. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Introduces the basic concepts of GIS, including definition and components of GIS, spatial data structures, data sources, data input, manipulation and analysis, applications of GIS, and managing GIS. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102.

GY 431. GIS in Emergency Management. 4 sem. hrs.
Addresses geo-spatial data, methods, and software used in mitigation, planning, response, and recovery phases of emergency management. Case studies and scenarios are drawn from meteorological, environmental, geological, and biological hazards and disasters.
Prerequisite(s): GY 430.

GY 432. Spec Research In Geog. 1-4 sem. hr.

GY 433. Gis Practicum. 3-9 sem. hrs.
Individual work experience in GIS, supervised by the faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 433 cannot be applied to the geography minor.

GY 434. Gis Internship. 3-9 sem. hrs.
Individual work experience in GIS, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 434 cannot be applied to the geography minor.

GY 435. Remote Sensing II. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Analysis and extraction of thematic information from nonphotographic remotely sensed data for geographic information systems. Topics include image processing, image enhancement, and image classification. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 420.

GY 436. Adv Geographic Info Syst. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. Evaluation of case studies, spatial model development, and database design for geographic information systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 430.

GY 438. Application Issues In Gis. 4 sem. hrs.
Three hours lecture and one two-hour laboratory period. In-depth study of various topics in the application and technical issues of geographic information systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): GY 430.

GY 440. Commun Facil Planning. 3 sem. hrs.
Principles, processes, and analysis of public facility location planning, with emphasis on the spatial search process, impact analysis, and public facility location models.

GY 441. Land Use Regulations. 3 sem. hrs.
Theory and use of zoning, eminent domain, taxing and police powers, enabling acts, charters, official maps, codes, nuisance ordinances, and environmental impact statements in community planning.
Prerequisite(s): GY 200.

GY 442. GIS in Biogeography. 4 sem. hrs.
Addresses the application of GIS data and methods in analyzing geographic distribution and trends of plants and animals. Labs draw data and methods from a variety of biogeographic contexts including historical, modern, terrestrial, marine, conservation, and climate change.
Prerequisite(s): GY 430.

GY 444. Field Studies In Africa. 6 sem. hrs.
Three-week intensive field study in Ghana. Explores geographical perspectives on Africa's level of development and the responses of the African peoples to their circumstances.

GY 452. Environ Decision Making. 3 sem. hrs.
Review of the history of natural resources in the U.S. and current environmental topics, followed by discussion of techniques to facilitate environmental decision making and management.

GY 453. Environment & Society. 3 sem. hrs.
Exploration of the linkages between the biophysical environment and human social systems. Public policy implications are viewed from a social science perspective. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): GY 110.

GY 455. Planning Practicum. 3-9 sem. hrs.
Individual work experience in planning, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 455 cannot be applied to the geography minor.

GY 456. Planning Internship. 3-9 sem. hrs.
Individual work experience in planning, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 456 cannot be applied to the geography minor.

GY 458. Urban Planning And Analysis. 3 sem. hrs.
A study of contemporary urban landscapes, political and economic power structures, and resultant conflicts. Includes an in-depth analysis of the role of externalities, the urban planner, urban policymaking, and analytical methods in the planning and administration of urban landscapes.

GY 460. Environmental Management. 3 sem. hrs.
Introduces students to the impact of humans on the planet and the patterns of human behavior necessary to preserve and manage the environment in a self-sustaining manner. Emphasis is on writing and speaking.
Prerequisite(s): GY 101.

GY 461. Social Impact Assessment. 3 sem. hrs.
This course focuses on the theories, philosophies, and methodologies of assessing the social consequences of environmental change.
Prerequisite(s): GY 101 and SOC 101.

GY 465. Region Planning Analysis. 3 sem. hrs.
Principles and processes of regional planning and the analytical methods appropriate for solving regional planning problems. Case studies and the role of the planner in the regional planning process are discussed.

GY 466. Region Urban Transport Systems. 4 sem. hrs.
Examines the location and function of the multimodal North American transportation system, the urban transportation planning process and methodologies. Assesses the political and environmental contexts of transport systems, including impacts of continued reliance on the automobile.

GY 470. Special Topics. 3 sem. hrs.

GY 472. Soil Science. 4 sem. hrs.
Three hours lecture and required field and lab work. Introduction to the study of soils, including soil formation, classification, and the interpretation of soils to reconstruct environmental histories.

GY 483. Environment Science Internship. 3-9 sem. hrs.
Individual work experience in environmental science, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 483 cannot be applied to the geography minor.

GY 486. Watershed Dynamics. 3 sem. hrs.
An examination of the physical operation of watersheds focusing on surface water hydrology, erosion, and sedimentation.
Prerequisite(s): GY 102.

GY 488. Planning & Government. 3 sem. hrs.
Examines the planning process within the context of local government.
Prerequisite(s): GY 200.

GY 489. Forest Ecology Veg Analy. 4 sem. hrs.
Three hours lecture and required field work. Study of the nature of forest communities and the interrelationship of organisms that compose them.

GY 490. Geography Internship. 3-9 sem. hrs.
Work experience in an agency involved in geographical analysis. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 490 cannot be applied to the geography minor.

GY 492. Eastern Forest Communities. 4 sem. hrs.
This course is focused on the biotic and abiotic elements that create distinct forest communities throughout the Central Hardwood and Southern Mixed Forest Regions of the eastern UA. The class includes lecture, lab, and field formats.
Prerequisite(s): GY 101 or GY 102 or BSC 114.

GY 493. Plant Geography. 4 sem. hrs.
This course covers basic biotic and abiotic terrestrial ecosystem components, environmental gradients, plant distribution patterns, dispersal, colonization, and migration, disturbance processes, and applications to biodiversity conservation.
Prerequisite(s): GY 101 or GY 102 or BSC 114.

GY 494. Forest Measurement and Analysis. 4 sem. hrs.
Prerequisite(s): GY 489 or BSC 385.

Geological Sciences (GEO) Courses

GEO 101. The Dynamic Earth. 4 sem. hrs.
'Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.

GEO 102. The Earth Through Time. 4 sem. hrs.
Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.

GEO 104. Hazardous Earth. 4 sem. hrs.
This natural science course examines geologic and other Earth hazards that impact humans and ways that human activities often increase these hazards. The course consists of lecture and lab, and includes field trips and videos that illustrate various natural hazards.

GEO 105. Sustainable Earth. 4 sem. hrs.
Three lectures and one laboratory. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment. Includes discussion of water pollution, air pollution and waste disposal as primary issues related to resource utilization.

GEO 210. Mineralogy. 4 sem. hrs.
Two lectures and two laboratories. Introduction to crystallography, crystal chemistry, rock-forming minerals, physical properties of minerals, hand sample mineral identification, and optical mineralogy. Offered in the fall semester.
Prerequisite(s): CH 101 and GEO 101.

GEO 306. Hydrogeology. 3 sem. hrs.
Introduction to the principles of groundwater flow, groundwater exploration, water quality, and groundwater contamination; environmental topics in groundwater. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 314. Ign. & Meta. Petrology. 4 sem. hrs.
Three lectures and one laboratory. Megascopic and microscopic study of igneous and metamorphic rocks, with emphasis on identification, classification, genesis, and relationships to tectonism. Offered in the spring semester.
Prerequisite(s): GEO 210.

GEO 355. Invertebrate Paleontology. 3 sem. hrs.
Two lectures and one laboratory. Study of the taxonomy and morphology of major invertebrate fossil groups. Offered in the spring semester.
Prerequisite(s): GEO 101 and GEO 102.

GEO 363. Geomorphology. 3 sem. hrs.
Two lectures and one laboratory. Study of landforms with emphasis on the basic geomorphic processes that contribute to their origin. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 365. Structural Geology. 3 sem. hrs.
Two lectures and one laboratory. An introductory study of the deformation of rocks, including mechanical principles, description and identification of folds and faults, map interpretation, and regional tectonics. Offered in the fall semester.
Prerequisite(s): GEO 101 and PH 101.

GEO 367. Sedimentology/Stratigraphy. 4 sem. hrs.
Three lectures and one laboratory. Study of the principles involved in the description and classification of sedimentary rocks and stratigraphic units, with emphasis on sedimentary processes and depositional environments. Offered in the spring semester.
Prerequisite(s): GEO 102 and GEO 210.

GEO 369. Introduction Geophysics. 3 sem. hrs.
Introduction to the major fields of exploration geophysics such as seismology, isostasy, heat flow, gravity and magnetic prospecting, and electrical methods. The course includes both principles and applications to petroleum, mining, and environmental problems. Offered in the fall semester.
Prerequisite(s): MATH 125 and PH 101 and GEO 101.

GEO 399. Undergraduate Research. 1-6 sem. hr.
A maximum of 4 hours can be applied toward the major in geology. Approval of the department chairperson is required prior to registration. Offered according to demand.

GEO 401. Paleoclimatology. 3 sem. hrs.
Survey of the history of global climate change and the methods used to measure paleoclimate in the geological record. Offered in the Spring semester.
Prerequisite(s): GEO 101 or GEO 102.

GEO 404. Quatenary Climate and Envrmnt. 3 sem. hrs.
Outline of the climatological and environmental history of the past two million years, focusing on causes and impact of glacial and shorter oscillations. Offered according to demand.
Prerequisite(s): GEO 401.

GEO 407. Seismology. 3 sem. hrs.
This course provides an overview of earthquake seismology for both upper-level and graduate geo-science students. Topics include elastic wave propagation, seismic ray theory, travel time interpretations, surface wave dispersion, and seismic tomography.
Prerequisite(s): MATH 126.

GEO 410. Soil & Groundwater Restoration. 3 sem. hrs.
Methods for restoring contaminated soil groundwater by examining the factors and processes influencing the efficacy of remediation systems. Emphasis placed on the scientific principles upon which soil and groundwater remediation is based.
Prerequisite(s): GEO 101 and CH 101 or CH 117 and CH 102 or 118.

GEO 416. Volcanology. 3 sem. hrs.
Study of the physical properties of magmas, eruptive mechanisms, volcanic products, and the relationship between volcanism and tectonism. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): GEO 101.

GEO 420. Petroleum Geology. 3 sem. hrs.
Introduction to the origin, migration, accumulation, and entrapment of petroleum. Emphasis is on sedimentary, geochemical, and hydrodynamic processes. Offered in the spring semester of even-numbered years.
Prerequisite(s): GEO 365 and GEO 367.

GEO 421. Geology & History of W Turkey. 3 sem. hrs.
This two week long course will emphasize environmental geology history, geoarchaeology, and natural hazards of the Greco-Roman city states in Western Anatolia. It will concentrate on the effects of geology and natural hazards in the decline and eventual fall of these large city states and cultural centers.

GEO 424. Topics In Geology. 1-4 sem. hr.
Special topics in the following areas: economic geology, geochemistry, geophysics, geomorphology, hydrogeology, mineralogy, paleontology, petrology, sedimentology, stratigraphy, structural geology, and tectonics. Offered according to demand.

GEO 430. Ore Deposits. 3 sem. hrs.
Introduction to sedimentary hydrothermal, metasomatic, and magnetic ore deposits, including geologic setting and genesis. Offered on demand.
Prerequisite(s): GEO 210.

GEO 435. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the fall semester.

GEO 436. Honors Sem In Geology. 1 sem. hr.
Oral presentations on current geological topics. Offered in the spring semester.

GEO 445. Multich. Seismic Proc. 4 sem. hrs.
Introduction to multichannel seismic data acquisition, processing, and interpretation. Includes the theory of wave propagation, time series analysis, and filtering. Lab is problem-based using real-world data and examples. Offered according to demand.
Prerequisite(s): MATH 125 and PH 102.

GEO 446. Scientific Computing. 3 sem. hrs.
This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages. Offered according to demand.

GEO 470. General Geochemistry. 3 sem. hrs.
Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered in the Spring semester.
Prerequisite(s): GEO 314.

GEO 476. Analytical Geochemistry. 3 sem. hrs.
Theory, techniques, and applications of geochemical methods for the analysis of rocks, soils, and aqueous fluids. Offered according to demand.

GEO 490. Seminar Regional Geology. 1-3 sem. hr.
Seminar on and field trip to important geologic localities. May be repeated for credit. Offered according to demand.

GEO 492. Geologc Field Writg Tech. 2 sem. hrs.
Introduction to the methods of field geology, geology of the southeastern U.S., geological writing, and presentation techniques. Offered according to demand.
Prerequisite(s): GEO 367.

GEO 495. Field Geology. 6 sem. hrs.
Five-week field course involving the application of geologic techniques and principles. Includes geologic mapping, data collection, and report writing. Offered during the first summer term.
Prerequisite(s): GEO 314 and GEO 365 and GEO 367.

GEO 497. Geological Internships. 3 sem. hrs.
A maximum of 4 hours can be applied toward the major in Geology. Field and laboratory projects with government and industry. Offered according to demand.
Prerequisite(s): GEO 101 and GEO 102 or GEO 105.

GEO 499. Research In Geology. 1-4 sem. hr.
Offered according to demand.

German (GN) Courses

GN 101. Elementary German I. 4 sem. hrs.
First semester German language course. Class meets five times a week.

GN 102. Elementary German II. 4 sem. hrs.
Second semester German language course. Class meets five times a week.
Prerequisite(s): GN 101 or advisor placement.

GN 103. Accelerated Elementary German. 4 sem. hrs.
Intensive, accelerated study of first and second semester German language curriculum. Class meets five times a week.

GN 201. Intermediate German I. 3 sem. hrs.
Third semester German language course.
Prerequisite(s): GN 102 or GN 103 or advisor placement.

GN 202. Intermediate German II. 3 sem. hrs.
Fourth semester German language course.
Prerequisite(s): GN 201 or advisor placement.

GN 203. Accelerat Intermediate German. 4 sem. hrs.
Either GN 102, 103
Prerequisite(s): GN 102 or GN 103.

GN 205. Living German House I. 2 sem. hrs.
Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 206. Living German House II. 2 sem. hrs.
Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 250. Germanic Mythology. 3 sem. hrs.
Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

GN 254. Survey of German Cinema. 3 sem. hrs.
An overview of German Cinema from Silent Era in the 20's through New German Cinema, to post-wall works. Topics: history, socio-cultural frame, directors and cinematography.

GN 260. Holocaust In Film & Lit. 3 sem. hrs.
An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

GN 264. German Literature Translatn I. 3 sem. hrs.
A survey in English of German literary masterpieces ranging from the Ring of the Nibelungs and Tristan and Isolde to Goethe's Faust. Themes include love, myth, religious freedom, war and peace, and nationhood.

GN 265. German Lit In Translatn II. 3 sem. hrs.
A survey in English of German literary masterpieces of the 19th and 20th centuries. Themes include communism and capitalism, Hitler and the Holocaust, gender, and the responsibility of scientists. Authors might include Kafka, Hesse, Mann, and Grass.

GN 270. Special Topics. 3 sem. hrs.
Topic varies. No knowledge of German is required.

GN 275. Germany Contemp Europe. 3 sem. hrs.
Study of Germany's place in today's Europe; political, social, and cultural aspects are examined.

GN 361. Interm Convers Comp I. 3 sem. hrs.
Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.
Prerequisite(s): GN 202 or instructor approval.

GN 362. Interm Convers Comp II. 3 sem. hrs.
Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.
Prerequisite(s): GN 361 or instructor approval.

GN 365. Business German. 3 sem. hrs.
Acquisition of business German used in commercial transactions. Emphasis is on business letters and business conversation.
Prerequisite(s): GN 361 or GN 362 or instructor approval.

GN 371. German Culture and Civilization Thru 1832. 3 sem. hrs.
A survey of German cultural history from the Germanic tribes through the Age of Goethe. Emphasis is on developments in philosophy, religious thought, music, art, architecture, and popular culture in the context of political and social history.
Prerequisite(s): GN 361 or GN 362 or instructor approval.

GN 372. Germn Cult Civ 1832-Present. 3 sem. hrs.
A survey of German cultural history from the 1830s to the present.

GN 381. Directed Readings. 1-4 sem. hr.
In addition to the stated prerequisites, all 400-level German courses have as a prerequisite 20 hours of coursework in German, or permission of the instructor.

GN 403. Undergraduate Seminar. 3 sem. hrs.
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372.

GN 404. Undergraduate Seminar. 3 sem. hrs.
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372.

GN 450. Intermed Business German. 3 sem. hrs.
Expands and deepens knowledge of business German and prepares students for such internationally recognized business German examinations as the Zertifikat Deutsch f'r den Beruf and Pr'fung Wirtschaftsdeutsch International.
Prerequisite(s): GN 365.

GN 461. Adv Gn Convers Comp I. 3 sem. hrs.
A continuation of GN 361 or GN 362. Discussion, readings, essay writing, and oral reports on variable topics.
Prerequisite(s): GN 361 OR GN 362.

GN 462. Adv Gn Convers Comp II. 3 sem. hrs.
Discussion, readings, essay writing, and oral reports in German.
Prerequisite(s): GN 361 or GN 362.

GN 481. Directed Readings. 1-4 sem. hr.
Students planning to enroll should confer with the instructor before registration.

GN 482. Directed Readings. 1-4 sem. hr.
Students planning to enroll should confer with the instructor before registration.

Greek (GR) Courses

GR 101. Beginning Greek I. 3 sem. hrs.
Fundamentals of Greek grammar and syntax. Offered in the fall semester.

GR 102. Beginning Greek II. 3 sem. hrs.
Continued study of the fundamentals of Greek grammar and syntax. Offered in the spring semester.

GR 201. Intermediate Greek I. 3 sem. hrs.
Introduction to and practice in reading Greek literature, particularly Homer's Iliad.

GR 202. Intermediate Greek II. 3 sem. hrs.
An introduction to Greek prose with an emphasis on Xenophon's Anabasis.

GR 301. Advanced Greek I. 3 sem. hrs.
Select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 302. Advanced Greek II. 3 sem. hrs.
More select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 490. Adv Greek Literature. 3 sem. hrs.
Select readings in Greek literature. An effort is made to accommodate the student's special interests. The course may be repeated for credit. Offered according to demand.

Health Care Management (HCM) Courses

HCM 370. Intro Health Systems. 3 sem. hrs.
Detailed study of components of the health care delivery system in the United States. The course emphasizes history, roles, and interactions of the various providers, consumers, and governments.
Prerequisite(s): MATH 121 or MATH 125; and AC 210 and LGS 200 and ST 260 and CS 102
Prerequisite(s) with concurrency: MGT 300.

HCM 371. Management Health Care Organzt. 3 sem. hrs.
Analysis of operations within health care institutions.
Prerequisite(s): HCM 370.

HCM 473. Survey Issues Health Care Mgt. 3 sem. hrs.
Examination of current issues in health care, including health care policies and their effect on the health care industry.
Prerequisite(s) with concurrency: HCM 370 and HCM 371.

HCM 476. Prin Of Long-Term Care. 3 sem. hrs.
The focus of this class will be on organizational platforms for delivering long-term health care, licensing and regulatory issues facing long-term care and operational and strategic issues facing long-term care.
Prerequisite(s): HCM 371.

HCM 477. Prin Ambulatory Care Managemen. 3 sem. hrs.
The purpose of this course is to help students understand the management issues in today's ambulatory care sector.
Prerequisite(s): HCM 371.

HCM 478. Health Care Information Systems. 3 sem. hrs.
Study of healthcare clinical and administrative systems in the acute, ambulatory, long-term care, and home-health environments. Electronic health records, confidentiality, privacy and admissibility issues are addressed.
Prerequisite(s): HCM 370 AND MGT 300 AND (MIS 200 OR MIS 300 OR MIS 295).

HCM 491. Independent Study. 3 sem. hrs.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251; and LGS 200.

HCM 492. Internship. 3 sem. hrs.
Supervised administrative work experience in the health care industry.

Hebrew (HEB) Courses

HEB 101. Elem Hebrew Language. 3 sem. hrs.
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HEB 102. Elem Hebrew Language. 3 sem. hrs.
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): HEB 101.

HEB 201. Intermed Hebrew Language. 3 sem. hrs.
Continuation of Hebrew language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): HEB 102.

HEB 202. Intermed Hebrew Language. 3 sem. hrs.
Continuation of HEB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without consent of CLC director. Offered according to demand.
Prerequisite(s): HEB 102.

Higher Education (AHE) Courses

AHE 155. Freshman Seminar. 3 sem. hrs.
Special Topic course related to issues and current events in higher education. Freshman Only.

AHE 250. The American University. 3 sem. hrs.
This course is designed to increase understanding of how universities operate as social organizations. Students will explore the main issues, roles, constituencies, and functions of the modern American university.

AHE 450. Res Asst Leadershp Devlp. 2 sem. hrs.

Hindi (HIN) Courses

HIN 101. Elementary Hindi. 3 sem. hrs.
Contemporary Hindi: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HIN 102. Elementary Hindi. 3 sem. hrs.
Contemporary Hindi: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): HIN 101.

History (HY) Courses

HY 101. Western Civ To 1648. 3 sem. hrs.
A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe. Usually offered in the summer session.

HY 102. Western Civ Since 1648. 3 sem. hrs.
Covers the development of the Western world from the Thirty Years' War to the post-World War II era: the age of absolutism, the Enlightenment, the French Revolution, industrialization and the wars of the 20th century. Usually offered in the summer session.

HY 103. America Civilization to 1865. 3 sem. hrs.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 104. Am Civ Since 1865. 3 sem. hrs.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 105. Honors West Civ To 1648. 3 sem. hrs.
Honors sections of HY 101.

HY 106. Honors West Civ Sc 1648. 3 sem. hrs.
Honors sections of HY 102.

HY 107. Honors Am Civ to 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 203.

HY 108. Honors Am Civ Sc 1865. 3 sem. hrs.
An honors-level approach to the American experience.

HY 110. Comparative World Civ. 3 sem. hrs.
Examines various civilizations in the world prior to A.D. 1500 and compares their governments, societies, economies, religions, science, learning, and technology. History majors may substitute HY 110 for HY 101 to satisfy part of the Western civilization requirement.

HY 111. Colonial Latin America. 3 sem. hrs.
Formation of the largely Spanish speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 112. Modern Latin Am Since 1808. 3 sem. hrs.
Survey of political, economic, and social life in the 19th and 20th centuries with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 113. Asian Civilization to 1400. 3 sem. hrs.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan and Southeast Asian, with large cultural and religious emphases.

HY 114. Modern Asia since 1400. 3 sem. hrs.
Conditions of various Asian civilizations in the 15th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism and Asian nationalism.

HY 115. History of Science to 1687. 3 sem. hrs.
This course will explore the origins and evolution of science and technology and the relationship both had to the societies that produced them. In addition to reading foundational texts in the history of science, like Aristotle and Galileo, we will address larger themes, including the relationship between science and religion and the role of science and scientists in the societies that produced them.

HY 116. History of Science Since 1687. 3 sem. hrs.
Science and technology are ever-present in today's world, defining not only how we live our daily lives but also shaping our conceptions and evaluations of modernity, civilization, and progress. How did science and technology become so important and pervasive to the modern world? This course is intended as an introduction to the history of modern science and technology from the Enlightenment to the present. Our focus will be on the development of science and technology in the Western World (Europe and North America). However, we will also make comparisons across cultures to explore how science and technology shaped notions of what counts as "Western" and "modern." In addition to learning about key developments in the history of science and technology, from Ford's Model-T to Einstein's theory of relativity, we will address larger themes, including the relationship between science and religion and the role of technology in war and empire.

HY 200. Special Studies in Hy. 1-3 sem. hr.

HY 203. Amer Civilizatn To 1865. 3 sem. hrs.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 204. Amer Civilizatn Sc 1865. 3 sem. hrs.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 205. Honors Amer Civ To 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 203. Open to freshmen.

HY 206. Honors Amer Civ Sc 1865. 3 sem. hrs.
An honors-level approach to the American experience; parallel to HY 204. Open to freshmen.

HY 225. Hy Alabama To 1865. 3 sem. hrs.
State history under the flags of Spain, France, Great Britain, the U.S., and the Confederate States, with emphasis on cultural heritage.

HY 226. Hy Alabama From 1865. 3 sem. hrs.
Survey of Alabama's history and personalities since 1865: Reconstruction, agrarian revolt, Progressivism, the KKK, Dixiecrats and the Civil Rights movement.

HY 235. Christ Church To 1500. 3 sem. hrs.
Survey of the Christian church from its origins in the Middle East through its victory over the Roman Empire and its ascendancy in the Middle Ages.

HY 236. Christ Church Sc 1500. 3 sem. hrs.
Cultural and institutional history of the Christian church with emphasis on the Reformation and Counter-Reformation and discussion of the church in the New World.

HY 237. Colonial Latin America. 3 sem. hrs.
Formation of the largely Spanish-speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 238. Modern Lat Am Sc 1808. 3 sem. hrs.
Survey of political, economic, and social life in the 19th and 20th centuries, with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 243. History of Asia to 1400. 3 sem. hrs.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan, and Southeast Asia, with largely cultural and religious emphases.

HY 244. History of Asia Since 1400. 3 sem. hrs.
Conditions of various Asian civilizations in the 16th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism, and Asian nationalism.

HY 247. England To 1688. 3 sem. hrs.
History of Western civilization in one country, from Anglo-Saxon times to the growth of absolutism and resistance.

HY 248. England Since 1688. 3 sem. hrs.
England from the Glorious Revolution to the post-World War II era, with emphasis on social and cultural topics as well as foreign affairs.

HY 295. Us Naval History. 3 sem. hrs.
Traces the development of the U.S. Navy from sailing ships to nuclear vessels, and relates it to political and economic conditions and to wars throughout American history.

HY 300. Special Studies in History. 3 sem. hrs.

HY 301. Independent Study. 1-3 sem. hr.
Directed study done by special arrangement with a faculty member of the History Department. Requires sophomore standing and permission of the instructor.

HY 306. Hy Of Oriental Thought. 3 sem. hrs.
Examination of major developments and trends in Asian cultural and intellectual history. Topics vary.

HY 312. American South Before 1865. 3 sem. hrs.
The South from colonial times to the Civil War, tracing the growth of the plantation system, extension of the frontier, commerce and industry, cultural influences, and the institution of slavery.

HY 313. American South Since 1865. 3 sem. hrs.
History of the South since 1865, covering Reconstruction, the Bourbon Democracy, the New South Creed, populist revolt, World War I, the 1920s, the Great Depression, the civil rights movement, and Southern politics.

HY 314. Coming Of The Civil War. 3 sem. hrs.
American history from 1815 to 1861, giving special emphasis to the development of a distinctive American culture and the factors within that culture that led to the Civil War.

HY 315. The Civil War. 3 sem. hrs.
The military, political, diplomatic, social, and intellectual aspects of the Civil War years, and the impact of the war on subsequent American history.

HY 316. Life & Legend Abraham Lincoln. 3 sem. hrs.
The life and legend of the man often considered to be the representative American.

HY 318. U S Since 1945. 3 sem. hrs.
Topical survey of the economic, social, political, and cultural developments in the United States since World War II.

HY 319. 19th Century Black History. 3 sem. hrs.
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

HY 320. 20th Century Black History. 3 sem. hrs.
The interrelationship of blacks and the industrial-urban environment of the United States.

HY 321. Religion In Modern Europe. 3 sem. hrs.
A survey of religious thought and practice in Europe since 1750.

HY 323. Us Constitut Hy To 1877. 3 sem. hrs.
Deals with the evolution of constitutional law and the nature and process of judicial review, including 18th-century constitutional theory and Supreme Court decisions.

HY 324. Us Constitut Hy Sc 1877. 3 sem. hrs.
Continuation of HY 323, tracing developments up to the current Supreme Court.

HY 325. Us-World Power To 1898. 3 sem. hrs.
Emphasizes idealism and realism in foreign policy, the change from isolationism to international involvement, "New Manifest Destiny," and the rise of America to world power.

HY 326. Us-World Power Sc 1898. 3 sem. hrs.
Emphasizes American international involvement through the Panama Canal, the Roosevelt Corollary, World War I and the League of Nations, Pearl Harbor and World War II, the Cold War, Vietnam War, and after.

HY 330. Civil Rights Movement. 3 sem. hrs.
History of the leaders, organizations, and events of the Civil Rights Movement during the years 1945 to 1968.

HY 331. Religion and Civil Rights. 3 sem. hrs.
Religion and Civil Rights studies the civil rights movement in Tuscaloosa and West Alabama. Students examine how religious beliefs and institutions undergirded the movement and then partner with a local black church to tell its history under segregation. Students will interview older congregants about their lives during Jim Crow, transcribe the interviews, and synthesize their research a book for the church.

HY 341. Hy Us - Vietnam War. 3 sem. hrs.
Survey of the historical background of the conflict in Indochina leading to U.S. involvement and its consequences.

HY 349. History of France 1760-present. 3 sem. hrs.
This course examines majro trends in the social, cultural, economic and political history of modern France. Major themes include: republicanism and citizenship, nationalism, daily life, war, class conflict, consumerism, imperialism, the arts and gender.
Prerequisite(s): HY 102 or HY 106.

HY 355. German History Sc 1740. 3 sem. hrs.

HY 357. World War I. 3 sem. hrs.
The war to end all wars," from the European crises culminating at Sarajevo in 1914 to peacemaking at Versailles in 1919, with emphasis on the western and eastern fronts and on the war at sea.

HY 358. World War II. 3 sem. hrs.
The global conflict, or series of conflicts, from Manchukuo in 1931 to Tokyo Bay in 1945, with emphasis on battles on land and sea and in the air, life on the home fronts and in enemy-occupied areas, and the legacy of the war to future generations. Writing proficiency within this discipline is required for a passing grade in this course.

HY 361. Russia To 1894. 3 sem. hrs.
Political history of Russia from the ninth to the 19th centuries, followed by social and cultural history of the Russian revolutionary movement.

HY 362. Russia-Soviet Union Since 1894. 3 sem. hrs.
Crisis in Russian society and the coming of the Revolution; the emergence of Stalinism; and political developments since World War II, including the disintegration of the Soviet system.

HY 365. European Consumer Society. 3 sem. hrs.
This coruse explores the evolution of modern Europe's consumer society from the 18th century to the present to understand how changing patterns of consumption fostered new relationships between individuals and the material world.
Prerequisite(s): HY 102 or HY 106.

HY 377. Mexico since 1810. 3 sem. hrs.
Mexican Independence, the Constitution of 1824, Santa Anna, revolutions in the 19th and 20th centuries, and contemporary Mexico.

HY 384. Ancient Egypt Near East. 3 sem. hrs.

HY 385. History Of Greece. 3 sem. hrs.

HY 386. History Of Rome. 3 sem. hrs.

HY 390. Survey Of Irish History. 3 sem. hrs.
A comprehensive look at the Irish experience from prehistoric times to the present.

HY 393. British Emp & Commonwealth. 3 sem. hrs.
Rise and fall of the British Empire: its creators, bureaucracy, wars, ideas, and the forces that transformed it. Writing proficiency within this discipline is required for a passing grade in this course.

HY 395. History Colloquium. 3 sem. hrs.
Intensive reading, writing, and discussion on special topics in history.

HY 399. History Honors Colloquium. 3 sem. hrs.
Focuses on the discipline of history itself. Will examine some of the fundamental questions about what history is and why the study of history matters. Subject matter varies by term.

HY 400. Special Studies in History. 1-6 sem. hr.
Writing proficiency within this discipline is required for a passing grade in this course.

HY 402. Modern Japan Since 1550. 3 sem. hrs.
Major emphasis on the end of the Tokugawa Period (1800-1868), the rise of modernized Japan in the Meiji Period (1868-1912) and the 20th century.

HY 403. Chinese Civiliz To 1600. 3 sem. hrs.
Survey of Chinese culture from the Shang period through the Ming period.

HY 404. Modern China Since 1600. 3 sem. hrs.
Survey of Chinese history in the Ch'ing Dynasty and the 20th century with emphasis on 19th- and 20th-century events.

HY 408. Colonial Us To 1763. 3 sem. hrs.
Topical survey of major themes in U.S. colonial history, with particular emphasis on Anglo-American developments.

HY 409. Amer Rev/New Nation. 3 sem. hrs.
The development of revolutionary sentiment in the North American colonies, the resulting revolution, and the subsequent efforts to establish the new nation. Writing proficiency within this discipline is required for a passing grade in this course.

HY 411. Comp. Slavery & Emancipation. 3 sem. hrs.
Explores the development of slavery and teh struggles for emancipation in the Americas 1400-1900. Focusing on how race, gender and region shaped experiences.
Prerequisite(s): HY 203 or HY 205.

HY 413. Mexican War Thru Civil War. 3 sem. hrs.
Examines how Americans thought about and used armed force from 1845 to 1865.Writing proficiency within this discipline is required for a passing grade in this course.

HY 416. Us Fr Recons To Wwar I. 3 sem. hrs.
Selected topics relating to the development of the U.S., especially domestic affairs and the growth of important institutions.

HY 417. Us From Ww I To Wwii. 3 sem. hrs.
Covers U.S. participation in two world wars, the Roaring Twenties, and the Great Depression. Government, society, and culture receive attention and analysis.

HY 424. American Though Before 1860. 3 sem. hrs.
American intellectual/cultural history to 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency is required to pass. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 203 or HY 205.

HY 425. American Thought since 1860. 3 sem. hrs.
American intellectual/cultural history since 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 204 or HY 206.

HY 427. Women in Early America. 3 sem. hrs.
Explores women's lives from European settlement to 1877 with attention to ideologies about women's roles and the influences of region, race, class and ethnicity.
Prerequisite(s): HY 203 or HY 205.

HY 428. Women In America. 3 sem. hrs.
Examines the experiences of women from mid-nineteenth century to present with special attention to ideologies about women's roles and effects of region, race, class and ethnicity.
Prerequisite(s): HY 204 or HY 206.

HY 429. Spanish Frontier in N. America. 3 sem. hrs.
History of the Spanish advance into the present-day borders of the U.S., explaining how Spain fought and finally succumbed to the more dynamic and aggressive French and English.

HY 430. UG Research Seminar. 3 sem. hrs.
This course will offer training in historical methods and theory. It will culminate in a 15 page research paper and oral presentation. Writing proficiency within this discipline is required for a passing grade in this course.

HY 432. Gender and Native Americans: Beyond Pocohontas. 3 sem. hrs.
Explores contact between Native Americans and Europeans in the early Americas through attention to gender, stressing the diversity of Native life ways.
Prerequisite(s): HY 203 or HY 205.

HY 442. The Middle Ages. 3 sem. hrs.
Foundations of the modern world in barbarian Europe: retreat into the countryside and private government, recovery of public institutions, money economy, and cultural vitality.

HY 443. Renaissance. 3 sem. hrs.
Study of intellectual movements associated with the Renaissance, including readings in Machiavelli's Prince, More's Utopia, and other humanist writings; social life, economy, religion, politics, and statecraft. Writing proficiency within this discipline is required for a passing grade in this course.

HY 444. Reform & Counter-Reformation. 3 sem. hrs.
History of the separation of the Catholic and Protestant churches from the ideal of the universal Christian church and late medieval religious practice. Writing proficiency within this discipline is required for a passing grade in this course.

HY 446. Age Of Reason 1715-89. 3 sem. hrs.
The Enlightenment of Voltaire, Diderot, Rousseau, Franklin, Hume, Goethe, and Kant, whose writings exalted individual reason, tolerance, liberalism, science, and public service and set the stage for the French Revolution.

HY 447. French Revln & Napoleon. 3 sem. hrs.
Causes, course and effects of the revolution, from the storming of the Bastille to Napoleon's seizure of power, conquests and final defeat at Waterloo.

HY 448. Women in Europe since 1750. 3 sem. hrs.
This course surveys women's lives in Europe from 1750 to the present. Themes explored include: identify construction, power relationships, domesticity, class, war, consumerism and sexuality.
Prerequisite(s): HY 102 or HY 106.

HY 451. Early Modern Germany. 3 sem. hrs.
This course examines the political, religious, intellectual, military, cultural and social history of German speaking central Europe from the Eve of the Protestant Reformation to the eve of the French Revolution. Writing proficiency within this discipline is required for a passing grade in this course.

HY 471. Age Exploration & Conquest. 3 sem. hrs.
A history of exploration during the 15th and 16th centuries, when European nations expanded by sea voyages and conquest, settling in the Americas, Africa, and Asia.

HY 474. Relation Us Latin Amer. 3 sem. hrs.
Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

HY 475. Caribbean Basin 1492 - Present. 3 sem. hrs.
Traces the evolution of Caribbean and Central American nations from the first European settlements to the present.

HY 476. Hy Religion In Latin America. 3 sem. hrs.
The history of religion in Latin America from the late fifteenth century through the early twenty-first century.

HY 480. Survey Of Military History. 3 sem. hrs.
Introduction to the ways in which human beings have organized and used armed force over the course of recorded history.

HY 481. War/Dipl. in Med & Mod. Eur. 3 sem. hrs.
This course examines developments in European warface and diplomatic practice in the late medieval and early modern periods. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 101 or HY 102.

HY 482. War & Religion in the West. 3 sem. hrs.
This course examines the complex interrelationships between religion and armed conflict in the Western tradition from the ancient world into modern times. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): HY 101 or HY 102 or HY 105 or HY 106.

HY 490. England Under Tudors. 3 sem. hrs.
Development of an early modern state: establishment of a strong central monarchy, religious crises from the Reformation to the Puritan movement, and exuberance and excess of an expanding society. Writing proficiency within this discipline is required for a passing grade in this course.

HY 491. England Under Stuarts. 3 sem. hrs.
How Englishmen of the 17th century worked out the great questions of their day: Was liberty compatible with strong government? Could English elites share power without destroying it? What did God want for England? Writing proficiency within this discipline is required for a passing grade in this course.

HY 493. Britain In 18th Century. 3 sem. hrs.
From the Hanoverian Succession in 1714 to victory at Waterloo in 1815: political development, the Agrarian and Industrial Revolutions, John Wesley, Samuel Johnson, and an apparently endless succession of wars. Writing proficiency within this discipline is required for a passing grade in this course.

HY 494. Britain In The Victorian Age. 3 sem. hrs.
Britain at her apogee: possessor of the empire on which the sun never set, world economic leader, nation of Peel and Palmerston, Gladstone and Disraeli, Dickens and Trollope, Tennyson and Browning, Turner and Constable.

HY 498. Honors Thesis I. 3 sem. hrs.
Independent research and writing to produce a senior honors thesis in history.

HY 499. Honors Thesis II. 3 sem. hrs.
Independent research and writing to produce a senior honors thesis in history.
Prerequisite(s): HY 399 and HY 498.

History, Philosophy and Sociology of Education (BEF) Courses

BEF 360. Social Psychol Foundtns Educ. 3 sem. hrs.
An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

BEF 362. School, Culture, and Society. 3 sem. hrs.
An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

BEF 490. Democracy, Ideology & Educ. 3 sem. hrs.
Students will explore the meanings and requirements of democracy, investigate how ideology functions and impacts democracy and how both democracy and ideology affects policies, practices and purposes of schooling. This course will not substitute for current and future COE requirements, including BEF 362 or 360. It will also not be used in the GPA calculation of professional studies.

Human Development and Family Studies (HD) Courses

HD 101. Life Span Human Development. 3 sem. hrs.
An introductory survey of basic principles of human development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial development.HD 101 counts toward the Social and Behavioral Sciences requirement of the UA Core.

HD 155. Freshman Seminar. 3 sem. hrs.

HD 202. Child Dev-Infancy/Todlr. 3 sem. hrs.
The growth and development of the child from conception to three years of age are studied. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week.

HD 203. Medical Terminology. 2 sem. hrs.
A study of medical language by exploring the structure, meaning and usage of terms frequently utilized in health care settings. A basic summary of the body systems is included.
Prerequisite(s): BSC 109 or BSC 114 or BSC 118 and BSC 115.

HD 205. Child Dev-Preschool. 3 sem. hrs.
Growth, development, and guidance of young children. Practical implications of research and major theoretical issues and observational techniques are addressed. The importance of play in fostering a broad range of developmental goals for children is stressed. Three lecture hours, one laboratory hour per week.

HD 210. Understanding Addiction. 3 sem. hrs.
This course is an examination of chemical addiction (e.g.drugs) and behavioral addiction (e.g.,gambling). Theories of addiction, treatment of addiction, and current research on addiction will be discussed.
Prerequisite(s): None.

HD 226. Introduction To Child Life. 3 sem. hrs.
Provides students with an introduction to the field of child life.

HD 262. Marriage And Family. 3 sem. hrs.
A study of marriage and family relationships from a combination of sociological and psychological perspectives.

HD 282. Intro to Pre-K Education. 3 sem. hrs.
Course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K Initiative. An overview of development, guidance, and curriculum planning will be included. Lab participation included.

HD 302. Child Dev-Adolescence. 3 sem. hrs.
Introduction to the theory of and research on development of children ages nine to eighteen. Special attention is given to major transitions in the cognitive, social, and moral domains, as well as to psychological effects of physical maturation. Influences of the family, the schools, and peer relations on adolescent development are considered.

HD 321. Concp Creat Exper Young Child. 3 sem. hrs.
The principles underlying the selection, use, and value of experiences that appropriately foster concept development and creative expression in young children are examined. Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting.One-and-a half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205.

HD 322. Conc Creat Exper Yng Chld II. 3 sem. hrs.
Second in the sequence in which students examine the principles underlying the selection, use, and value of experiences that foster concept development and creative expression in young children.Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting. One-and-a-half lecture hours, one-and-a-half laboratory hours per week. For majors only.
Prerequisite(s): HD 205 and HD 321.

HD 345. Addiction and the Family. 3 sem. hrs.
This course is an examination of the impact of substance abuse and addiction on the family as well as the influence of familial factors and family dynamics on addiction and the process of recovery.

HD 350. Treatment For Addictive Disorders. 3 sem. hrs.
This course will survey contemporary therapeutic approaches used to treat addictive disorders.

HD 382. Parent And Family Devt. 3 sem. hrs.
Explores the changing nature and dynamics of parent-child relationships. Implications for parent education programs and parenting strategies are included.

HD 399. Prior Learng Human Development. 1-30 sem. hr.

HD 401. Cult Influ Child Yth Fam. 3 sem. hrs.
This course is designed to understand race and ethnicity in its political, social and historical context. Since the culture in which we are raised as children and youth greatly influences our attitudes, beliefs, values and behaviors, it is important to gain an awareness of the cultural background of our own, as well as others' thoughts, feelings and acts. Writing proficiency within this discipline is required for a passing grade in this course. At the completion of this course, students should be able to recognize and appreciate the emotional and intellectual energies felt by a variety of subculture groups and be able to express this awareness through the written word.

HD 405. Policy Issues: Family and Addiction. 3 sem. hrs.
The impact of government policies on youth, adults, and families with addictions will be the focus of this course. The course will examine the intersection of addictions and crime, while exploring the policies and practices of specialty courts such as Juvenile Court, Family Court, Drug Courts and others. In addition, the students will review the current state of the family,family trends, and the implications for family policy. The varied effects that policies and programs can have on different types of families and different aspects of family functioning will be explored. The process of policy formation, implementation, evaluation and advocacy will be reviewed. Finally we will examine current economic and political forces that influence federal and state governments in development and implementation of key areas of legislation, and the impact of such policy on citizens and their families.
Prerequisite(s): None.

HD 412. Adult Development. 3 sem. hrs.
Theories of and research on social, emotional, cognitive, and physical development throughout adulthood: young adulthood, middle adult years, and older adult years. Writing proficiency within this discipline is required for a passing grade in this course.

HD 422. Admin Child Centers & Programs. 3 sem. hrs.
Children's centers and programs, including child development and child life programs, are examined and evaluated. Legislation, standards, program planning, and practical aspects of financing, administration, supervision, and management are explored. Writing proficiency within this discipline is required for a passing grade in this course.

HD 425. Adv Preschool Dev & Curriculum. 3 sem. hrs.
This course is designed for students to understand, design, implement and evaluate appropriate curricular practices for preschool children. Developmental theories and current issues in early childhood education are examined.

HD 426. Hospitalized Child Youth. 3 sem. hrs.
Examination of the theoretical basis of the psychosocial care of children, youth, and families in health care settings. The etiology of childhood illness and disease, clinical procedures, communication techniques, and research literature are studied from a developmental perspective. 45 practicum hours are required.

HD 451. Loss And Bereavement. 3 sem. hrs.
Designed to give child life students opportunities for in-depth study of issues of grief and bereavement as they impact children and families. An emphasis is placed on theories of grief resolution and applications in health care settings. The class is conducted in a seminar format with out-of-class placements.

HD 462. Interpersonal Relationships. 3 sem. hrs.
The course examines the dynamics of interpersonal interaction related to the development and maintenance of relationships. Current issues and problems are explored and related to marital and family system characteristics.

HD 472. Program Evaluation. 3 sem. hrs.
Examines the principles and methods by which programs for children and families are empirically evaluated.

HD 475. Human Sexuality Sex Education. 3 sem. hrs.
Current scientific knowledge of physiological, sociological, and psychological factors influencing sexual development and relations.

HD 480. Children And Divorce. 3 sem. hrs.
Examines the effects of divorce on children's cognitive and social-personality development.
Prerequisite(s): HD 101 or HD 262.

HD 483. Methods of Family Life Education. 3 sem. hrs.
Provides opportunities to plan, implement, and evaluate family life education programs. Standards and criteria leading to certified family life educator are overviewed. Professional responsibilities and ethics are emphasized.
Prerequisite(s): HD 382.

HD 488. Senior Seminar. 2 sem. hrs.
Examines the theory and philosophy of programs for families and children. Issues of professional identity and ethics are also discussed.

HD 491. Direct Individ Study-Hd. 1-6 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 492. Dir Ind Study Fam Rel. 1-3 sem. hr.
Designed to enable students to pursue special needs and interests under supervision.

HD 493. Directed Research. 1-6 sem. hr.

HD 495. Early Childhood Devel Intern. 6-12 sem. hrs.
Internship experience for students in the early childhood development concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322.

HD 496. Child Life Internship. 12 sem. hrs.
Internship experience for students in the child life concentration only.2.5 GPA in HD coursework, fully executed HDFS Application for Internship form and permission of the instructor.
Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322 and HD 426.

HD 497. Family Studies Internship. 6-12 sem. hrs.
Internship experience for students in family studies concentration only. 2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor. Most internship opportunities require a 2.5 GPA.
Prerequisite(s): HD 483.

HD 498. Adolescent Youth Devel Intern. 6-12 sem. hrs.
Internship experience for students in the adolescent and youth development concentration only.2.0 GPA in both HD and UA coursework, fully executed HDFS Application for Internship form, and permission of the instructor.
Prerequisite(s): HD 302.

Human Environmental Sciences (HES) Courses

HES 100. Freshman Compass Human Env Sci. 3 sem. hrs.
Designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills.

HES 103. Distance Compass HES. 3 sem. hrs.
This course is open to incoming CHES distance learning students and provides an introduction to the nature of higher education and a general orientation to the functions, resources, and activities of The University of Alabama. Students also receive an introduction to the careers within the scope of the family and consumer sciences profession.

HES 225. Mentoring. 3 sem. hrs.
Provides students who are interested in becoming one-on-one mentors for at-risk elementary and middle school students with knowledge and skills needed to be successful.

HES 250. Career Develop/Planning. 3 sem. hrs.
This elective course designed for freshmen and sophomores offers students opportunities to evaluate themselves, their abilities and interests, their personality characteristics, and their values, in order to begin forming career goals or to complete goals already set. This course will provide students with information on occupational characteristics, the career decision-making process, current issues in the career world, developing employability, job readiness, and job search techniques.

HES 275. Leadership Develop Thru Serv. 3 sem. hrs.
Encourages volunteerism as a way to develop leadership skills and a sense of responsibility to one's community as advocates for service. Students are provided with a list of nonprofit service agencies in Tuscaloosa, from which they may choose. Students may submit alternative sites for approval by the instructor. Students must provide their own transportation to the volunteer site.

HES 310. Issues Human Envir Sciences. 3 sem. hrs.
History and philosophy of human environmental sciences; present and future societal issues and their implications for the profession and professional procedures.

HES 390. Practicum Human Envir Sciences. 3-6 sem. hrs.
Provides students with an opportunity to apply classroom knowledge in a work setting appropriate with career goals.

HES 399. Prior Learning In Hes. 0-30 sem. hrs.
Prior Learning in HES.

HES 430. Managing in a High Performance Organization. 3 sem. hrs.
This course will provide an interactive exploration of management skills that enable an individual to effectively communicate, build and lead teams, delegate, make presentations and manage priorities to achieve success.

HES 450. Volunteer & Civic Respon. 1-3 sem. hr.
Study of the importance of volunteerism to nonprofit organizations. Students will gain practical experience working with one or more nonprofit organizations.

HES 452. Trends & Issues. 3 sem. hrs.
Course developed for sport professionals to gain knowledge and understanding of contemporary trends and issues in sport management.

HES 459. Management Strategies. 3 sem. hrs.
Indepth analysis for sport professionals to study and review management and leadership strategies in various sport organizations.

HES 460. Sport Management. 3 sem. hrs.
This course is designed for sport professionals desiring to increase their knowledge and understanding of management issues in their job settings and professional careers. This course will review the following issues: sport management; scope and career opportunities; organizational theory; human resource management; ethics; risk management; sport governance; managing sport facilities; marketing; sport licensing; economics; accounting and budgeting; financing sport; and tourism.

HES 485. Self-managed Mentoring. 3 sem. hrs.
This web-based course explores self-development of the individual and mentoring as a part of leadership development. Writing proficiency within this discipline is required for a passing grade in this course.

HES 490. Indiv Stdy Human Envir Science. 1-6 sem. hr.
Individual study in an area of human environmental studies.

Human Nutrition and Hospitality Management (NHM) Courses

NHM 101. Intro Human Nutrition. 3 sem. hrs.
Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

NHM 105. Personal Nutrition. 3 sem. hrs.
Discussion and application of nutrition as it relates to personal health.

NHM 195. Intro Dietetics Nutritn. 1 sem. hr.
An overview of the professions in nutrition and dietetics. Course includes guest speakers and lectures.

NHM 201. Nutrition In Life Cycle. 3 sem. hrs.
Application of principles of basic nutrition to each stage of the life cycle. Emphasis is on the relationship of nutrition to growth, development, and health.
Prerequisite(s): NHM 101.

NHM 210. Dynamics Weight Control. 3 sem. hrs.
Analysis of interaction of nutrition and exercise in weight control. Techniques for measuring energy needs, estimating body composition, applying nutrition principles to weight control, and evaluating popular diet and exercise programs.

NHM 250. Principles of Food Preparation. 3 sem. hrs.
Principles of Food Preparation as they relate to food quality and acceptability. Restricted to RHM and NHM minors.

NHM 253. Food Science. 3 sem. hrs.
Relation of food composition and structure to food preparation. One lecture, two laboratories.

NHM 305. Vegetarian Nutrition. 3 sem. hrs.
This course will provide students with an introduction to vegetarian nutrition, including background information on general nutrition. This course will also cover a vegetarian diet's role in disease prevention, courses of plant-based nutrients, vegetarian diets throughout the life cycle, food policy and how to implement vegetarian diets into different areas of dietetic practice.

NHM 315. Nutrition For Performance. 3 sem. hrs.
This course is designed to address nutrition issues related to exercise and athletic performance.
Prerequisite(s): NHM 101.

NHM 320. Food in Film. 3 sem. hrs.
This course begins as an introduction to the portrayal of food and nutrition culture in film media and goes on to explore the dynamic interaction of shifting food and nutrition values with evolving media production trends. Film media explored includes television, movies, documentaries and news.

NHM 340. Community Nutrition. 3 sem. hrs.
Nutrition assessment of individuals and groups; provision of nutrition services in the community. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 361. Nutritional Biochemistry. 3 sem. hrs.
Intermediary metabolism of carbohydrates, fat, and protein with emphasis on homeostatic regulation in health and disease.
Prerequisite(s): CH 105 or CH 231.

NHM 362. Nutrition At Cell Level. 3 sem. hrs.
Physiological and chemical basis of nutrient needs.
Prerequisite(s): NHM 361.

NHM 363. Applied Nutrition. 3 sem. hrs.
Principles of nutrition assessment, including interviewing and nutrition care plans. Application of principles to selected stages of the life cycle.
Prerequisite(s): NHM 201 and BSC 215 and BSC 216.

NHM 365. Med Nutr Therapy I. 3 sem. hrs.
Study of pathophysiology and medical nutrition therapy for specific disease conditions.
Prerequisite(s): BSC 215 and BSC 216 and NHM 361 and NHM 363.

NHM 366. Supv Pract Med Nutr Therapy I. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 365 coursework.
Prerequisite(s): NHM 365.

NHM 372. Intro Food Service Mgt. 3 sem. hrs.
Course includes theories, functions, and principles of management and tools for decision making. Offered in the fall semester.

NHM 373. Purchsg Design Risk Mgt Food S. 3 sem. hrs.
Principles, methods, and techniques used in purchasing food and equipment. Analysis of layout and design and of techniques used in evaluating work flow. Principles and techniques used in managing sanitation, safety, and security functions in food service.

NHM 374. Quant Food Prod & Servc. 3 sem. hrs.
Theory and techniques of quantity food production and service. Application of theory through hands-on experience.
Prerequisite(s): NHM 253.

NHM 390. Pract Food Service Mgt I. 3 sem. hrs.
This directed individual study is designed to bridge the gap between the student's quantity foods laboratory course and the senior food service management supervised practice. Students will be placed in commercial health-care food service operations.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 395. Intro Research Food Nutr. 1 sem. hr.
Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the American Dietetics Association Web site. Student membership in the American Dietetic Association is a requirement of this course.
Prerequisite(s): NHM 101 and NHM 201.

NHM 401. Nutrition Health Profesn. 3 sem. hrs.
Covers the practical application of principles of normal nutrition (including the nutritive value of foods) and introduces nutrition for persons with health problems. Primarily for students pursuing careers in health care.

NHM 441. Nutrition Education. 2 sem. hrs.
Focuses on developing competency in learning-system design, with special emphasis on teaching nutrition in various settings.
Prerequisite(s): NHM 101 and NHM 201.

NHM 442. Nutrition Care Process. 1 sem. hr.
Focuses on developing competency in nutrition counseling.
Prerequisite(s): NHM 101 and NHM 201
Prerequisite(s) with concurrency: NHM 363.

NHM 454. Experimental & Functional Food Science. 3 sem. hrs.
Chemical and physical properties affecting food product development. Introduction to functional foods with additional value beyond basic nutrition. Writing proficiency required for passing grade in this course. Offered in Fall and Spring semesters. Two lectures per week with labs embedded within lectures.
Prerequisite(s): NHM 101 and NHM 253 and CH 105.

NHM 457. Childhood Obesity. 3 sem. hrs.
Focuses on the physiological, genetic, environmental, and behavioral factors that predispose children and adolescents to obesity; explores the clinical and public health strategies for treatment and prevention.

NHM 464. Superv Pract Commun Nutr. 1 sem. hr.
Experiences that include nutrition assessment and counseling and delivery of nutrition services in the community.

NHM 465. Medical Nutrition Therapy II. 3 sem. hrs.
Continuation of NHM 365. Basic principles of enteral and parenteral nutrition support, as well as advanced medical nutrition therapy for critical care.
Prerequisite(s): NHM 365.

NHM 466. Sup Pract Med Nutr Therapy II. 3 sem. hrs.
Supervised clinical dietetics experience applying NHM 465 coursework.

NHM 467. Supervised Practice in Long-term Care. 3 sem. hrs.
Supervised clinical dietetics experience in the long-term care setting.
Prerequisite(s): NHM 365 and NHM 366 and NHM 465 and NHM 566.

NHM 468. Practicum Nutrition Food Servi. 1-5 sem. hr.
Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM 475. Mgt Food Service Systems. 3 sem. hrs.
Through lectures and class discussions, the theory, functions, and principles of management are applied. Emphasis is on personnel and financial management, problem solving, decision making, and systems analysis.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374.

NHM 476. Pract Food Serv Mgt II. 2 sem. hrs.
Supervised practice in an institutional food service setting applying NHM 475 coursework.

NHM 485. Sup Prac in Dic Mgmt. 3 sem. hrs.
Conduct a research project using appropriate research methods, ethical procedures and statistical analysis to culminate in the execution of a program for a target population. Develop and implement a curriculum, adhere to budget constraints and implement a marketing plan, utilizing web based messages and social media.
Prerequisite(s): NHM 366 and NHM 390 and NHM 464 and NHM 466.

NHM 490. Directed Individual Study. 1-6 sem. hr.
Individual study in nutrition or food service management.

NHM 491. Directed Professional Study. 3 sem. hrs.
Individual professional study in management, clinical, or community dietetics. Requirement of 160 clock hours spent in assigned site. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): NHM 365.

NHM 492. Prepare Dietetic Internship. 1 sem. hr.
To provide students in the DPD program who are seeking a Verification Satement with the knowledge to be successful in applying for a dietetic internship upon graduation.

NHM 499. Undergraduate Research. 1-6 sem. hr.
Under faculty supervision, the student designs an investigation; collects and analyzes data; and prepares a written report and seminar on the research project.

Indonesian (INDO) Courses

INDO 101. Elem Indonesian Language. 3 sem. hrs.
Contemporary Indonesian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

INDO 102. Elem Indonesian Language. 3 sem. hrs.
Contemporary Indonesian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): INDO 101.

INDO 201. Intermediate Indonesian. 3 sem. hrs.
Continuation of Indonesian language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand.
Prerequisite(s): INDO 102.

Information Sciences (IS) Courses

IS 100. Info I: Info Access & Evaluati. 3 sem. hrs.
How to find and use information in systems designed and managed by others: asking questions; access; selection; evaluation; synthesis; and design of research projects.

IS 202. Soc I Hy & Effects Info Stud. 3 sem. hrs.
Ways in which the new information technologies are transforming society and issues raised by the information environment's rapid changes.

IS 402. Society Ii: Info In 21st Cent. 3 sem. hrs.
The most successful economic, political, social and cultural experiments in today's electronic environment, found in communities, businesses and governance of all kinds, suggest what will become the trends of the global information economy of the 21st century.

International Business Administration (IBA) Courses

IBA 250. Context of Glob Bus. 3 sem. hrs.
Broad introduction to international business providing students with an overview of the terms and concepts key to a better understanding of the complex business environment across the world's interrelated economies.
Prerequisite(s): EC 110 and EC 111.

IBA 350. Intro World Business. 3 sem. hrs.
This course examines the conduct of business across national boundaries and the impact of different cultures on business practices.
Prerequisite(s): MGT 300 or MKT 300.

IBA 351. Multinatl Business Communctn. 3 sem. hrs.
A study of the principles and practices of intercultural business communication, written and personal. The course requires substantial reading. The focus is on making students aware of the sources of common intercultural business communication problems, and on helping them develop strategies to avoid or correct these problems.
Prerequisite(s): MGT 300 or MKT 300.

IBA 455. Global Marketing. 3 sem. hrs.
A course in marketing theory and methods as they apply to world markets. Among the topics discussed are: the importance of linking international marketing with the overall strategy of the business while examining the impact of cultural, political and legal issues and the economic differences in global strategies. Emphasis is placed on developing the marketing mix appropriate to various international global environments.

IBA 460. Export/Import Management. 3 sem. hrs.
This course includes a thorough examination of the export-import management process and highlights its importance in international business strategy.
Prerequisite(s): IBA 350.

IBA 497. Special Topics: Ind. Study. 3 sem. hrs.

International Honors Program (IHP) Courses

IHP 105. Culture & Human Experience. 3 sem. hrs.
This course develops students' cross-cultural communication skills and the ability to analyze world issues from a variety of cultural perspectives.

IHP 155. Culture and the Human Experience. 3 sem. hrs.
This course develops students' cross-cultural communication skills and the ability to analyze world issues from a variety of cultural perspectives. Freshman Seminar. Equivalent to IHP 105.

IHP 400. Independent Study. 1-6 sem. hr.
Independent study in a subject area chosen in consultation with a qualified faculty member who will supervise the project. A proposal outlining the project must be approved in advance.

Italian (IT) Courses

IT 101. Introductory Italian I. 4 sem. hrs.
Five hours of instruction per week. The course is the first semester of college-level language study. Offered each semester.

IT 102. Introductory Italian II. 4 sem. hrs.
Five hours of instruction per week. The course is the second semester of college-level language study. Offered each semester.

IT 201. Intermediate Italian I. 3 sem. hrs.
Basic grammar review, development of writing skills, and introduction to literature.
Prerequisite(s): IT 102.

IT 202. Intermediate Italian. 3 sem. hrs.
Basic grammar review, development of writing skills, and introduction to literature.

IT 353. Italian Conversation. 3 sem. hrs.
Development of conversational skills through role-playing, oral presentations, and vocabulary building.

IT 356. Adv Grammar Composition. 3 sem. hrs.
A combined writing theory and writing skills course focusing upon more advanced notions of Italian grammar and on the development of techniques for written expression.

IT 361. Intro Romance Linguistic. 3 sem. hrs.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

IT 364. Masterpieces of Italian Lit. 3 sem. hrs.
Study of selected major works of Italian literature in translation without restriction as to literary period or genre.

IT 380. Special Topics. 3 sem. hrs.
The subject matter varies, and includes "Film and Literature" and "Fascism in Film and Literature" with lectures in English. *No prerequisite necessary for courses offered in English. May be repeated for credit.

IT 480. Special Topics. 3 sem. hrs.
The subject matter varies. May be repeated for credit. Offered according to demand.

Japanese (JA) Courses

JA 101. Elementary Japanese I. 4 sem. hrs.
Five hours of instruction per week. Acquisition of elementary Japanese language skills in listening, speaking, reading, and writing.

JA 102. Elementary Japanese II. 4 sem. hrs.
Five hours of instruction per week. A continuation of JA 101.
Prerequisite(s): JA 101.

JA 201. Intermediate Japanese I. 3 sem. hrs.
A continuation of JA 102.
Prerequisite(s): JA 102.

JA 202. Intermediate Japanese II. 3 sem. hrs.
A continuation of JA 201.
Prerequisite(s): JA 201.

JA 301. Third Year Japanese I. 3 sem. hrs.
A continuation of JA 202.

JA 302. Third Year Japanese II. 3 sem. hrs.
A continuation of JA 301.

JA 356. Traditional Japanese Lit Trans. 3 sem. hrs.
Introduction to Japanese literature from the earliest times through the Tokugawa period. No knowledge of Japanese is required.

JA 357. Japanese Literature & Film. 3 sem. hrs.
Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

JA 371. Japanese Culture I. 3 sem. hrs.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include modern history, characteristics of Japanese business, social problems, traditional religious and philosophy of the Japanese people.
Prerequisite(s): JA 102.

JA 372. Japanese Culture II. 3 sem. hrs.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include traditional art forms, Buddhism sculptures, movies, traditional music and theater, subculture and marital arts.
Prerequisite(s): JA 102.

JA 390. Topics Japanese Studies. 3 sem. hrs.
Discussion and research of various topics related to Japanese language/culture. Topics may change each semester, such as KANJI, translation, or traditional and modern Japanese culture and society. With permission of the program director, this course may be applied toward the Japanese minor.

JA 410. 4 Yr Read/Write Japanese. 3 sem. hrs.
A continuation of JA 301 and JA 302 with emphasis on development of reading and writing skills.

JA 411. 4th Year Spoken Japanese. 3 sem. hrs.
A continuation of JA 301 and JA 302 with emphasis on development of listening and speaking skills.

JA 481. Directed Readings. 1-4 sem. hr.

JA 482. Directed Readings. 1-4 sem. hr.

Journalism (JN) Courses

JN 101. Journalistic Principles and Practices. 1 sem. hr.
The role of journalism in a democratic society, emphasizing history, law and ethics. Students are introduced to career options and opportunities for journalism majors and minors. Students start a professional blog, which will be used as their work portfolio as they progress in the department. Required of all majors and minors in the department.

JN 150. Mechanics of Media Writing. 1 sem. hr.
The logic of sentence and paragraph structure in the context of media writing and accuracy with emphasis on grammar, punctuation and word choice. This online course is required for journalism, advertising and public relations majors and minors.

JN 200. Foundations of Journalism. 3 sem. hrs.
Introduction to the concepts, processes and practices of journalism, including news values, writing, design, history, law and ethics. Not required of JN majors and minors but can be an elective. This is a Core Humanities designated course.

JN 261. Visual Journalism. 3 sem. hrs.
This course introduces students to visual concepts used in journalism. Emphasis on using digital still photography and digital videos to communicate information to audiences across media platforms.
Prerequisite(s): JN 101 or JN 200 or APR 221 or APR 231; and JN 150 and MC 101.

JN 311. News Writing and Reporting. 3 sem. hrs.
Fundamentals of newsgathering and newswriting for news and public relations organizations. This course is a prerequisite for all succeeding journalism and PR courses. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): MC 101 and JN 150 one of the following: (JN 101 or JN 200 or APR 231).

JN 312. Editing. 3 sem. hrs.
Preparing copy for publication across media platforms with an emphasis on careful writing, accuracy and presentation. Writing proficiency is required for a passing grade in this W designed course.
Prerequisite(s): JN 261 and JN 311.

JN 315. Advanced News Writing & Reporting. 3 sem. hrs.
Advanced practice of newsgathering and newswriting for specialized topic areas, ranging from hard news stories on topics such as government, education, and the environment to soft news, human interest, and feature stories. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 311.

JN 318. Sports Writing & Reporting. 3 sem. hrs.
Newsgathering and newswriting for sports journalism. Students cover a beat and write both hard news stories (game stories, breaking news) and soft news (human interest and features) about their areas.
Prerequisite(s): JN 311.

JN 320. Intermediate Journalism Design. 3 sem. hrs.
Survey and application of techniques and practices in presenting information visually, including infographics, photojournalism, and design and layout of publications and Web sites.
Prerequisite(s): JN 261 and JN 311.

JN 325. Reporting Writing Across Media. 3 sem. hrs.
Emphasizes process of conceptualizing and executing news and feature content in text, audio and video for multiple media platforms, including print, online, broadcast, mobile and social media.
Prerequisite(s): JN 261 and JN 311.

JN 361. Intermediate Photo Journalism. 3 sem. hrs.
Further instruction in the tools, concepts and practice of using digital still photography and video to communicate information to audiences. Emphasis on storytelling, technical proficiency and specialized techniques.
Prerequisite(s): JN 261 and JN 311.

JN 380. Independent Study. 1-3 sem. hr.
Analysis of current issues and practices in journalism under the supervision of a faculty member. May be repeated for credit provided the topics are different.
Prerequisite(s): JN 311.

JN 382. Internship. 1-3 sem. hr.
Variable credit (1 to 3 hours). Students may take up to 3 hours of internship credit toward their degree. For each credit, students must work 60 hours at a professional media organization under the supervision of a media professional.
Prerequisite(s): JN 311.

JN 411. Depth Reporting & Writing. 3 sem. hrs.
Reporting and writing longer news and feature stories for publication in print and online. Students learn advanced techniques in information gathering, story organization, non-fiction writing and multimedia elements. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 412. Opinion Writing. 3 sem. hrs.
The art and practice of writing editorials, columns and other persuasive forms for print and online. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 415. Advanced Magazine Writing. 3 sem. hrs.
Writing and editing of long-form articles for publication in print and online depth magazines. Students learn advanced narrative non-fiction writing techniques and how to gather information for longer feature stories. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): JN 315 or JN 318.

JN 417. Digital Community Journalism. 3 sem. hrs.
Students produce and publish original articles, photography and multimedia stories for Dateline Alabama, the department's student-run news site covering the campus and Tuscaloosa comunities. Students hone professional journalism skills as editors and producers and work to build professional portfolios.
Prerequisite(s): JN 315 or JN 320 or JN 325 or JN 361.

JN 418. Advanced Sports Writing & Reporting. 3 sem. hrs.
Advanced techniques in reporting and writing for sports media. Students analyze published work, begin their own sports blog and write several articles, including two in-depth pieces.
Prerequisite(s): JN 315 or JN 318.

JN 419. Food Writing & Reporting. 3 sem. hrs.
Conceptualizing, pitching, reporting and writing food journalism. Students read and analyze examples of food news and feature articles. Students produce several short articles and one in-depth piece of food journalism.
Prerequisite(s): JN 315 and JN 318.

JN 426. Advanced Journalism Design. 3 sem. hrs.
Application of graphic design techniques to both print and Web-based publications. Theory and practice of creating and executing layouts and design.
Prerequisite(s): JN 312 and JN 320.

JN 430. Digital Media Workshop. 3 sem. hrs.
Explores and applies media convergence principles and techniques in producing online content. Course emphasizes writing, editing, shooting photos and video and designing for the web and other digital delivery forms. Students produce special digital projects on themed topics.
Prerequisite(s): JN 315 or JN 318 or JN 320 or JN 325 or JN 361.

JN 436. Teaching Of Journalism. 3 sem. hrs.
Introduction to the techniques and practices of teaching scholastic journalism and management of school print, online and broadcast media. Designed for students who wish to teach and advise K-12 newspapers, yearbooks, literary magazines, web sites or radio and television programs.

JN 461. Advanced Photojournalism. 3 sem. hrs.
This capstone photo class is for students interested in a career in photojournalism. Advanced techniques, deadline pressure and problem solving are addressed, with emphasis on producing a professional portfolio of digital still photograhy and video.
Prerequisite(s): JN 361.

JN 491. Special Topics in Journalism. 3 sem. hrs.
Course content varies to explore current topics in journalism. Repeatable for up to 6 credits if the topics are different.
Prerequisite(s): JN 261 and JN 311.

JN 492. International Media Production. 3 sem. hrs.
Capstone course in print and online magazine reporting, writing, photographing and designing in an international setting. Students take on leadership roles associated with producing a magazine and its accompanying Web site. Departmental approval required.
Prerequisite(s): JN 312 and one of the following: JN 315 or JN 318 or JN 320 or JN 361.

JN 499. Journ Issues and Ethics. 3 sem. hrs.
Examination of current issues and ethical practices in the field of journalism. Students complete a major research project on issues and ethics.
Prerequisite(s): Senior Standing
Prerequisite(s) with concurrency: MC 401.

Kinesiology (KIN) Courses

KIN 101. Physical Conditioning. 1 sem. hr.
The purpose of this course is to introduce the student to the knowledge base underlying proper physical conditioning of the body and appropriate techniques for participation.

KIN 102. Horseback Riding. 2 sem. hrs.
The purpose of this course is to provide students with the knowledge and skills needed to participate in horseback riding.

KIN 103. Soccer. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of soccer.

KIN 104. Basketball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in basketball.

KIN 105. Softball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for skilled participation in the sport of softball.

KIN 106. Beginning Golf. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills to participate in a basic game of golf.

KIN 107. Intermediate Golf. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to participate at an intermediate level in the game of golf.

KIN 108. Beginning Tennis. 1 sem. hr.
The purpose of this course is to provide students with the necessary knowledge and skills to motivate participation in tennis.

KIN 109. Intermediate Tennis. 1 sem. hr.

KIN 110. Indoor Rock Climbing. 1 sem. hr.
The purpose of this course is to help students understand and demonstrate proper risk management and safety techniques, as well as proper technical skills, in order to safely enjoy the activity of indoor rock climbing.

KIN 115. Badminton. 1 sem. hr.

KIN 117. Volleyball. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in volleyball.

KIN 120. Aerobics. 1 sem. hr.
This course makes available three different types of aerobics: dance, water, and spinning. Each section is designed to enhance cardiorespiratory fitness through the medium of aerobic dance, aquatic activity, or cycling. The aerobic activity should be selected by section number.

KIN 121. Beginning Social Dance. 1 sem. hr.
The purpose of this course is to introduce the student to the basic dances that are performed in a social situation.

KIN 130. Swim Fitness. 1 sem. hr.

KIN 131. Beginning Swimming. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary for participation in basic aquatic activities.

KIN 132. Intermediate Swimming. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary for participation in more advanced aquatic activities.

KIN 134. Beginning Scuba Diving. 1 sem. hr.
This course is designed to introduce students to basic scuba-diving skills, theory, and equipment.

KIN 135. Advanced Suba Diving. 1 sem. hr.
This course is designed to introduce students to advanced scuba-diving skills, theory, and equipment.

KIN 136. Master's Scuba Diving. 1 sem. hr.
The purpose of this course is to provide knowledge and skills to serve as a means of participation in master level scuba diving activities.
Prerequisite(s): HPL 134 or HPL 135 or KIN 134 or KIN 135.

KIN 138. Lifeguarding. 3 sem. hrs.
The purpose of this course is to prepare the student both mentally and physically to supervise, coordinate, and successfully control an aquatic emergency.

KIN 140. Water Safety Instruct. 3 sem. hrs.
The purpose of this course is to provide knowledge of water safety instruction so that the student will be able to instruct groups and individuals in this discipline.

KIN 145. Beginning Racquetball. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to participate in the game of racquetball.

KIN 153. Judo. 1 sem. hr.

KIN 154. Self Defense for Men. 1 sem. hr.

KIN 155. Self Defense for Women. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills that will enhance the student's ability to defend herself in case of physical or sexual assault as well as to enhance her overall personal safety.

KIN 157. Beg Weight Training. 1 sem. hr.
The purpose of this course is to provide students with the knowledge and skills necessary to design and follow a basic weight-training program.

KIN 167. Running. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary to design and follow a basic running program.

KIN 170. Beginning Karate. 1 sem. hr.
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of karate.

KIN 199. Ecol Appr Hlth & Fitness. 3 sem. hrs.
This introductory course examines the basis for and interrelationships among the six aspects of wellness: social, physical, emotional, intellectual, spiritual, and environmental. The course addresses issues of physical fitness, wellness, and personal safety applicable to the college age group.

KIN 200. Weight Mgt Principles. 3 sem. hrs.
This course is designed around successful weight management concepts and pitfalls. Topics include physical activity, behavior, and lifestyle modification. Hands-on activities include measures of daily energy expenditure, personal fitness, target body weight, and development of a personalized exercise plan.

KIN 262. Advanced Sports Techniques/Fit. 2 sem. hrs.

KIN 295. Workshop Athl Coach Educ. 3-6 sem. hrs.
This flexible and concentrated course allows for focus on selected aspects of coaching.

KIN 300. Intro to Kinesiology. 3 sem. hrs.
A critical analysis of socio-cultural issues of the body throughout history and an in-depth study of physical education, fitness, and sport programs and professions.

KIN 305. Dance & Gymnastics. 2 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in gymnastics and dance and to acquaint them with effective teaching behaviors appropriate for these activities.

KIN 306. Analysis Teaching Movement I. 3 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in invasion, striking/fielding and target games, and acquaint them with effective teaching behaviors appropriate for these same types.

KIN 307. Teach Trk & Fld/Net Game. 2 sem. hrs.
The purpose of this course is to improve students' performance and knowledge of skills and strategies in track and field and net/wall games, and acquaint them with effective teaching behaviors appropriate for these activities.

KIN 310. Teaching Swimming. 2 sem. hrs.
The purpose of this course is to improve students' swimming skills and knowledge of water safety and to acquaint them with effective teaching behaviors appropriate for this activity.

KIN 311. Tch Hlth Related Fitness. 1 sem. hr.
The purpose of this course is to improve students' knowledge of the basic principles of health-related fitness and acquaint them with effective teaching behaviors appropriate for fitness instruction.

KIN 350. Secondary Curriculum. 3 sem. hrs.
The purpose of this course is to provide students with knowledge of current curricular and instructional practices for secondary physical education programming. This course must be taken in conjunction with KIN 351.

KIN 351. Secondary Clinical Experience. 3 sem. hrs.
The purpose of this clinical experience is to provide students with the opportunity to teach secondary students in a public school setting. This course must be taken in conjunction with KIN 350.

KIN 352. Psychology of Coaching. 3 sem. hrs.
This course is designed to introduce students to the psychology of coaching.

KIN 360. Subj Matter Elem Physical Educ. 3 sem. hrs.
Provides knowledge of subject matter for elementary physical education and a comprehensive K-5 curriculum. Concurrent enrollment in KIN 361 is required.

KIN 361. Elem Phys Ed Curr Phil Theory. 3 sem. hrs.
This course is designed to help students improve their abilities to teach elementary physical education and to plan and reflect on lessons, units and a comprehensive K-5 curriculum. This course must be taken concurrently with KIN 360.

KIN 362. Motor Development. 3 sem. hrs.
Study of growth in phylogenetic and ontogenetic sequence, and the motor development sequence across the lifespan; integration of movement skill and knowledge development. A field experience is required.

KIN 364. P E Elem Sch Elem Ed Maj. 3 sem. hrs.
This course is designed to provide students with knowledge of current curricular and instructional practices in elementary physical education and to provide them with opportunities to practice-teach in a public-school setting.
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 380 and CEE 401 and CEE 495.

KIN 365. Applied Biomechanics. 3 sem. hrs.
Review of basic anatomy, especially the muscular system, and examination of the relationship of fundamental laws of physics to human movement. Includes mechanical principles of skill instruction and analysis.
Prerequisite(s): BSC 215 or BSC 216.

KIN 366. Evaluation and Measurement. 3 sem. hrs.
Study of the administration and evaluation of test batteries in physical education, fitness management, and personal training.

KIN 367. Training Champion Athletes. 1 sem. hr.

KIN 370. Coaching Soccer. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of soccer.

KIN 380. Coaching Officials. 3 sem. hrs.
The purpose of this course is to help students understand and demonstrate various aspects of sports officiating. To convey knowledge of basic rules in specific sport activities and also gain experience teaching sport rules to perspective officicals.

KIN 381. Coaching Football. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach football.

KIN 382. Coaching Basketball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of basketball.

KIN 383. Coaching Baseball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of baseball.

KIN 384. Coaching Track and Field. 3 sem. hrs.

KIN 386. Coaching Volleyball. 3 sem. hrs.
This course is designed to provide students with the skills and knowledge to coach the game of volleyball.

KIN 387. Field Experience-Disability Sport. 1-3 sem. hr.
Supervised professional experience in a fitness or related setting; observation and participation under the direction of a professional at the site.

KIN 388. Professional Development in Fitness. 3 sem. hrs.
In addition to supervised professional experience in fitness through observation/participation under the direction of a professional within the community, students will learn valuable professional development tools such as writing a resume, cover letter, and thank you letter, as well as preparing for a professional interview.

KIN 390. Sports Workshop. 3 sem. hrs.

KIN 420. Issues in Athletics Coaching. 3 sem. hrs.
This course is designed to examine current issues, controversies, trends, and problems in the field of coaching.

KIN 464. Admin Phys Educ & Sport. 3 sem. hrs.
Organization and administration of health, physical education, and athletic programs for elementary and secondary schools.

KIN 468. Adapted Physical Education. 3 sem. hrs.
The course includes basic information on disability sport and physical education programs; roles of various service agencies and organizations; state and federal legislation; and inclusion strategies. A clinical experience is required. Writing proficiency within this discipline is required for a passing grade in this course.

KIN 487. Physical Educ Teach Pract. 3 sem. hrs.
This course is designed to provide students with the knowledge and skills to implement additional curricular models at both the elementary- and secondary-school levels.
Prerequisite(s): Admission to Teacher Education Program.

KIN 488. Intern Exer-Sport Science. 3-12 sem. hrs.
Directed internship in an area of specialization, completed in cooperation with a community agency or business, clinical, or other appropriate organization. Observation and on-the-job experience through direct participation in ongoing programs.

KIN 489. Clinic Exper In Coaching. 1-6 sem. hr.

KIN 491. Sport Exercise & Social Scienc. 3 sem. hrs.
This course explores the major issues that occupy social sciences involved in the study of sport and exercise. Writing proficiency within this discipline is required for a passing grade in this course.

KIN 492. Physiology of Exercise. 3 sem. hrs.
This course examines the human physiological response to exercise.
Prerequisite(s): BSC 215 or BSC 216.

KIN 493. Fit Apprsl Exer Prescrip. 3 sem. hrs.
A study of the application of exercise testing and prescription principles to apparently healthy and diseased populations. Successful leadership, programming, and management principles for fitness settings will also be examined.
Prerequisite(s): KIN 492.

KIN 496. Independent Study. 1-6 sem. hr.
The purpose of this course is to provide the student an opportunity to further develop their skills/knowledge/instructional techniques in the area of kinesiology.

KIN 497. Internship Phys Education. 3-12 sem. hrs.
Prerequisites: Senior standing and admission to the Teacher Education Program, KIN 350, KIN 351, KIN 360, KIN 361, KIN 487, a minimum GPA of 2.5 for all work attempted, and a minimum GPA of 2.5 in the major. Full-time supervised teaching experience in elementary and secondary schools. Includes a weekly one-hour seminar. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.

Korean (KOR) Courses

KOR 101. Elementary Korean. 3 sem. hrs.
Contemporary Korean speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

KOR 102. Elementary Korean. 3 sem. hrs.
Contemporary Korean speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 101.

KOR 201. Intermediate Korean. 3 sem. hrs.
Continuation of Korean language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 102.

KOR 202. Intermediate Korean. 3 sem. hrs.
Continuation of KOR 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 201.

Latin (LA) Courses

LA 101. Elementary Latin I. 3 sem. hrs.
Beginning fundamentals of Latin grammar and syntax. Offered in the fall semester.

LA 102. Elementary Latin II. 3 sem. hrs.
Continued study of the fundamentals of Latin grammar and syntax. Offered in the spring semester.
Prerequisite(s): LA 101.

LA 201. Intermed Latin Read I. 3 sem. hrs.
Introduction to and practice at reading Latin literature. Offered in the fall semester.
Prerequisite(s): LA 102.

LA 202. Intermed Latin Read II. 3 sem. hrs.
Selected readings from Latin literature. Offered in the spring semester.
Prerequisite(s): LA 201.

LA 301. Advanced Reading in a Roman Author or Genre. 3 sem. hrs.
Readings in Latin literature to the time of Julius Caesar. Offered in the fall semester.

LA 302. Advanced Reading in a Roman Author or Genre. 3 sem. hrs.
Selected readings in later Roman literature. Offered in the spring semester.

LA 490. Readings In Latin Literature. 3 sem. hrs.
The subject matter varies. May be repeated for credit. Offered according to demand.
Prerequisite(s): LA 301 or LA 302.

Legal Studies (LGS) Courses

LGS 200. Legal Environmt Business. 3 sem. hrs.
Environmental approach to the study of law, including the way the law interrelates, philosophy of law, and sources of law. The relationship among law, business, political influences, and the society is treated.

LGS 350. Crimes Torts Bus Envirn. 3 sem. hrs.

LGS 402. Government & Business. 3 sem. hrs.
This course is designed to give students some information about the regulations which government may or may not impose upon business, leaving students free to form their own conclusions as to their wisdom, adequacy, and practicability. Survey of basic constitutional principles and legal aspects of recent federal legislation affecting business and antitrust laws.
Prerequisite(s): LGS 200 and EC 111.

LGS 403. Estates & Trusts. 3 sem. hrs.
This course treats principles and rules of law relating to wills and inheritances; how the estates of deceased persons are administered; why and how trusts are created and operated; and the duties and settlement of executors, administrators, and trustees.
Prerequisite(s): LGS 200.

LGS 407. Real & Personal Propty. 3 sem. hrs.
This course is concerned with the conveyance of property, deeds, covenants, condemnation of property, rights of landlord and tenant, and bailments.
Prerequisite(s): LGS 200.

LGS 472. Legal Aspect Hlth Care. 3 sem. hrs.
Examines aspects of the law that are of most concern to individuals in health care management, including administrative law, hospital law, welfare law, public health law, and licensing and legislation.
Prerequisite(s): LGS 200 and HCM 370.

LGS 497. Special Topics. 1-3 sem. hr.
Prerequisite(s): LGS 200.

Library and Information Studies (LS) Courses

Management (MGT) Courses

MGT 300. Org Theory & Behavior. 3 sem. hrs.
A course designed to help students understand organizational theory, interpersonal communication, and other behavioral science concepts and then integrate them into managerial tools for effective use in business, industry, and public-sector organizations.
Prerequisite(s): MATH 121 or MATH 125 or MATH 126; and ST 260 and LGS 200 and EC 110 and AC 210.

MGT 301. Intro Human Resource Mgt. 3 sem. hrs.
Introductory course surveying problems and issues in labor economics, personnel management, and labor relations. Emphasis is placed on public policies affecting management and union representatives and on the role of the human resources manager in the organization.
Prerequisite(s): MGT 300 and EC 110 and EC 111.

MGT 320. Leadership. 3 sem. hrs.
This course focuses on the interpersonal dynamics of managers, professionals, and entrepreneurs at work. Case analysis and simulation of problem solving and decision making are used to develop insight into human relations in organizations as well as to develop the personal and interpersonal skills needed in leadership roles.
Prerequisite(s): MGT 300.

MGT 322. Effective Negotiations. 3 sem. hrs.
Negotiations are pervasive in all aspects of life. Having the ability to effectively negotiate can provide you with a competitive advantage in many situations. This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.
Prerequisite(s): Junior class standing and enrollment in College of Commerce and Business Administration, OR by permission of instructor.

MGT 341. Business Ethics. 3 sem. hrs.
Systematic examination of current issues and problems in the organization and management of business enterprises. The course combines readings, cases, and lectures that focus on the roles, activities, and ethical choices of managers as they direct organizations within the context of our contemporary society.
Prerequisite(s): MGT 300 minimum grade of C-.

MGT 386. Foundations of Entrepreneurshi. 3 sem. hrs.
Emphasis is on how to manage a small company and operate it profitably. Special attention is given to the problems of different types of small enterprises, such as those in retail, service, franchise, and manufacturing industries.
Prerequisite(s): MGT 300.

MGT 406. Family Business Management. 3 sem. hrs.
MGT 406 will offer: 1) several perspectives on family business and 2) address the challenges and opportunities unique to the management of family businesses.
Prerequisite(s) with concurrency: MGT 386.

MGT 412. Mgt Presentations. 3 sem. hrs.
Instruction and practice of information presentation in a business environment. Topics include conference room presentations, media briefings, team presentations, television interviews and audiovisual development.
Prerequisite(s): GBA 300 and MGT 300.

MGT 415. Ethics is Leadership Decision-Making: A Descriptive Functional Behavioral Analytic. 3 sem. hrs.
Using applied descriptive functional behavioral analytic techniques, students sequentially analyze, decompose, and develop models to explain unethical leadership decision making in organizations using quasi-naturalistic behavioral observation.
Prerequisite(s): MGT 300 or MGT 320 or MGT 341.

MGT 420. Organizational Change. 3 sem. hrs.
An investigation of structural, technological, humanistic, and task approaches to organizational change; the resistance to change; and the implementation of change in business and in private- and public-sector organizations.
Prerequisite(s): MGT 300 and MGT 301.

MGT 421. Corporate Entp. & Innovation. 3 sem. hrs.
This course uses a case analysis method to examine the development and implementation of managerial actions in modern organizations.
Prerequisite(s): MGT 300.

MGT 422. Leadership Communication. 3 sem. hrs.
Analysis of the role of communication in effective leadership for all management situtations.

MGT 431. Human Resources Selection and Placement. 3 sem. hrs.
The main purpose of this course is to provide students with detailed knowledge of an organization's staffing function. The knowledge includes, but is not limited to, understanding how to conduct a job's analysis, how to write a job description and the specifications of that job, how to choose appropriate recruitment and selection methods, how to structure and execute valid job interviews, how to write job offer letters, and how to evaluate the overall effectiveness of an organization's staffing strategy and policies.
Prerequisite(s): MGT 301.

MGT 432. Employee Relations. 3 sem. hrs.
A critical examination of the factors that condition employee relations in both the private and public sectors.
Prerequisite(s): MGT 300 and MGT 301.

MGT 433. Compensation and Performance Management. 3 sem. hrs.
This course will enable students to identify the components of a total reward system, understand the major compensation system design issues, become familiar with the provisions of the FLSA, and understand the relationship between compensation and performance management.
Prerequisite(s): MGT 301.

MGT 434. Training and Development. 3 sem. hrs.
This course examines both the theory and practice of training and development in organizations. Topics covered will include organizational, task, and individual needs assessment, training design and implementation, and evaluation techniques. This course will draw upon research and theory from management, psychology, and other relevant domains. Application of the text/lecture materials will be reinforced through class exercises, group assignments, guest lectures, and presentations.
Prerequisite(s): MGT 300, MGT 301.

MGT 437. Strategic Human Resource Management. 3 sem. hrs.
This course is designed to provide a broad, strategic overview of human resource management with practical applications. It will define and describe strategic HRM and identify the specific HR issues within organizational strategies, goals, and tasks. This class is designed to prepare students to sit for the SHRM college level certification exam.
Prerequisite(s): MGT 301 and three of the four HR concentration classes (MGT 431, MGT 432, MGT 433, MGT 434).

MGT 452. Management Communication Projects. 3 sem. hrs.
Demonstrate communication effectiveness in a business context by completing team project for a client, using written, oral, visual,and interpersonal skills.
Prerequisite(s): GBA 300 and MGT 300.

MGT 482. New Venture Development. 3 sem. hrs.
This course provides an opportunity to develop a business plan for a new venture or for expansion of an existing company. Students are expected to acquire skills in evaluating business ventures; to learn alternative financing sources; to develop ideas for differentiating products; and to develop an understanding of what is required to harvest the profits of a growing business.
Prerequisite(s): MGT 300.

MGT 483. Technology Commercialization. 3 sem. hrs.
This course focuses on getting ideas, innovations, or discoveries into the marketplace in the form of products or services, or into the value chain at any step, to increase the competitive advantage of the enterprise. The course offers an overview of the technology commercialization process. But more importantly, the course provides opportunities to assess technologies for commercialization. Indeed, the most useful description of the course is as a practicum in technology assessment. Throughout the course, students are engaged in technology assessment projects. This course links the activities of research and development, product and process design, technology transfer and marketing, new venture financing, technology entrepreneurship and intrapreneurship, protection of intellectual property, and management.
Prerequisite(s): MGT 386, or permission of the instructor.

MGT 486. Small Business Consultng. 3 sem. hrs.
This course is designed to offer education and training in the art of management consulting as it applies to smaller firms. The overall purpose of the course is the acquisition of knowledge and skills that will enable students to provide management advice to entrepreneurs and businesspersons to improve the performance of smaller organizations.
Prerequisite(s): MGT 300.

MGT 491. Independent Study. 1-3 sem. hr.
The course offers students interested in management the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with the advice and permission of the appropriate instructor and the approval of the program chairperson.
Prerequisite(s): MGT 300.

MGT 492. Internship In Hrm. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MGT 300.

MGT 497. Special Topics. 3 sem. hrs.

Management Information Systems (MIS) Courses

MIS 120. Business Programming I. 3 sem. hrs.
First computing class designed for students that will be majoring in Management Information Systems.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 126 or MATH 146.

MIS 200. Fundamentals Mgt Info Systems. 3 sem. hrs.
Business process coordination and decision making through the use of information technology will be explored, emphasizing IT use by organizations in increasingly global markets.
Prerequisite(s): CS 102 or PLCS 380.

MIS 295. Business Analysis Project Mgt. 3 sem. hrs.
An introduction to the fundamental concepts of business-process analysis, team-based project management, and use of information technology resources to develop information systems. Emphasis is placed on creating business value in systems ranging from transactional processing to e-commerce.
Prerequisite(s): CS 120 with concurrency OR CS 150 with concurrency
Prerequisite(s) with concurrency: CS 150 or CS 120.

MIS 310. Applied Organizational Information Technologies. 3 sem. hrs.
Students learn the IS development process and how to leverage underlying organizational IT components. Provides non-technology major students with the essentials of how IS are developed and used. Emphasis is on databases, data networks, mobile computing, and decision support.
Prerequisite(s): CS 102 or CS 120.

MIS 320. Applicatn & Informtn Architect. 3 sem. hrs.
The study and application of software engineering, application patterns, and file structures. Students design, construct, and test software structures for effective information management.
Prerequisite(s): MIS 295 and CS 220.

MIS 330. Database Administration. 3 sem. hrs.
Logical data modeling, RDBMS, and their use in the business enterprise are presented. Topics include anomalies/normalization, database-connections performance, n-tier architecture, query operations, stored processes and integrity triggers, and Web applications.
Prerequisite(s): MIS 295; and CS 120 or CS 150.

MIS 340. Data Com in a Global Environ. 3 sem. hrs.
Enabling international exchange of digital data to support business operations. Cultural, legal, security and operational requirements coupled with international standards evaluated in multiple network architectural configurations supporting transactional knowledge workers, e-business and e-commerce applications.
Prerequisite(s): MIS 200 or MIS 295; and CS 120 or CS 150.

MIS 430. Systems Analysis & Design I. 3 sem. hrs.
Intermediate-level skills in systems analysis and design techniques are presented. Emphasis is placed on systems development and delivery tools, methods, standards, and processes.
Prerequisite(s): MIS 320 and MIS 330
Prerequisite(s) with concurrency: MIS 450.

MIS 431. Systems Analysis & Design II. 3 sem. hrs.
Advanced-level skills in systems analysis and design techniques are presented. Emphasis is placed on enterprise-level systems development, creation of tailored methodologies, creation of architectural standards, metrics, and business strategy alignment.
Prerequisite(s): MIS 340 and MIS 430 and MIS 450
Prerequisite(s) with concurrency: MIS 451.

MIS 440. Decision Support Systems. 3 sem. hrs.
This course assesses information and process requirements to support business decisions in organizations. Students conceptualize, design, develop, and deliver model-based information systems designed to support effective managerial decision making.
Prerequisite(s): MIS 200 or MIS 295.

MIS 450. Systems Constructn Implemtn I. 3 sem. hrs.
Leveraging software development skills from prior MIS and CS courses, students construct, test, and deploy IT-based business solutions.
Prerequisite(s): MIS 320 and MIS 330
Prerequisite(s) with concurrency: MIS 430.

MIS 451. Systems Constructn Implemtn II. 3 sem. hrs.
Development of advanced software engineering skills to develop, deploy, test, document, and assess large-scale IT-based business solutions. Conversion, migration, training, maintenance, and operations plans and budget are emphasized.
Prerequisite(s): MIS 340 and MIS 430 and MIS 450
Prerequisite(s) with concurrency: MIS 431.

MIS 491. Independent Study. 1-3 sem. hr.

MIS 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services. Students may earn degree credit for only one internship (492).

MIS 497. Special Topics. 3 sem. hrs.
Special topics in MIS.

Marine Science (MS) Courses

MS 304. Marine Geology. 4 sem. hrs.
Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

MS 306. Marine Biology. 4 sem. hrs.
Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

MS 321. Marine Tech Methods I. 2 sem. hrs.

MS 398. Undergraduate Research. 1-6 sem. hr.

MS 400. Coastal Birds of Alabama. 2 sem. hrs.
This course is an introductory level course to coastal avian fauna. Study of coastal birds with an emphasis on various nesting sites and nesting behavior. This course includes identification, population dynamics and behavior of coastal birds. Lectures emphasize functional ecology specifically nesting biology of numerous species found along Alabama's coastal region. Topics include migration, mechanics of flight, breeding biology, and foraging. This course is a field-based course with an emphasis on breeding biology and behavior and introduction to bird identification.
Prerequisite(s): BSC 114 or BSC 385.

MS 401. Coastal Geomorphology. 2 sem. hrs.
This course is an introduction to coastal sediment processes and applied coastal geomorphology. Waves and other coastal hydrodynamics, sediment transport, and interaction between natural process and man's activities such as dredging, jetties, and beachfills will be studied. The barrier island coast of Alabama will be used extensively in field trip investigations of these processes. This course is designed for undergraduate and graduate students in the physical and biological marine sciences.
Prerequisite(s): BSC 114 or GEO 101.

MS 408. Marine Invertebrate Zoology. 4 sem. hrs.
Comparative study of the major marine invertebrate phyla, protozoa through protochordates. The focus is on their morphology, physiology, ecology, and phylogenetic relationships.

MS 411. Marsh Ecology. 4 sem. hrs.
Study of the floral and faunal elements of various marine marsh communities. The interaction of physical and biological factors is emphasized. Field trips acquaint students with regional examples of marsh types.

MS 419. Marine Ecology. 4 sem. hrs.
Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems.

MS 433. Coastal Zone Management. 2 sem. hrs.
Review of ecological features, physical management policies for coastal communities, and a description of relevant federal and state programs.

MS 448. Intro Oceanography. 4 sem. hrs.
A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and their relation to biological systems.

MS 452. Marine Vertebrate Zoology. 4 sem. hrs.
Systematics, zoogeography, and ecology of marine vertebrates.

MS 453. Marine Botany. 4 sem. hrs.
Reproduction, taxonomy, systematics, distribution, and ecology of the major marine plant groups.

MS 497. Special Topics. 1-4 sem. hr.
A marine science topic not covered in other courses. The credit hours and format are determined as appropriate to the topic. Offered according to demand and instructor availability.

Marketing (MKT) Courses

MKT 300. Marketing. 3 sem. hrs.
A survey course that describes the nature of domestic and global marketing management. Emphasis is placed on market analysis to include consumer, industrial, institutional, and governmental markets for goods and services. Also emphasized are the marketing management functions of planning, pricing, promoting, and distributing goods and services in business and nonprofit contexts.

MKT 310. Principles of Social Media. 3 sem. hrs.
A survey of interactive, electronic media and technology that enable organizations to 1) acquire products, services and materials from suppliers, 2) market goods and services to customers, 3) allow members of the organization to communicate with each other, and 4) monitor the external environment. Students develop e-commerce-related skills to design and execute a firm's marketing efforts, including Web project management, electronic market development and management, Web-enabled selling, and other emerging areas of marketing.
Prerequisite(s): MKT 300.

MKT 313. Consumer Behavior. 3 sem. hrs.
Analysis of the basic processes underlying buyer behavior. Various factors are examined, including external influences (e.g., culture, reference groups, family) and internal influences (e.g., perceptions, attitudes, personality). Primary emphasis is on final consumers with a secondary emphasis on the external and internal influences affecting organizational buyers.
Prerequisite(s): MKT 300.

MKT 321. Retail Management. 3 sem. hrs.
Analysis of existing generalizations and principles related to the economic and social role of retailing; competitive strategies; efficiency in retailing; and essential concepts for retail management.
Prerequisite(s): MKT 300.

MKT 334. Impr. Mgt. Beh. Lab. 1 sem. hr.
The class teaches students how to effectively apply the persuasion and impression management theory so that they can effectively influence individuals and others.
Prerequisite(s) with concurrency: MKT 300.

MKT 337. Personal Selling. 3 sem. hrs.
Introduction to successful selling practices and principles through presentation, discussion, role playing, and workshops. Includes principles of prospecting, establishing rapport, generating curiosity, being persuasive, creating desire, handling objections, and closing.
Prerequisite(s): MKT 300.

MKT 338. Sales Management. 3 sem. hrs.
This course builds on the basic sales process taught in Personal Selling (MKT337) by focusing on Account Management and Team Management. Through class discussion and an Account Plan project, students gain an understanding of customer partnerships, business management, and sales team development. The concept that sales managers must both implement and facilitate corporate marketing plans is pervasive through the course.
Prerequisite(s): MKT 300 and MKT 337.

MKT 371. Site Select Mkt Analysis. 3 sem. hrs.
Prerequisite(s): MKT 300.

MKT 376. Services Marketing. 3 sem. hrs.
To understand the basic concepts and principles surrounding services marketing and management including processes, people, and physical evidence.
Prerequisite(s): MKT 300.

MKT 385. Marketing Information Systems. 3 sem. hrs.
Introduces students to the types of information systems used in marketing as well as develop the basic analytical skills necessary to use the output from such systems. The course has a decision-making focus and will survey the tools available for marketing decision making. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 and MATH 121; or MATH 115 and MATH 125; or MATH 121; or MATH 125; or MATH 126; or MATH 131; and EC 110 and EC 111 and CS 102 and AC 210 and ST 260 or ST 250 and ST 251; and LGS 200.

MKT 410. Managing Innovation. 3 sem. hrs.
Systematic examination of product policy and of the major concepts, methods, and strategies involved in decision making in the course of developing new products. Techniques and criteria used to identify and implement new products and services are examined in depth. Consideration is given to issues and strategies involved in the management of mature products.
Prerequisite(s): MKT 300.

MKT 411. Supply Chain Management. 3 sem. hrs.
Supply chain management encompasses the design and administration of the systems of suppliers and distributors that collectively provide for the exchange of title, physical movement, and storage activities in marketing. The scale and complexity of supply chain relationships are escalating as firms strive to enhance interorganizational effectiveness and efficiency. This course examines the role of manufacturers and intermediaries in channel strategies and the scope, methods, problems, and opportunities of systemic supply chain coordination.
Prerequisite(s): MKT 300.

MKT 422. Supply Chain Strategy. 3 sem. hrs.
Logistics is a system-based concept requiring the effective coordination of the flow of materials and goods from the point of origin to the end user. This course explores the key marketing tasks necessary to achieve an efficient logistics network: transportation, warehousing and materials handling, inventory management, forecasting, information and order processing, and simulation/modeling.
Prerequisite(s): MKT 300 and MKT 411.

MKT 437. Advanced Selling. 3 sem. hrs.
The purpose of the course is to enhance communication and selling skills. Focus will be on the account managment principles and the processes used to develop account and long term relationships with major accounts. Live selling situations will be used to practice skills.
Prerequisite(s): MKT 337.

MKT 439. Key Account Management. 3 sem. hrs.
To understand and practice the science of managing customer lifecycles; including account sourcing, analysis, categorization, strategic planning, tactical development and implementation.
Prerequisite(s): MKT 337 Personal Selling.

MKT 444. Promotional Management. 3 sem. hrs.
Intensive investigation of underlying ideas, principles, and concepts that may be used to inform consumers of the availability and attributes of products and services. The course includes a comprehensive overview of promotional and sales management activities and tactics.
Prerequisite(s): MKT 300.

MKT 460. Export/Import Management. 3 sem. hrs.
Course includes a thorough examination of export-import management processes and highlights the importance of management in international business strategy.
Prerequisite(s): MKT 300.

MKT 473. Marketing Research. 3 sem. hrs.
Designed to prepare the student to be an informed, effective user of marketing research. Provides an overview of research techniques available for collecting information to answer specific research questions. Therefore, the orientation of the course is managerial.
Prerequisite(s): MKT 300.

MKT 476. Services Management. 3 sem. hrs.
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 300
Prerequisite(s) with concurrency: MKT 376.

MKT 477. Advanced Services Marketing. 3 sem. hrs.
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 376, MKT 476.

MKT 487. Strategic Marketing. 3 sem. hrs.
Analysis of marketing problems as they relate to the managerial functions of planning, organizing, and controlling marketing.
Prerequisite(s): MKT 313
Prerequisite(s) with concurrency: MKT 473.

MKT 488. Marketing Field Study. 3 sem. hrs.
Working with a client firm, students apply (in a practical setting) the skills and knowledge they have acquired and build new skills in project management.
Prerequisite(s): MKT 300.

MKT 491. Independent Study. 1-3 sem. hr.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MKT 300.

MKT 492. Internship. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 and LGS 200 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251.

MKT 493. Special Topics Marketing. 3 sem. hrs.
Courses that offer the faculty a chance to present topics of interest to themselves and to marketing students.
Prerequisite(s): MKT 300.

Mass Communication (MC) Courses

MC 101. Intro To Mass Communic. 3 sem. hrs.
Introduction to the fields of communication, including theory, law and regulation, history, social implications, and mass media operations.

MC 103. Fundamentl Informatn Literacy. 3 sem. hrs.
Information literacy is crucial to being successful in the Information Age. Individuals need to be able to locate, evaluate, and use information effectively and efficiently. Information ethical issues are also important.

MC 401. Mass Comm Law & Regultn. 3 sem. hrs.
Study of laws and regulations affecting the mass media and the fields of mass communication. May be taken for graduate credit.
Prerequisite(s): MC 101.

MC 405. Mass Communctn Ethics. 3 sem. hrs.
Freedoms and responsibilities of mass media practitioners and institutions, explored within the framework of ethical theory. Consideration of values, codes of ethics, moral development, professionalism, institutional constraints, etc., as applied to media of information, persuasion, and entertainment. May be taken for graduate credit.
Prerequisite(s): MC 101.

MC 407. Mass Communic Research. 3 sem. hrs.
Overview and application of the methods used in quantitative and qualitative mass communication research.
Prerequisite(s): MC 101.

MC 409. History Mass Communctn. 3 sem. hrs.
Study of the historical development of mass communication. May be taken for graduate credit. Writing proficiency in this discipline is required for passing this W-designated course.
Prerequisite(s): MC 101.

MC 413. Communication & Diversity. 3 sem. hrs.
Study and analysis of issues of diversity as they relate to groups in society and in mass communication fields. Emphasis is on the mass media's treatment of various groups in society. Writing proficiency in this discipline is required for passing this W-designated course. May be taken for graduate credit.
Prerequisite(s): MC 101.

MC 421. Political Communication. 3 sem. hrs.
The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communications. Writing proficiency in this discipline is a requirement for passing this W-designated course.
Prerequisite(s): MC 101.

MC 425. Media Management. 3 sem. hrs.
The structure and function of media organizations. The decision-making processes inherent in running complex media businesses. Effective leadership styles. Traditional marketing perspectives applied to media. Laws and regulations that affect media management. Writing proficiency in this discipline is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): MC 101.

MC 444. Lobbying. 3 sem. hrs.
A survey of legislative/political techniques and communication strategies and tactics used by corporations, trade associations, and other interest groups to successfully impact federal policymaking.
Prerequisite(s): MC 101.

MC 495. Special Topics. 3 sem. hrs.
Special topics in mass communication theory and research. May be taken for graduate credit.
Prerequisite(s): MC 101.

Mathematics (MATH) Courses

MATH 005. Introductory Algebra. 3 sem. hrs.
Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

MATH 100. Intermediate Algebra. 3 sem. hrs.
Intermediate-level course including work on functions, graphs, linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. The solution of word problems is stressed. NOT APPLICABLE to UA Core Curriculum mathematics requirement. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 190 or higher or ACT2 18 or SAT2 440 or MATH 005.

MATH 110. Finite Mathematics. 3 sem. hrs.
Sets and counting, permutations and combinations, basic probability, conditional probability, matrices and their application to Markov chains, and a brief introduction to statistics. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 250 or higher or ACT2 18 or SAT2 440 or MATH 100.

MATH 112. Precalculus Algebra. 3 sem. hrs.
A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions. Graphs of these functions are stressed. The course also includes work on equations, inequalities, systems of equations, the binomial theorem, and the complex and rational roots of polynomials. Applications are stressed. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): PLMA 310 or higher or ACT2 24 or SAT2 560 or MATH 100.

MATH 113. Precalculus Trigonometry. 3 sem. hrs.
Continuation of MATH 112. The course includes study of trigonometric functions, inverse trigonometric functions, trigonometric identities and trigonometric equations. Complex numbers, De Moivre's Theorem, polar coordinates, vectors and other topics in algebra are also addressed, including conic sections, sequences and series. Grades are reported as A, B, C or NC (No Credit).
Prerequisite(s): MATH 112.

MATH 115. Precalc Algebra & Trig. 3 sem. hrs.
Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates. Grades are reported as A, B, C, or NC (No credit).
Prerequisite(s): PLMA 380 or higher or ACT2 29 or SAT2 650.

MATH 121. Calculus & Applications. 3 sem. hrs.
A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration.

MATH 125. Calculus I. 4 sem. hrs.
This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus. There is also a brief review of selected precalculus topics at the beginning of the course. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): MATH 113 and MATH 112; or MATH 115.

MATH 126. Calculus II. 4 sem. hrs.
This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L'Hopital's Rule, improper integrals, parametric equations, polar coordinates, conic sections and infinite series.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

MATH 145. Honors Calculus I. 4 sem. hrs.
Honors sections of MATH 125.

MATH 146. Honors Calculus II. 4 sem. hrs.
Honors sections of MATH 126.
Prerequisite(s): MATH 125 or MATH 145.

MATH 208. Number And Operations. 3 sem. hrs.
Arithmetic of whole numbers and integers, fractions, proportion and ratio, and place value. Class activities initiate investigations underlying mathematical structure in arithmetic processes and include hands-on manipulatives for modeling solutions. Emphasis is on the explanation of the mathematical thought process. Students are required to verbalize explanations and thought processes and to write reflections on assigned readings on the teaching and learning of mathematics.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112.

MATH 209. Geometry & Measurement. 3 sem. hrs.
Properties of two- and three-dimensional shapes, rigid motion transformations, similarity, spatial reasoning, and the process and techniques of measurement. Class activities initiate investigations of underlying mathematical structure in the exploration of shape and space. Emphasis is on the explanation of the mathematical thought process. Technology specifically designed to facilitate geometric explorations is integrated throughout the course.
Prerequisite(s): MATH 208.

MATH 210. Data Analysis Probabil Stats. 3 sem. hrs.
Data analysis, statistics, and probability, including collecting, displaying/representing, exploring, and interpreting data, probability models, and applications. Focus is on statistics for problem solving and decision making, rather than calculation. Class activities deepen the understanding of fundamental issues in learning to work with data Technology specifically designed for data-driven investigations and statistical analysis is integrated throughout the course.
Prerequisite(s): MATH 208 or MATH 209.

MATH 227. Calculus III. 4 sem. hrs.
This is the third of three courses in the basic calculus sequence. Topics include: vector functions and motion in space; functions of two or more variables and their partial derivatives; and applications of partial derivatives (including Lagrange multipliers), quadric surfaces, multiple integration (including Jacobian), line integrals, Green's Theorem, vector analysis, surface integrals and Stokes' Theorem.
Prerequisite(s): MATH 146 or MATH 126 or MATH 132.

MATH 237. Introduction to Linear Algebra. 3 sem. hrs.
Fundamentals of matrices and vectors in Euclidean space. Topics include solving linear systems of equations, matrix algebra, inverses, determinants, eigenvalues and vectors. Also covers the basic notions of vector space, subspace,linear independence, basis, dimension, linear transformation, range, and null-space. Use of mathematics software is an integral part of the course.
Prerequisite(s): MATH 126 or MATH 146.

MATH 238. Appld Diff Equations I. 3 sem. hrs.
Introduction to analytic and numerical methods for solving differential equations. Topics include numerical methods and qualitative behavior of first order equations, analytic techniques for separable and linear equations, applications to population models and motion problems; techniques for solving higher order linear differential equations with constant coefficients (including undetermined coefficients, reduction of order, and variation of parameters), applications to physical models; the Laplace transform (including intial value problems with discontinuous forcing functions). Use of mathematics software is an integral part of the course.
Prerequisite(s): MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 227 or MATH 247.

MATH 247. Honors Calculus III. 4 sem. hrs.
Honors sections of MATH 227.
Prerequisite(s): MATH 126 or MATH 132 or MATH 146.

MATH 300. Intro Numerical Analysis. 3 sem. hrs.
Credit will not be granted for both MATH 300 and MATH 411. A beginning course in numerical analysis. Topics include number representation in various bases, error analysis, location of roots of equations, numerical integration, interpolation and numerical differentiation, systems of linear equations, approximations by spline functions, and approximation methods for first-order ordinary differential equations and for systems of such equations.
Prerequisite(s): MATH 227 or MATH 247, and CS 150 or ECE 285 or CBH 101.

MATH 301. Discrete Mathematics. 3 sem. hrs.
An introductory course that primarily covers logic, recursion, induction, modeling, algorithmic thinking, counting techniques, combinatorics, and graph theory.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145.

MATH 302. Topics in Discrete Mathematics. 1 sem. hr.
A supplemental course in discrete mathematics covering select topics of interest in computer science. Topics include graphs and trees, finite state automata and regular expressions, efficiency of algorithms.
Prerequisite(s): MATH 301.

MATH 307. Intro Theory Numbers. 3 sem. hrs.
Divisibility theory in the integers; the theory of congruencies; Diophantine equations; Fermat's theorem and generalizations; and other topics. Usually offered in the spring semester.
Prerequisite(s): MATH 227 or MATH 247.

MATH 343. Appl Diff Equations II. 3 sem. hrs.
Continuation of MATH 238. Topics include series solutions of differential equations, the method of Frobenius, Fourier series, method of separation of variables for partial differential equations, elementary boundary value problems for the Laplace, heat and wave equations, an introduction to Sturm-Liouville boundary value problems, and stability of autonomous systems. Usually offered in the spring semester.
Prerequisite(s): MATH 238.

MATH 355. Theory Of Probability. 3 sem. hrs.
The foundations of the theory of probability, laws governing random phenomena and their practical applications in other fields. Topics include: probability spaces; properties of probability set functions; conditional probability; and an introduction to combinatorics, discrete random variables, expectation of discrete random variables, Chebyshev's Inequality, continuous variables and their distribution functions, and special densities.
Prerequisite(s): MATH 227 or MATH 247.

MATH 371. Advanced Linear Algebra. 3 sem. hrs.
Topics include inner product spaces, norms, self adjoint and normal operators, orthogonal and unitary operators, orthogonal projections and the spectral theorem, bilinear and quadratic forms, generalized eigenvectors, and Jordan canonical form.
Prerequisite(s): MATH 237 or MATH 257.

MATH 382. Advanced Calculus. 3 sem. hrs.
Further study of calculus with emphasis on theory. Topics include limits and continuity of functions of several variables; partial derivatives; transformations and mappings; vector functions and fields; vector differential operators; the derivative of a function of several variables as a linear transformation; Jacobians; change of variables in multiple integrals; line and surface integrals; and Green's, Stokes', and Divergence Theorems.
Prerequisite(s): MATH 227; and MATH 247 or MATH 257; and MATH 257.

MATH 402. History Of Mathematics. 3 sem. hrs.
Survey of the development of some of the central ideas of modern mathematics, with emphasis on the cultural context. Writing proficiency within this discipline is required for a passing grade in this course.

MATH 403. Adv Math Connections & Devlpmn. 3 sem. hrs.
Explore the interconnections between the algebraic, analytic, and geometric areas of mathematics with a focus on properties of various number systems, importance of functions, and the relationship of algebraic structures to solving analytic equations. This exploration will also include the development and sequential nature of each of these branches of mathematics and how it relates to the various levels within the algebra mathematics curriculum.
Prerequisite(s): MATH 237 and MATH 301
Prerequisite(s) with concurrency: MATH 470 or MATH 486.

MATH 404. Topics Math Secondary Teachers. 1 sem. hr.
This is a seminar style course focusing on various mathematical topics related to the high school curriculum. Topics will vary depending upon instructor.
Prerequisite(s): MATH 301.

MATH 405. Geometry For Teachers. 3 sem. hrs.
This course will give an overview of geometry from a modern point of view. Both axiomatic and analytic approaches to geometry will be used. The construction of geometric proofs will play an important role.
Prerequisite(s): MATH 125.

MATH 410. Numerical Linear Algebra. 3 sem. hrs.
Further study of matrix theory, emphasizing computational aspects. Topics include direct solution of linear systems, analysis of errors in numerical methods for solving linear systems, least-squares problems, orthogonal and unitary transformations, eigenvalues and eigenvectors, and singular value decomposition.
Prerequisite(s): MATH 237 or MATH 257.

MATH 411. Numerical Analysis I. 3 sem. hrs.
Credit will not be granted for both MATH 411 and MATH 300. A rigorous introduction to numerical methods, formal definition of algorithms, and error analysis and their implementation on a digital computer. Topics include interpolation, roots, linear equations, integration and differential equations, and orthogonal function approximation.
Prerequisite(s): MATH 237 or MATH 257; and MATH 238; and CS 150 or GES 126.

MATH 419. Introduction to Optimization. 3 sem. hrs.
A one-semester introduction to both linear and nonlinear programming for undergraduate students and non-math graduate students. Emphasis is on basic concepts and algorithms and the mathematical ideas behind them. Major topics in linear programming include the simplex method, duality, sensitivity, and network problems; major topics in nonlinear programming include optimality conditions, several search algorithms for unconstrained problems, and a brief discussion of constrained problems. In-depth theoretical development and analysis are not included.
Prerequisite(s): MATH 237 or MATH 257.

MATH 420. Linear Optimization Theory. 3 sem. hrs.
In-depth theoretical development and analysis of linear programming. Topics include formulation of linear programs, various simplex methods, duality, sensitivity analysis, transportation and networks and various geometric concepts.
Prerequisite(s): MATH 237 or MATH 257.

MATH 421. Non-Linear Optimization Theory. 3 sem. hrs.
In-depth theoretical development and analysis of non linear programming with emphasis on traditional constrained and unconstrained non linear programming methods and an introduction to modern search algorithms.
Prerequisite(s): MATH 237 or MATH 257.

MATH 422. Mathematics For Finance I. 3 sem. hrs.
Topics include the basic no-arbitrage principle, binomial model, time value of money, money market, risky assets such as stocks, portfolio management, forward and future contracts, and interest rates.
Prerequisite(s): MATH 227 or MATH 247 and MATH 355.

MATH 432. Graph Theory & Applictns. 3 sem. hrs.
Survey of several of the main ideas of general theory with applications to network theory. Topics include oriented and nonoriented linear graphs, spanning trees, branching and connectivity, accessibility, planar graphs, networks and flows, matching, and applications.
Prerequisite(s): MATH 237 or MATH 257.

MATH 441. Boundary Value Problems. 3 sem. hrs.
Methods of solving the classical second-order linear partical differential equations: Laplace's equation, the heat equation, and the wave equation, together with appropriate boundary or initial conditions. Usually offered in the fall semester.
Prerequisite: Math 343, or consent of the department.
Prerequisite(s): MATH 343.

MATH 442. Integral Transf & Asympt. 3 sem. hrs.
Complex variable methods, integral transforms, asymptotic expansions, WKB method, Airy's equation, matched asymptotics, and boundary layers.
Prerequisite(s): MATH 441.

MATH 451. Math Stats W/Applictn I. 3 sem. hrs.
Introduction to mathematical statistics. Topics include bivariate and multivariate probability distributions, functions of random variables, sampling distributions and the central limit theorem, concepts and properties of point estimators, various methods of point estimation, interval estimation, tests of hypotheses and Neyman-Pearson lemma with some applications.
Prerequisite(s): MATH 237 and MATH 355.

MATH 452. Math Stats W/Applictn II. 3 sem. hrs.
Further applications of the Neyman-Pearson Lemma, Likelihood Ratio tests, Chi-square test for goodness of fit, estimation and test of hypotheses for linear statistical models, analysis of variance, analysis of enumerative data, and some topics in nonparametric statistics.
Prerequisite(s): MATH 451.

MATH 457. Stochastic Processes I. 3 sem. hrs.
Introduction to the fundamental concepts and applications of stochastic processes: Markov chains, continuous-time Markov chains, Poisson and renewal processes, and Brownian motion. Applications include queueing theory, communication networks, and finance.

MATH 460. Intro Differential Geom. 3 sem. hrs.
Introduction to basic classical notions in differential geometry: curvature, torsion, geodesic curves, geodesic parallelism, differential manifold, tangent space, vector field, Lie derivative, Lie algebra, Lie group, exponential map, and representation of a Lie group. Usually offered in the spring semester.

MATH 465. Intro General Topology. 3 sem. hrs.
Basic notions in topology that can be used in other disciplines in mathematics. Topics include topological spaces, open sets, basis for a topology, continuous functions, seperation axioms, compactness, connectedness, product spaces, quotient spaces.
Prerequisite(s): MATH 486.

MATH 466. Intro Algebraic Topology. 3 sem. hrs.
Homotopy, fundamental groups, covering spaces, covering maps, and basic homology theory, including the Eilenberg Steenrod axioms.

MATH 470. Prin Modern Algebra I. 3 sem. hrs.
A first course in abstract algebra. Topics include groups, permutation groups, Cayley's theorem, finite abelian groups, isomorphism theorems, rings, polynomial rings, ideals, integral domains, and unique factorization domains.
Prerequisite(s): MATH 237 or MATH 257.

MATH 471. Prin Modern Algebra II. 3 sem. hrs.
Introduction to the basic principles of Galois Theory. Topics include rings, polynomial rings, fields, algebraic extensions, normal extensions, and the fundamental theorem of Galois Theory.

MATH 474. Cryptography. 3 sem. hrs.
Introduction to rapidly growing area of cryptography, an application of algebra, especially number theory. Usually offered in the Fall semester.
Prerequisite(s): MATH 307 and MATH 470.

MATH 485. Intro Complex Calculus. 3 sem. hrs.
Some basic notions in complex analysis. Topics include analytic functions, complex integration, infinite series, contour integration, and conformal mappings.

MATH 486. Introduction to Real Analysis I. 3 sem. hrs.
Rigorous development of the calculus of real variables. Topics include topology of the real line, sequences, limits, continuity, and differentiation.
Prerequisite(s): MATH 237 or MATH 257.

MATH 487. Intro to Real Analysis II. 3 sem. hrs.
Riemann integration, introduction to Reimann-Stieltjes integration, series of constants and convergence tests, sequences and series of functions, uniform convergence, power series, Taylor series, and the Weierstrass Approximation Theorem.
Prerequisite(s): MATH 486.

MATH 495. Seminar Directed Reading. 1-3 sem. hr.
Offered as needed.

MATH 499. Undergraduate Research Experience. 1-3 sem. hr.
Independent or collaborative research experience in mathematics.

MATH 5. Introductory Algebra. 3 sem. hrs.
Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

Mechanical Engineering (ME) Courses

ME 121. INTRODUCTION TO MECHANICAL ENGINEERING. 1 sem. hr.
An introduction to the discipline of mechanical engineering and the role of the mechanical engineer, including both mechanical and thermal/fluid stems. Focus is on learning about the discipline through a series of student hands-on activities. Credit will not be given for this course for students who have passed ME 215.
Prerequisite(s): Math 112 or Math 113 or Math 115 or Math 125 or Math 126 or Math 145 or Math 146 or Math 227 or Math 238.
Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238.

ME 203. Engineering Economics. 3 sem. hrs.
Annual cost, present worth, rate of return and benefit-cost methods of determining prospective differences between or among design alternatives. Fixed and variable costs; retirement and replacement problems.
Prerequisite(s): MATH 100.

ME 215. Thermodynamics I. 3 sem. hrs.
Properties of matter; processes in fluids; zeroth; first and second laws; irreversibility.
Prerequisite(s): MATH 126 or MATH 146 or MATH 132.

ME 216. Thermal Engineering Survey. 3 sem. hrs.
Survey of thermal engineering topics for engineers outside mechanical engineering. To include an overview of subjects typically covered in courses about fluid mechanics, thermo-dynamics I and II, and heat transfer. An emphasis is placed on qualitative concepts of transport and conservation as they relate to thermal-fluids in order to increase the understanding of thermal engineering applications.
Prerequisite(s): MATH 126 or MATH 146.

ME 305. Thermodynamics II. 3 sem. hrs.
Thermodynamic cycle analysis, Maxwell relations and development of thermodynamic properties, and thermodynamics of non-reacting and reacting mixtures and chemical equilibrium.
Prerequisite(s): MATH 227 or MATH 247 and ME 215.

ME 308. Propulsion Systems. 3 sem. hrs.
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): ME 305.

ME 309. Heat Transfer. 3 sem. hrs.
Steady and unsteady conduction, convection and radiation heat transfer.
Prerequisite(s): MATH 238 and ME 215 and AEM 311.

ME 349. Engineering Analysis. 3 sem. hrs.
Elements of statistics, matrix algebra, numerical analysis, and partial differential equations applied to engineering problems; includes extensive computer applications. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Math 238 and GES 132 or ENGR 141 or ENGR 103.

ME 350. Static Machine Components. 3 sem. hrs.
The analysis of stresses of machine elements and the topics of fatigue strength, wear and failure criteria. Also includes the design of fasteners covering both bolted and welded joints.
Prerequisite(s): AEM 250 and DR 133 or DR 125 or ENGR 161.

ME 360. Contrl Instrumnt Components. 3 sem. hrs.
Introduction to selection and use of electrical, pneumatic, and other components of mechanical system instrumentation and control. Specific components include modern electrical measurement devices, signal conditioning, force and torque measurement, proximity sensors, AC and DC motors, etc. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250; and ECE 320 or ECE 225.

ME 364. Vehicle Dynamics. 3 sem. hrs.
Dynamics of four-wheeled vehicles, including acceleration and braking performance, road loads, ride comfort, steady-state cornering, suspensions, steering systems, and rollover. Vehicle dynamics system modeling programs are introduced and used for detailed investigations of the effect of system design parameters on performance.
Prerequisite(s): AEM 264.

ME 372. Dynamic Systems. 3 sem. hrs.
An introduction to the modeling, analysis and control of dynamic systems. The course takes the student from initial modeling through analysis of the system response and finally into the control of the system. Specific systems include mechanical devices, electrical circuits, and electromechanical systems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 238 and AEM 264 and ME 349; and ECE 320 or ECE 225.

ME 377. Noise Control. 3 sem. hrs.
Physical properties of noise; hearing and noise criteria measurement techniques; and noise-control fundamentals applied to practical problems.
Prerequisite(s): MATH 238 and PH 106.

ME 383. Modern Manufacturg Processes. 3 sem. hrs.
A survey of classical and modern manufacturing processes. Emphasis is on technical fundamentals and practical applications. Components include geometric and service attributes of manufactured products, metal casting processes, forming processes, machine processes and joining processes. Practical project experience included.
Prerequisite(s): AEM 250 and AEM 251 and DR 125 or ART 131 or ENGR 161.

ME 406. Thermal Power Systems. 3 sem. hrs.
Study of thermal systems emphasizing large power generation systems.
Topics include Rankine and gas turbine cycles, fossil fuels combustion, boiler characteristics, cogeneration, combined cycle plants, environmental effects of power generation, and alternative energy concepts.
Prerequisite(s): ME 305.

ME 407. Heatg Ventilat Air-Condg. 3 sem. hrs.
Fundamentals and practice associated with heating, ventilating and air conditioning; study of heat and moisture flow in structures, energy consumption, human comfort and health; and design of practical systems.
Prerequisite(s): ME 309 and ME 305.

ME 415. Energy Systems Design. 2 sem. hrs.
Techniques of analysis and design of energy systems, including piping networks, heat exchangers and prime movers. Emphasis is on modeling and computational solutions.
Prerequisite(s): ME 309 and ME 305.

ME 416. Energy Conservtn & Manag. 3 sem. hrs.
Analysis of energy systems, including fossil fuels, steam, cogeneration, waste heat recovery, heating, ventilation, air-conditioning, control and energy-management systems. Topics include conservation in electrical load, lighting, building envelope, and insulation; alternative energy sources; economic analysis; energy auditing; and fuel sources and supplies.
Prerequisite(s): ME 309 and ME 305 and ECE 320 or ECE 225.

ME 417. Sustainable Energy. 3 sem. hrs.
Contemporary issues surrounding the challenge of providing energy for societal and economic development are examined. Depletion of fossil fuel resources and the impact of fossil fuel use on the environment and climate are considered. Alternative Sustainable sources of energy production are explored.
Prerequisite(s): ME 215.

ME 418. Combustion Engines. 3 sem. hrs.
Theory, design, and performance of combustion engines; fuels, oxidants, and propellants; and combustion, dissociation, ionization, and engine emissions.
Prerequisite(s): ME 305.

ME 421. Reliability Maint & TPM. 3 sem. hrs.
Measures and methods of reliability engineering, maintainability engineering and total productive maintenance, as used in the system design process.
Prerequisite(s): GES 255 or GES 500.

ME 430. Fuzzy Set Theory & Application. 3 sem. hrs.
This course introduces fuzzy set theory and its engineering applications to upper-class undergraduate students.
Prerequisite(s): GES 400 or GES 500.

ME 441. Intro Biomedical Engineering. 3 sem. hrs.
Introduction to the relationship between engineering and medicine. Modeling musculoskeletal and cardiovascular systems. Review of medical devices such as non-invasive imaging devices, biopotential electrodes and amplifiers, and assistive technology.
Prerequisite(s): MATH 238 and PH 106 and AEM 201.

ME 450. Dynamic Machine Components. 3 sem. hrs.
This course covers the selection and application of machine elements in dynamic systems. Specific components covered include transmission elements (gears and pulleys), mechanisms (linkages and cams), shafting, bearing systems and prime movers.
Prerequisite(s): AEM 264 and ME 350.

ME 460. Thermal Systems Instrumentn. 3 sem. hrs.
Selection and use of pressure, temperature, fluid flow and heat transfer instrumentation. Hands-on experiences with fluid flow, heat transfer, refrigeration and heat engine equipment. Statistical design of experiments. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ME 360 and ME 309.

ME 469. Prod Planning & Contrl. 3 sem. hrs.
Forecasting and estimation, aggregate planning, charts and network models, resource allocation, inventory control, sequencing and scheduling, dispatching, flow control, bills of materials, and requirements planning.
Prerequisite(s): GES 255 or GES 500; and IE 363 or GES 501.

ME 470. Mechanical Vibrations. 3 sem. hrs.
Free and forced vibrations, both undamped and damped, and systems with many degrees of freedom formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): ME 372 and AEM 250.

ME 471. Fundamentl Of Acoustics. 3 sem. hrs.
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements, and the associated instrumentation.
Prerequisite(s): MATH 238 and PH 106 and ECE 225 or ECE 320.

ME 475. Control Systems Analysis. 3 sem. hrs.
Classical and modern feedback-control system analysis; block diagrams, state variables, stability, root locus and computerized analysis. Includes an introduction to modern control techniques.
Prerequisite(s): ME 349 and ME 372.

ME 483. Computer-Aided Manufacturing. 3 sem. hrs.
Introduction and application of several technologies used in computer-aided design/manufacturing; computer-aided design, solid modeling, rapid prototyping, geometric dimensioning and tolerancing, machining process optimization, NC programming CNC machines, software-based product, and process design in machining.
Prerequisite(s): ME 383.

ME 485. Intro to Computer-Aided Design. 3 sem. hrs.
Basics of computer-aided design, including solid modeling, model assembly, structural and thermal analysis, mechanism simulation and parametric/optimization study. Interactive computer programs are used to design and analyze mechanical componens/devices.
Prerequisite(s): AEM 250 and ENGR 161.

ME 489. Mechanical Engg Design I. 3 sem. hrs.
Introduction to concepts and techniques of engineering design with supporting mathematical material. Guest lecturers present professional aspects of engineering. The Capstone Design Project is begun and carried on through ME 490 (ME 489 and ME 490 are taken in consecutive semesters).
Prerequisite(s): ME 350 and ME 309.

ME 490. Mechanicl Engr Design II. 3 sem. hrs.
In this semester-long internship experience, three-student teams serve as consultants to an industrial client. Emphasis is on conducting a professional design study and preparing written and oral presentations of the project.
Prerequisite(s): ME 489.

ME 491. Special Problems. 1-6 sem. hr.
This is a special topics lecture class or an assigned problem class. Credit is based on the amount of work undertaken.

ME 497. Mech Engineerg Project. 1-3 sem. hr.
An individual analytical, experimental or design project. Research on an assigned problem culminates in a required report.

Metallurgical and Materials Engineering (MTE) Courses

MTE 121. Introduction to Materials . 1 sem. hr.
An introduction to the materials science and engineering profession and history. The course includes selected topics useful in the study of metallurgical and materials engineering.

MTE 155. Freshman Seminar. 4 sem. hrs.
This course will provide the science background today's citizens need to understand the problems and limitations society faces with respect to energy resources and the environment. Science concepts will be introduced as needed and within the context of energy, the environment, or materials. Students will be encouraged to critically analyze timely examples of energy usage or environmental problems from the news media. Students will gain an understanding of how engineering and technology, especially the development of new materials, can translate science to practical and beneficial outcomes.

MTE 252. Metallurgical Process Calculations. 3 sem. hrs.
Mathematical quantitative relations of chemical reactions and physicochemical processes; principles of overall mass and energy balances and the application of these principles to metallurgical systems.
Prerequisite(s): CH 102 and MATH 125.

MTE 271. Engineering Materials : Structure and Properties. 3 sem. hrs.
Basic structure of ceramics, alloys, composites, metals, and polymers. Relationships between the structure of materials and their mechanical, electrical, magnetic, thermal, and chemical properties.
Prerequisite(s): CH 101 or CH 117.

MTE 275. Engineering Materials Laboratory. 3 sem. hrs.
Alloy preparation and processing of materials. Materials testing and evaluation, laboratory procedures and techniques, metallography, heat treatment, phase diagrams, hardenability, and mechanical testing. Introduction to technical report writing and application to written laboratory reports.
Prerequisite(s): EN 101
Prerequisite(s) with concurrency: MTE 271.

MTE 353. Transport. 3 sem. hrs.
Definition of viscosity, elements of laminar and turbulent flow, and overall mechanical energy balance. Thermal conductivity, steady and transient conduction problems, forced and natural convection, heat transfer, and radiative heat transfer. Definition of binary diffusivity, convection mass transfer, and mass transfer coefficient. The application of the principles covered in the design of specific metallurgical systems.
Prerequisite(s): MATH 238 and MTE 252
Prerequisite(s) with concurrency: MATH 238.

MTE 362. Thermodynamics Of Materials. 4 sem. hrs.
Thermochemsitry applied to typical metallurgical reactions, graphical representations of equilibria, binary and ternary phase diagrams, hetergeneous equilibrium, behavior of solutions, standard states, and electrochemical thermodynamics.
Prerequisite(s): CHE 254 or MTE 252.

MTE 373. Physical Metallurgy. 4 sem. hrs.
Introduction to the principles of physical metallurgy. Topics include crystal structure, deformation, dislocations, point defects,diffusion, interfaces, nucleation theory, transformation, and growth.
Prerequisite(s): MTE 271 and MTE 362.

MTE 380. Synthesis, Processing and Manufacturing of Materials. 3 sem. hrs.
Detailed study of principal alloy, ceramic, and polymer systems. Evaluation of the effects or processing on selected physical and mechanical material properties. Overview of design fundamentals and examination of selected material/design case studies for manufacturing.
Prerequisite(s): MTE 271.

MTE 412. Polymer Materials Engineering. 3 sem. hrs.
Introduction to the manufacture, processing and applications of organic polymeric materials. The chemistry of polymer manufacture, the molecular structure of polymers, and athe structure-property relationships for thermoplastic and thermosetting polymers are covered.
Prerequisite(s): CH 102.

MTE 416. Fundamentals of Foundry Processing. 4 sem. hrs.
Introduction to the fundamentals of metal casting, including mold materials, molding methods, casting processes, gating and risering of castings, solidification microstructure and casting deflects.
Prerequisite(s): MTE 362 and MTE 380.

MTE 417. Simulation of Casting Processes. 3 sem. hrs.
This course will cover the rationale and approach of numerical simulation techniques, casting simulation and casting process design, and specifically the prediction of solidification, mold filling, microstructure, shrinkage, microporosity, distortion and hot tearing. Students will learn casting simulation through lectures and hands-on laboratory/tutorial sessions.
Prerequisite(s): MTE 416 or permission of instructor.

MTE 439. Metallurgy Of Welding. 3 sem. hrs.
Thermal,chemical, and mechanical aspects of welding using fusion welding processes. The metallurgical aspects of welding, including microstructure and properties of the weld, are also included.
Prerequisite(s): MTE 380 or permission of instructor.

MTE 441. Chemical Metallurgy. 4 sem. hrs.
Application of thermodynamics, fluid flow, and heat and mass transfer to the design and operation of chemical metallurgical processes; roasting, agglomerating, oxidation and reduction reactions, smelting, converting, and refining.
Prerequisite(s): MTE 353 and MTE 362
Prerequisite(s) with concurrency: MTE 443.

MTE 443. Materials Engineering Design I. 3 sem. hrs.
Principles of engineering design. Problem formulation, concept design, configuration design, parametric design, detail design, materials selection, manufacturing process selection, prototyping, project planning and cost analysis, application of computer-based design tools, concepts of shared responsibility, teamwork and communication. Analysis of problems, design and development solutions. Oral presentations and written reports. A project will be assigned. Final project presentations will be evaluated by the MTE faculty.
Prerequisite(s): EC 110, MTE 362, 373, 380
Prerequisite(s) with concurrency: MTE 441 and MTE 481.

MTE 445. Materials Engineering Design II (W). 3 sem. hrs.
Capstone design course. Students work in teams on design projects which involve evaluation of industrial based metallurgical or materials problems and emphasize societal impact. Implementation of design principles and the research plan developed in MTE 443. Interim and final design reviews with oral presentations and written reports. Final project presentation will be evaluated by the MTE faculty.
Prerequisite(s): MTE 416, 441, 443, 455, and 481.

MTE 449. Powder Metallurgy. 3 sem. hrs.
The course will cover the topic of powder metallurgy, describing the various types of powder processing and how these affect properties of the componentss made. Current issues in the subject area, from high production to nanomaterials will be discussed.
Prerequisite(s): MTE 373 and MTE 380.

MTE 450. Plasma Processing of Thin Films. 3 sem. hrs.
This course will cover fundamental technology involved in thin film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed, with special emphasis on sputtering tools. A range of thin film applications will be explored, with examples of magnetics, semiconductor, optical, and medical applications. The fundamentals of process optimization using a Design of Experiments will be taught with a test case of process optimization for the final exam.
Prerequisite(s): PH 106 and CH 102 or permission of instructor.

MTE 455. Mechanical Behavior Of Materials. 4 sem. hrs.
Flow and fracture of solids; uniaxial stress-strain as a reference behavior; theories of terminal stability under impact; monotonic, sustained (creep), and repeated (fatigue) loadings of solids under various states of stress.
Prerequisite(s): AEM 201 or permission of instructor.

MTE 476. Physical Ceramics. 3 sem. hrs.
Topics include ceramic raw materials, refractories, thermal properties, mechanical properties, processing, advanced ceramics, etc.
Prerequisite(s): MTE 353 and MTE 362 and MTE 373.

MTE 481. Analytical Methods For Materials. 4 sem. hrs.
Crystallography, physics of X-rays, diffraction by crystalline materials, applications of X-ray, electron and neutron diffraction, and spectrometric analysis of materials. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MTE 373 or permission of instructor.
Prerequisite(s) with concurrency: MTE 373.

MTE 487. Corrosion Science & Engineering. 3 sem. hrs.
The course is aimed at investigating the underlying fundamental causes of corrosion problems and failures. Emphasis is placed on the electrochemical reactions occurring and the tools and knowledge necessary for predicting corrosion, measuring corrosion rates, and combining these with prevention and materials selection.
Prerequisite(s): MTE 271 and CH 102 or permission of instructor.

MTE 491. Special Problems. 1-3 sem. hr.
An assigned problem is explored individually. Credit is based on the amount of work undertaken.

MTE 492. Special Problems. 1-3 sem. hr.
An assigned problem is explored individually. Credit is based on the amount of work undertaken.

Military Science (MIL) Courses

MIL 101. Beginning Army Fitness. 1 sem. hr.

MIL 102. Beginning Army Fitness Train. 1 sem. hr.

MIL 110. Leadership/Natl Security. 1 sem. hr.

MIL 111. Leadership Application I. 1 sem. hr.

MIL 120. Foundatn Leadershp Team Develm. 1 sem. hr.

MIL 121. Leadership Development. 1 sem. hr.

MIL 201. Int Army Fitness Training. 1 sem. hr.

MIL 202. Intermed Army Fitness Train. 1 sem. hr.

MIL 210. Basic Leadership Skills. 2 sem. hrs.

MIL 211. Basic Leadership Development. 1 sem. hr.

MIL 220. Military Leadership Skills. 2 sem. hrs.

MIL 221. Mil Leadership Mgt Applicn II. 1 sem. hr.

MIL 250. Leader Trng Course Basic Camp. 6 sem. hrs.

MIL 301. Advanced Army Fitness. 1 sem. hr.

MIL 302. Advanced Army Fitness Training. 1 sem. hr.

MIL 310. Small Unit Tactical Leadership. 3 sem. hrs.

MIL 311. Small Unit Leader Appl Lab I. 1 sem. hr.

MIL 320. Advanced Leadership Skills. 3 sem. hrs.

MIL 321. Small Unit Leader Appl Lab II. 1 sem. hr.

MIL 335. American Military Experience. 3 sem. hrs.

MIL 401. Army Fitness Development. 1 sem. hr.

MIL 402. Army Fitness Program Developmt. 1 sem. hr.

MIL 410. Military Science IV. 3 sem. hrs.

MIL 411. Adv Leadership Applicatn Lab I. 1 sem. hr.

MIL 420. Military Science IV. 3 sem. hrs.

MIL 421. Adv Leadersh Applicatn Lab II. 1 sem. hr.

MIL 490. Enhanced Leadership Stdy. 3 sem. hrs.

MIL 492. Design Fitness Program. 1 sem. hr.
Course prepares students to design and implement a rigorous physical fitness program in accordance with U.S. Army standards, focusing on a holistic approach to health and fitness. Offered in fall and spring semesters.
Prerequisite(s): MIL 321 and MIL 311; or MIL 411 and MIL 421.

MIL 493. Risk Management and Safety. 1 sem. hr.
Course prepares students to recognize risk behaviors and situations, plan safe and effective training, and reduce risks both on and off duty with a focus on awareness and prevention. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 494. Academic Mentorship Program. 1 sem. hr.
Course prepares students to design and implement an advising and mentoring program to increase retention of younger peers, focusing on organization and time management. Offerred fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 495. Operations Planning. 1 sem. hr.
Course prepares students to conduct staff estimates, plan training requirements, develop operations orders, and supervise training. Offered fall and spring semesters.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 496. Ethical Foundations. 1 sem. hr.
Prepares students to recognize risk behaviors and situations, plan counseling sessions, make informed referrals to assistance agencies, and improve the quality of life for employees. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

MIL 497. Human Resources Internship. 1 sem. hr.
Prepars students to coordinate personnel actions, prepaare military memoranda, manage databases, and perform clerical duties expected of future officers, Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421.

Modern Greek (MDGR) Courses

MDGR 101. Elementary Modern Greek. 3 sem. hrs.
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

MDGR 102. Elementary Modern Greek. 3 sem. hrs.
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

MDGR 201. Intermed Modern Gr. 3 sem. hrs.
Continuation of modern Greek on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102.

MDGR 202. Intermed Modern Greek. 3 sem. hrs.
Continuation of MDGR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102.

Modern Languages and Classics (MLC) Courses

MLC 155. Freshman Seminar. 3 sem. hrs.

Multiple Abilities Program (MAP) Courses

MAP 301. Professionalism. 3 sem. hrs.
This course is designed as a developmental sequence of integrated themes covering historical foundations of education, educational finance, legal and ethical issues, contemporary issues, and fundamental technology concepts and integrated with MAP 302, MAP 403, MAP 404 and MAP 405.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 302. Professionalism. 3 sem. hrs.
This course continues the developmental sequence of integrated themes from MAP 301. The underpinnings of various school reform efforts and their potential effects on classroom practices are a central focus of the course.

MAP 311. The Learner. 3 sem. hrs.
Integrated with MAP 312, MAP 413, MAP 414, MAP 415, this course is a developmental sequence covering concepts of human development, language development, literacy acquisition, and multiculturalism. A central theme is the development of skill in observing children and understanding their behavior from a developmental perspective. Group projects, independent study, observation, assigned readings, and field activities are part of the course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 312. The Learner. 3 sem. hrs.
Integrated with MAP 311, MAP 413, MAP 414, MAP 415, this course is designed as an integrated, developmental sequence covering human development, language development, literacy acquisition, and multiculturalism, as well as concepts of assessment of the learner. The course includes group projects, independent study, observation, assigned readings, and field activities.

MAP 321. Communicatn/Collaboratn. 3 sem. hrs.
Integrated with MAP 322, MAP 423, MAP 424, MAP 425, this course introduces concepts of cooperative partnerships in school and between home and school as a vehicle for quality educational experiences. Topics include social functions of speech communication; verbal and nonverbal communication; and skills essential for professional communication. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 322. Communicatn/Collaboratn. 3 sem. hrs.
Integrated with MAP 321, MAP 424, MAP 425, and other MAP courses, this course further explores the concept of cooperative partnerships to ensure quality educational experiences for children whose needs vary widely (including those with learning and/or behavior disabilities). Skills essential for professional communication, especially those needed for effective collaboration, are a central theme of the course. Computing proficiency is required for a passing grade in this course.

MAP 331. Facilitating Learning. 3 sem. hrs.
By observing and participating in classrooms, students acquire understanding of pedagogies appropriate for young children. This course is closely related to other MAP "Facilitating Learning" title courses. This course introduces methods of instruction in math, science, literacy, art and social studies. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 332. Facilitating Learning. 3 sem. hrs.
Using observation and study, students in this course learn about effective instruction of children with diverse needs, including those with learning and/or behavior disabilities. The course covers teaching young children science, math, music, literacy (reading, writing, and language arts), and physical education. A central theme of this course (which is integrated with MAP 331, MAP 433, MAP 434, and MAP 435) is use of instructional tactics and strategies to ensure meaningful learning and empowerment of children. Writing proficiency within this discipline is required for a passing grade in this course.

MAP 341. Field Exper/Practicum. 3 sem. hrs.
In this practicum, students complete observation-based research activities in a variety of general and special education classrooms. A variety of practicum experiences with emerging readers is required.
Prerequisite(s): Admission to the Multiple Abilities Program.

MAP 342. Field Exper/Practicum. 3 sem. hrs.
This is the second MAP field experience, and it, too, is integrated with the MAP coursework that precedes and follows it. During the semester month-long practicum, students serve as apprentices in a mentoring teacher’s classroom, engaging in co-planning and co-teaching lessons. They have a variety of practicum experiences with elementary students.

MAP 403. Professionalism. 2 sem. hrs.
This course extends the developmental themes of MAP 302 and is integrated with other MAP courses. Developing a "self as professional" perspective is a central theme of the course.

MAP 404. Professionalism. 3 sem. hrs.
This course extends developmental themes covered in previous "Professionalism" courses. Emphasis is on gathering and analyzing educational data and information in order to make classroom teaching more effective.

MAP 405. Professionalism. 3 sem. hrs.
This course extends developmental themes covered in previous "Professionalism" courses.

MAP 413. The Learner. 2 sem. hrs.
Integrated with MAP 311, MAP 312, MAP 414, MAP 415, and other courses in the MAP program, this course is an integrated, developmental sequence exploring child development during infancy and childhood, motivation theory, paradigms of educational psychology, and talent development.

MAP 414. The Learner. 3 sem. hrs.
The course is integrated with the rest of the MAP curriculum and teaches the theory and practice of the construction of tests for student assessment. Nonbiased assessment and placement of and intervention with culturally/socially/ economically diverse students are emphasized.

MAP 415. The Learner. 3 sem. hrs.
Building on previous MAP courses, this course develops a sophisticated understanding of human development, human learning and language acquisition, and the social context of all of these. Vygotsky's social learning theories and their practical implications for the multiple abilities classroom are a key focus.

MAP 423. Communication And Collaboratn. 1 sem. hr.
Building on previous MAP courses, the course focuses on interpersonal skills needed to communicate effectively with parents through conferencing, notes/letters, and newsletters about curriculum topics, themes, classroom events and children's work.

MAP 424. Communicatn/Collaboratn. 3 sem. hrs.
Building on previous MAP courses, the course focuses on planning and conducting conferences to establish, communicate, and achieve the goals and essential characteristics of an educational program.

MAP 425. Communication/Collaboration. 3 sem. hrs.
Building on previous MAP courses, the course focuses on the use of social problem-solving skills: conflict resolution, anger diffusion, and crisis intervention.

MAP 433. Facilitating Learning. 1 sem. hr.
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 434, and MAP 435. It concentrates on the employment of community resources and on presentation skills.

MAP 434. Facilitating Learning. 2 sem. hrs.
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 433, and MAP 435. It concentrates on the integration and inclusion of exceptional children and children from diverse backgrounds in various classroom settings: planning for individual needs, modifying objectives and adapting curriculum materials, and personalizing instruction.

MAP 435. Facilitating Learning. 2 sem. hrs.
This course extends concepts of learning, classroom management, behavior modification, and individual behavior management. Emphasis is on using effective programs and interventions with children of diverse abilities to facilitate social and emotional growth and encourage appropriate behavior.

MAP 443. Enrichment Workshop Practicum. 6 sem. hrs.
This course concentrates on learning strategies and thinking skills, and how to integrate them in one's teaching throughout the instructional program. It explores how distinguishing the cognitive from the affective components of thinking skills can help pupils of all abilities to learn responsibility for the decision-making process and help them express their thoughts.

MAP 444. Field Experience Spe Interns. 6 sem. hrs.
This course begins as an apprenticeship with a mentoring teacher in a special education classroom. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting classroom instruction for pupils with mild learning and behavior disabilities.

MAP 445. Field Experience Spe Internsh. 6 sem. hrs.
This course begins as an apprenticeship with a mentoring teacher in an elementary general education classroom setting. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting the classroom instruction.

Music Academics (MUS) Courses

MUS 115. Theory I. 4 sem. hrs.
Study of the foundations of musical materials through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the fall semester.

MUS 117. Theory II. 4 sem. hrs.
Study of the melodic and harmonic materials of the 18th and early 19th centuries through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the spring semester.

MUS 121. Intro To Listening. 3 sem. hrs.
Credit earned in this course may not be applied to a major program in the School of Music. The course presupposes no musical training on the student's part. Emphasis is on what to listen for in music.

MUS 150. Song Writing. 3 sem. hrs.
Popular/commercial song ideas will be developed by sharing, listening to, analyzing, and describing existing songs and personal compositions. Experiences will include experimenting with and improvising music and lyrics toward crafting a personal songwriting style.
Prerequisite(s): None.

MUS 155. Discover Your Inspiration. 3 sem. hrs.
Imagine if you could turn on creativity like a car: rev the engine, cruise in the fast lane and park it until you need it again. Creativity really means perspiration x inspiration. You are not born with it, you have to cultivate it. This course will give you the tools to see all the possibilities around you as you begin your studies at the University of Alabama.

MUS 161. Oboe Reedmaking. 1 sem. hr.
Independent laboratory instruction in oboe reedmaking. Up to four semesters of MUS 161 may be counted toward the degree.

MUS 164. Chamber Choir. 1 sem. hr.
Applied ensemble for singers at the freshmen level.

MUS 180. Intro Music Therapy. 2 sem. hrs.
Study of music as a human behavior and of music's use with the handicapped and those suffering from behavioral disorders.
Prerequisite(s): MUS 115
Prerequisite(s) with concurrency: MUS 115.

MUS 182. Obsrv Orient Mu Therapy. 2 sem. hrs.
Study of the functions of the music therapist with emphasis on the use of music in a therapeutic environment.
Prerequisite(s): MUS 180.

MUS 215. Theory III. 4 sem. hrs.
Study of musical materials and forms from the early to mid-19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the fall semester.

MUS 217. Theory IV. 4 sem. hrs.
Study of musical materials and forms from the mid- to late 19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the spring semester.

MUS 219. Composition I. 2 sem. hrs.
Basic techniques of musical composition.

MUS 220. Composition II. 2 sem. hrs.
A continuation of Composition I. Basic techniques of musical composition.

MUS 228. Jazz Piano Jazz Theory I. 1 sem. hr.
Introduction to theoretic principles of jazz and application on the piano, including definition and applications of chords and scales, progressions, chord substitution principles. Offered in the fall semesters of even-numbered years.

MUS 229. Jazz Piano And Theory II. 1 sem. hr.
Continuation of MUS 228. Focus on modes, synthetic scales, altered extensions, and other extended techniques of the jazz idiom. Offered in the spring semesters of odd-numbered years.

MUS 230. Improvisation I. 1 sem. hr.
Theoretical and applied study of the tonal and rhythmic elements used in developing improvisational skills in jazz, rock, and pop media. Offered in the fall semesters of odd-numbered years.

MUS 231. Improvisation II. 1 sem. hr.
Continuation of MUS 230. Designed to develop advanced improvisational skills in the jazz idiom. Offered in the spring semesters of even-numbered years.

MUS 240. Piano Pedagogy. 2 sem. hrs.
Study of teaching principles, methods, and materials; includes microteaching and observation. Offered in alternate spring semesters.

MUS 244. String Pedagogy. 2 sem. hrs.
Materials and methods for teaching string players in the early grades (both studio and class instruction). Offered according to demand.

MUS 250. Music In World Cultures. 3 sem. hrs.
Study of music in non-Western traditions (Africa, India, Japan, Indonesia, etc.).

MUS 251. Music History I. 3 sem. hrs.
History of music from the ancient Greeks through the end of the 17th century, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the fall semester.
Prerequisite(s): MUS 250.

MUS 252. Music History II. 3 sem. hrs.
History of music in the 18th and early 19th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the spring semester.
Prerequisite(s): MUS 251.

MUS 254. Diction For Singers I. 3 sem. hrs.
Introduction to the International Phonetic Alphabet; study and practice of Italian and English diction. Offered in alternate years.

MUS 255. Diction For Singers II. 3 sem. hrs.
Study and practice of German and French diction. Offered in alternate years.

MUS 280. Music Therapy Skills Repertoir. 2 sem. hrs.
The course emphasizes command of the wealth of folk, popular, and recreational music of the main segments of American culture, as well as polished singing and accompanying skills needed for competent performance.
Prerequisite(s): MUS 182 and MUA 220.

MUS 281. Music Recreation Techniques. 2 sem. hrs.
Prerequisite(s): MUS 280.

MUS 282. Music Therapy Practicum. 1 sem. hr.
Prerequisite(s): MUA 220 and MUS 182.

MUS 300. Intro Music Theory Research. 2 sem. hrs.
An introduction to scholarly research for students who plan academic careers as musical theorists.

MUS 303. 16th Cent Counterpoint. 3 sem. hrs.
Practical study, through analysis and composition, of vocal polyphony as developed in the 16th century. Offered in the fall semester.

MUS 304. 18th Cent Counterpoint. 3 sem. hrs.
The 18th-century style of counterpoint as developed by Bach. Offered in the spring semester.

MUS 307. Form And Analysis. 3 sem. hrs.
Complete survey of the forms of composition, beginning with phrase and period and covering large forms such as rondo, sonata, concerto, and fugue. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.

MUS 310. Arranging. 3 sem. hrs.
Basic jazz arranging techniques for small ensembles. Offered in the fall semester.

MUS 312. Intermediate Arranging. 3 sem. hrs.
Continuation of MUS 310 (Arranging). Emphasis on writing for the big band and mixed media instrumentation, focusing on extended arranging techniques. Offered in the spring semester.

MUS 315. Mus Managemt Activity. 2 sem. hrs.
Practical consideration of all aspects of concert production and administration for musicians and music business people.

MUS 316. Careers In Music. 2 sem. hrs.
Exploration of careers in concert and commercial music for musicians and others. Offered spring semester.

MUS 319. Composition III. 3 sem. hrs.
Projects in musical composition.

MUS 320. Composition IV. 3 sem. hrs.
Projects in musical composition.

MUS 323. Music History III. 3 sem. hrs.
History of music in the 19th and 20th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): MUS 252.

MUS 324. Practical Skills and Concepts for the 21st Century Musician. 2 sem. hrs.
The Course will provide information designed to challenge (student's) concepts of change, leadership and creativity. Concepts which are 21rst century necessities. Practical steps of implementation in these 3 areas will be offered through mini-internships in the SOM . In particular through activities involving the SOM Concert Hall, Recital Hall, Music Services, The TSO, the modern applied studio, Arts Council and the Alys Stephens Center. Students will learn how to work with others; focus on the underbelly of performance ; value the necessary stream of activity needed for a successful production. Such "productions" may include developing an idea, running a meeting, producing an event or a concert, write/speak about music and the arts.

MUS 325. Orchestration I. 3 sem. hrs.
Basic instrumentation and writing for ensembles and orchestra. Offered in the fall semester of even-numbered years.

MUS 326. Arts Venues Management. 2 sem. hrs.
Through course readings, lectures, guest presentations, and hands-on experience students will learn the roles and operations of arts and music venues. This class is a combination of practical work and classroom lectures. The class will be held at several local venues, the primary one being the Tuscaloosa Amphitheater. Other venues include Tuscaloosa River Market, Mildred Westervelt Warner Transportation Museum, Bama Theatre and UA venues.
Prerequisite(s): Junior status or permission of instructor.

MUS 327. Studies Special Literat. 3 sem. hrs.
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 331. Jazz Symposium. 3 sem. hrs.

MUS 332. Experimental Music. 3 sem. hrs.
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We will begin be defining what experimental music is - what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hip, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.

MUS 333. Service Playing. 3 sem. hrs.

MUS 334. Service Playing. 3 sem. hrs.

MUS 335. Accompanying Class. 2 sem. hrs.
Survey of accompanying techniques and of the standard repertoire in the vocal, string, and wind areas. Experience is gained through assigned projects and/or assigned studio accompanying. Offered in the spring semester of even-numbered years.

MUS 340. Intro Recording Techniq. 3 sem. hrs.
Exploration of the basics of the art of sound recording. Emphasis on the mixing console, microphone placement, effects, recording basic tracks, and mixdown.

MUS 344. String Pedagogy. 2 sem. hrs.

MUS 351. Fund Of Conducting. 2 sem. hrs.
Introduction to the basic techniques of conducting with emphasis on the understanding and control of music materials. Offered in the fall semester.

MUS 364. Chamber Choir. 1 sem. hr.
Applied ensemble for singers at the junior level.

MUS 365. Legal Issues in the Arts. 3 sem. hrs.
This course will explore a broad range of legal topics pertinent to the arts, including: copyright, trademark, contracts, management of employees, union issues, advertising and 501 (c)(3) non-profit status.
Prerequisite(s): MUS 115 and MUS 117.

MUS 380. Intro Psychology Music. 3 sem. hrs.
Basic study of acoustics, the ear and hearing, and the psychosociophysiological processes involved in musical behavior.
Prerequisite(s): MUS 281 and MUA 199.

MUS 382. Music Therapy Practicum. 1 sem. hr.
Supervised music therapy experience in local facilities.

MUS 401. Film Scoring I. 3 sem. hrs.
A study of the art of scoring music for films. Emphasis will be placed on the short jingle and the technical aspects of film scoring. Offered in the fall semester.

MUS 402. Film Scoring II. 3 sem. hrs.
Continuation of MUS 401. Emphasis will be placed on writing the extended film score by analysis of psychological impact, orchestrational techniques, etc. Offered in the spring semester.

MUS 403. Advanced Counterpoint. 3 sem. hrs.
The writing of fugue, variation, ground-bass, and canon. Offered in the fall semesters of odd-numbered years.

MUS 405. Studio Tech Arrang Orchs. 3 sem. hrs.
Continued development of arranging and orchestrating techniques in both jazz and commercial settings, with an emphasis on the studio orchestra, MIDI instrumentation, and vocal groups.

MUS 406. Keyboard Techniques. 2 sem. hrs.
Applied survey of figured bass, choral open-score reading, transposition, and harmonization. Offered in the fall semesters of odd-numbered years.

MUS 407. Marketing the Arts. 2 sem. hrs.
Marketing the Arts will provide students with a general overview of communications including public relations, advertising, marketing and new media. Through readings, discussions, quizzes, an examination and a final group presentation students will develop an understanding of marketing practices involved in promoting an arts organization. Emphasis will be on not-for-profit organizations, community theatres and symphony orchestras.

MUS 412. Digtl Syn Of Elec Mus. 3 sem. hrs.
Instruction in the design and utilization of sound-generating computer programs. Offered in the fall semester of even-numbered years.

MUS 414. Tech Electronic Music II. 3 sem. hrs.
Utilization of digital synthesizers and advanced studio techniques. Offered in the spring semesters of even-numbered years.

MUS 418. Structural Analysis II. 3 sem. hrs.
Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers. Offered in the fall semesters of odd-numbered years.

MUS 419. Composition V. 3 sem. hrs.

MUS 420. Composition VI. 3 sem. hrs.

MUS 426. Analysis 20th Cent Music. 3 sem. hrs.
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 427. Studies In Special Lit. 3 sem. hrs.
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 433. Proseminar Symphonic Lit. 3 sem. hrs.
Lecture and class reports analyzing selected masterworks from the symphony, symphonic poem, and concert overture repertoire.

MUS 435. Baroque Proseminar. 3 sem. hrs.
An intensive study of the music, composers, style characteristics, theoretical and aesthetic principles, and performance practices associated with the music of the Baroque period (1600-1750) via reading, listening and musical analysis. Offered in the fall semesters of even-numbered years.

MUS 444. Vocal Pedagogy. 2 sem. hrs.
Introduction to the concepts, methods, and materials essential to effective teaching of the singing voice. Offered in alternate years.

MUS 447. Teaching Choral Music Publ Sch. 3 sem. hrs.
The scope, organization, and administration of choral programs in public schools. Includes analysis of teaching techniques and materials appropriate to specific levels of development. Offered in the fall semester.

MUS 448. Tchng Instrumental Music Pub S. 3 sem. hrs.
Problems encountered in the development of instrumental programs in public schools; analysis of beginning method books for heterogeneous and homogeneous groups; and development of a course of study to guide the new teacher. Offered in the fall semester.

MUS 461. History/Literature Jazz. 3 sem. hrs.
History of the development of jazz to the present, from its African roots to its American florescence. Particular attention is paid to early styles and forms.

MUS 471. Lit Of The Piano. 2 sem. hrs.
Survey of the important solo repertoire from Bach through Schubert. Examination of the development of keyboard technique from the time of the harpsichord through the time of the early piano. Offered in the fall semesters of even-numbered years.

MUS 472. Lit Of The Piano. 2 sem. hrs.
Survey of the important solo repertoire from the early Romantic era through the present. Examination of the development of piano technique from Chopin and Liszt through Cage and Crumb. Offered in the spring semesters of odd-numbered years.

MUS 473. String Literature. 2 sem. hrs.
Study of the standard repertoire for bowed instruments, from the Baroque period to the present.

MUS 474. Song Literature. 3 sem. hrs.
Survey of the performance criteria and historical significance of the solo song literature of the United States, the British Isles, Germany, Austria, France, and Italy. Performance and class participation are required. Offered in alternate years.

MUS 475. Song Literature. 3 sem. hrs.
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 478. Organ Literature. 2 sem. hrs.
Continuation of MUS 477. Offered in spring of odd numbered years.

MUS 480. Music in Therapy I. 3 sem. hrs.
Study of diagnostic categories, standard clinical techniques, and applications in music therapy. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 380.

MUS 481. Music Therapy II. 3 sem. hrs.
Study of etiology, literature, and uses of music in treatment.
Prerequisite(s): MUS 480.

MUS 482. Music In Therapy III. 3 sem. hrs.
Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 481.

MUS 487. Sem Prof Pract Mu Therp. 2 sem. hrs.
Study of clinical administration, supervision, ethics, and professional behavior.

MUS 488. Comp Exam Music Therapy. 0 sem. hrs.

MUS 489. Music Therapy Internship. 6 sem. hrs.

MUS 490. Raising Money Dev Arts. 2 sem. hrs.
Theories and techniques of securing funds for nonprofit organizations, including donor cultivation and grant preparation. Offered in the fall semester.

MUS 492. Choral Conducting. 2 sem. hrs.
Continuation of MUS 351 with emphasis on the problem of the choral ensemble. A study of rehearsal technique, vocal problems, diction, score analysis, style, and choral literature. Offered in the spring semester.

MUS 494. Band Conducting. 2 sem. hrs.
Continuation of MUS 351 with emphasis on the problem of the wind ensemble. A study of baton technique, score reading, rehearsal procedure, and band literature. Offered in the spring semester.

MUS 496. Music Administration Internship. 3-6 sem. hrs.
A minimum of one semester of internship with the following recommended host organizations: (1) a performing arts organization, (2) a community, state, or regional arts council, (3) a performing arts venue, (4) a musical festival or (5) a reputable recording studio. The internship must have the approval of and will be under the supervision of the Music Administration Coordinator.

MUS 497. Senior Project. 1 sem. hr.
Required of all BA students in music (music and music administration): A substantial paper on a topic approved by the faculty advisor and completed in consultation with the advisor and examined by a faculty committee. In administration: a supervised practicum arranged through the advisor.

MUS 498. Indep Research In Mus. 1-6 sem. hr.

Music Education (MUE) Courses

MUE 107. Basic Skills In Music. 2 sem. hrs.
Basic music-reading skills developed through singing and playing of instruments. The course is designed for the prospective elementary school teacher and is a prerequisite for MUE 385. Students with previous musical training may elect to demonstrate equivalent skills through testing.

MUE 200. Intro to Music Education. 2 sem. hrs.
Techniques associated with teaching music in the public schools. Development of classroom management skills and reflection on the role of the music educator in contemporary classrooms.
Prerequisite(s): MUS 115
Prerequisite(s) with concurrency: EDU 200.

MUE 251. Intro To Winds, Str, Per. 3 sem. hrs.
Group instruction in and exposure to techniques for working with wind, string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 252. Teach String/Percu Instr. 2 sem. hrs.
Group instruction in and exposure to techniques of teaching and performing on string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 350. Evaluatn Teaching Learning Mus. 3 sem. hrs.
Survey of standardized instruments and evaluation techniques in music.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and BEP 305 Admission to Teacher Education Program.

MUE 351. Tchg Flute Single Reeds. 3 sem. hrs.
Instructional techniques and materials for teaching flute and single reeds. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 352. Teaching Double Reeds. 1 sem. hr.
Instructional techniques and materials for teaching oboe and bassoon. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 353. Teach Brass Instruments. 2 sem. hrs.
Designed to provide the instrumental music education major with skills necessary to teach beginning, intermediate, and advanced students of brass wind instruments. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 354. Teaching Percussion II. 1 sem. hr.
Instructional techniques and materials for teaching intermediate and advanced players. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 380. Vocal Methods. 2 sem. hrs.
Examination of vocal pedagogy, diction, and solo vocal literature appropriate for teaching students in a public-school setting. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: MUE 381.

MUE 381. Vocal Methods Lab. 1 sem. hr.
Examination of the vocal instrument and teaching strategies for working with young voices. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

MUE 385. Tchg Music Elementary Schools. 3 sem. hrs.
Music curriculum in elementary schools and methods and techniques of teaching music in various grades are covered.
Prerequisite(s): MUE 107.

MUE 387. Elem School Music Program. 3 sem. hrs.
Comprehensive coverage of the music curriculum in the elementary school, including current methodologies. Teaching techniques and materials are demonstrated and applied in field experiences. Offered spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): BEP 305 and MUE 389 Admission to Teacher Education Program.

MUE 389. Clinical Experience In Mue. 3 sem. hrs.
Campus- and field-based experiences in public-school music education at several levels. Microteaching and development of teaching techniques are included. Offered fall semester.
Prerequisite(s): MUS 117.

MUE 486. Marching Band Techniques. 2 sem. hrs.
Fundamentals of marching, maneuvering, and preparation and presentation of formations. Offered fall semester and in summer term during odd-numbered years.

MUE 497. Internship Music Educ. 3-18 sem. hrs.
Full time supervised teaching experience in the area of specialization (instrumental or vocal).
Prerequisite(s): MUA 499 and MUA 299 and MUS 447 or MUS 448 Admission to Teacher Education Program.

Music, Applied (MUA) Courses

MUA 010. Music Convocation. 0 sem. hrs.

MUA 100. Class Voice Beginning. 1 sem. hr.

MUA 121. Class Piano I. 1 sem. hr.

MUA 122. Class Piano II. 1 sem. hr.

MUA 123. Class Piano III. 1 sem. hr.

MUA 124. Class Piano IV. 1 sem. hr.

MUA 129. Guitar (Non-Majors). 0.5-1 sem. hrs.

MUA 130. Harp (Non-Majors). 0.5-1 sem. hrs.

MUA 131. Piano (Non-Majors). 0.5-1 sem. hrs.

MUA 132. Organ (Non-Majors). 0.5-1 sem. hrs.

MUA 133. Harpsichord (Non-Majors). 0.5-1 sem. hrs.

MUA 134. Voice (Non-Majors). 0.5-1 sem. hrs.

MUA 135. Violin (Non-Majors). 0.5-1 sem. hrs.

MUA 136. Viola (Non-Majors). 0.5-1 sem. hrs.

MUA 137. Cello (Non-Majors). 0.5-1 sem. hrs.

MUA 138. String Bass (Non-Majors). 0.5-1 sem. hrs.

MUA 139. Flute (Non-Majors). 0.5-1 sem. hrs.

MUA 140. Oboe (Non-Majors). 0.5-1 sem. hrs.

MUA 141. Bassoon (Non-Majors). 0.5-1 sem. hrs.

MUA 142. Clarinet (Non-Majors). 0.5-1 sem. hrs.

MUA 143. Saxophone (Non-Majors). 0.5-1 sem. hrs.

MUA 144. Trumpet (Non-Majors). 0.5-1 sem. hrs.

MUA 145. French Horn (Non-Majors). 0.5-1 sem. hrs.

MUA 146. Trombone (Non-Majors). 0.5-1 sem. hrs.

MUA 147. Euphonium (Non-Majors). 0.5-1 sem. hrs.

MUA 148. Tuba (Non-Majors). 0.5-1 sem. hrs.

MUA 149. Percussion (Non-Majors). 0.5-1 sem. hrs.

MUA 150. Symphony Orchestra. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 151. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 152. Wind Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 153. Marching Band. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 154. Symphonic Band. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 155. Trombone Choir. 0-1 sem. hrs.
Applied ensemble for trombone students at the freshmen level.

MUA 156. Percussion Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 157. Campus Band. 0-1 sem. hrs.
Applied ensemble at the freshmen level.

MUA 158. Contemp Music Ensemble. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 159. Jazz Ensembles. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 160. Opera Workshop. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 161. Opera Production. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 162. University Chorus. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 163. University Singers. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 164. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the freshmen level.

MUA 166. Piano Ensemble I. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 167. Jazz Combo. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 168. Alabama Women's Chorale. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 169. Chamber Music. 0-1 sem. hrs.
Applied Ensemble at the undergraduate level.

MUA 170. Harp (Majors). 1-4 sem. hr.

MUA 171. Piano (Majors). 1-4 sem. hr.

MUA 172. Organ (Majors). 1-4 sem. hr.

MUA 174. Voice (Majors). 0.5-4 sem. hrs.
Voice study at the freshman and sophomore levels for music majors.

MUA 175. Violin (Majors). 1-4 sem. hr.

MUA 176. Viola (Majors). 1-4 sem. hr.

MUA 177. Cello (Majors). 1-4 sem. hr.

MUA 178. String Bass (Majors). 1-4 sem. hr.

MUA 179. Flute (Majors). 1-4 sem. hr.

MUA 180. Oboe (Majors). 1-4 sem. hr.

MUA 181. Bassoon (Majors). 1-4 sem. hr.

MUA 182. Clarinet (Majors). 1-4 sem. hr.

MUA 183. Saxophone (Majors). 1-4 sem. hr.

MUA 184. Trumpet (Majors). 1-4 sem. hr.

MUA 185. French Horn (Majors). 1-4 sem. hr.

MUA 186. Trombone (Majors). 1-4 sem. hr.

MUA 187. Euphonium (Majors). 1-4 sem. hr.

MUA 188. Tuba (Majors). 1-4 sem. hr.

MUA 189. Percussion (Majors). 1-4 sem. hr.

MUA 190. Guitar (Majors). 1-4 sem. hr.

MUA 191. Practicum Applied Music. 1-3 sem. hr.

MUA 199. Sophomore Qualifying. 0 sem. hrs.

MUA 220. Class Guitar. 1 sem. hr.
Prerequisite(s): MUS 115.

MUA 229. Guitar (Secondary). 0.5-1 sem. hrs.
Applied guitar lessons as a secondary instrument for music majors only.

MUA 231. Piano (Secondary). 0.5-1 sem. hrs.
Applied piano lessons as a secondary instrument for music majors only.

MUA 232. Organ (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 233. Harpsichord (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 234. Voice (Secondary). 0.5-1 sem. hrs.
Applied lessons for music students majoring in another discipline.

MUA 235. Violin (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 236. Viola (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 237. Cello (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 238. String Bass (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 239. Flute (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 240. Oboe (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 241. Bassoon (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 242. Clarinet (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 243. Saxophone (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 244. Trumpet (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 245. French Horn (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 246. Trombone (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 247. Euphonium (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 248. Tuba (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 249. Percussion (Secondary). 0.5-1 sem. hrs.
Applied Lessons for music majors of another discipline.

MUA 250. Symphony Orchestra. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 251. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 252. Wind Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 253. Marching Band. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 254. Symphonic Band. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 255. Trombone Choir. 1 sem. hr.
Applied ensemble for trombone students at the sophomore level.

MUA 256. Percussion Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 257. Campus Band. 0-1 sem. hrs.
Applied Ensemble at the sophomore level.

MUA 258. Contemporary Ensemble. 0-1 sem. hrs.
Applied ensemble focusing on music of the 20 and 21st centuries.

MUA 259. Jazz Ensemble. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 260. Opera Workshop. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 261. Opera Production. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 262. University Chorus. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 263. University Singers. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 264. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the sophomore level.

MUA 266. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the sophomore level for keyboard majors.

MUA 267. Jazz Combo. 0-1 sem. hrs.
Sophomore level ensemble.

MUA 269. Chamber Music. 0-1 sem. hrs.
Sophomore level small ensemble.

MUA 270. Harp (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 271. Piano (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 272. Organ (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 273. Harpsichord (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 274. Voice (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 275. Violin (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 276. Viola (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 277. Cello (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 278. String Bass (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 279. Flute (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 280. Oboe (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 281. Bassoon (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 282. Clarinet (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 283. Saxophone (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 284. Trumpet (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 285. French Horn (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 286. Trombone (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 287. Euphonium (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 288. Tuba (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 289. Percussion (Majors). 1-4 sem. hr.
Applied lessons for music majors at the sophomore level.

MUA 290. Guitar (Majors). 1-4 sem. hr.
Applied study at the sophomore level for music majors.

MUA 299. Piano Proficiency. 0 sem. hrs.

MUA 331. Piano II (Secondary). 0.5-1 sem. hrs.
Secondary applied piano study for music education students in the third and fourth semester of piano.
Prerequisite(s): MUA 231.

MUA 334. Voice II (Secondary). 0.5-1 sem. hrs.
Secondary applied voice for music majors in the third and fourth semesters of taking the course.
Prerequisite(s): MUA 234.

MUA 350. Symphony Orchestra. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 351. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 352. Wind Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 353. Marching Band. 0-1 sem. hrs.
Marching Band at the junior level.

MUA 354. Symphonic Band. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 355. Trombone Choir. 0-1 sem. hrs.
Applied ensemble for trombone students at the junior level.

MUA 356. Percussion Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 357. Campus Band. 0-1 sem. hrs.
Applied ensemble at the Junior level.

MUA 358. Contemp Music Ensemble. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 359. Jazz Ensembles. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 360. Opera Workshop. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 361. Opera Production. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 362. University Chorus. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 363. University Singers. 0-1 sem. hrs.
Applied Ensemble at the junior level.

MUA 364. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singers at the junior level.

MUA 366. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the junior level for keyboard majors.

MUA 367. Jazz Combo. 0-1 sem. hrs.
Applied ensemble at the junior level.

MUA 369. Chamber Music. 0-1 sem. hrs.
Applied ensemble in a small chamber group.

MUA 370. Harp (Majors). 0.5-4 sem. hrs.

MUA 371. Piano (Majors). 0.5-4 sem. hrs.

MUA 372. Organ (Majors). 0.5-4 sem. hrs.

MUA 374. Voice (Majors). 0.5-4 sem. hrs.

MUA 375. Violin (Majors). 0.5-4 sem. hrs.

MUA 376. Viola (Majors). 0.5-4 sem. hrs.

MUA 377. Cello (Majors). 0.5-4 sem. hrs.

MUA 378. String Bass (Majors). 0.5-4 sem. hrs.

MUA 379. Flute (Majors). 0.5-4 sem. hrs.

MUA 380. Oboe (Majors). 0.5-4 sem. hrs.

MUA 381. Bassoon (Majors). 0.5-4 sem. hrs.

MUA 382. Clarinet (Majors). 0.5-4 sem. hrs.

MUA 383. Saxophone (Majors). 0.5-4 sem. hrs.

MUA 384. Trumpet (Majors). 0.5-4 sem. hrs.

MUA 385. French Horn (Majors). 0.5-4 sem. hrs.

MUA 386. Trombone (Majors). 0.5-4 sem. hrs.

MUA 387. Euphonium (Majors). 0.5-4 sem. hrs.

MUA 388. Tuba (Majors). 0.5-4 sem. hrs.

MUA 389. Percussion (Majors). 0.5-4 sem. hrs.

MUA 390. Guitar (Majors). 0.5-4 sem. hrs.

MUA 391. Practicum Applied Music. 1-3 sem. hr.

MUA 399. Junior Recital. 1 sem. hr.

MUA 450. Symphony Orchestra. 0-1 sem. hrs.
Senior level ensemble.

MUA 451. Alabama Brass Choir. 0-1 sem. hrs.
Applied ensemble for brass musicians. Permission of instructor is required.

MUA 452. Wind Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 453. Marching Band. 0-1 sem. hrs.
Senior level ensemble.

MUA 454. Symphonic Band. 0-1 sem. hrs.
Senior level ensemble.

MUA 455. Trombone Choir. 1 sem. hr.
Applied ensemble for trombone students at the Senior level.

MUA 456. Percussion Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 457. Campus Band. 0-1 sem. hrs.
Applied ensemble at the Senior level.

MUA 458. Contemporary Ensemble. 0-1 sem. hrs.
Applied ensemble at the senior level focusing on music of the 20th and 21st centuries.

MUA 459. Jazz Ensemble. 0-1 sem. hrs.
Senior level ensemble.

MUA 460. Opera Workshop. 0-1 sem. hrs.
Senior level ensemble.

MUA 461. Opera Production. 0-1 sem. hrs.
Senior level ensemble.

MUA 462. University Chorus. 0-1 sem. hrs.
Senior level ensemble.

MUA 463. University Singers. 0-1 sem. hrs.
Senior level ensemble.

MUA 464. Chamber Choir. 0-1 sem. hrs.
Applied ensemble for singer at the senior level.

MUA 466. Piano Ensemble. 0-1 sem. hrs.
Applied ensemble at the senior level for keyboard majors.

MUA 467. Jazz Combo. 0-1 sem. hrs.
Senior level ensemble.

MUA 469. Chamber Music. 0-1 sem. hrs.
Senior level small ensemble.

MUA 471. Piano (Majors). 0.5-4 sem. hrs.
Senior level applied piano study for music majors.
Prerequisite(s): MUA 371.

MUA 472. Organ (Majors). 0.5-4 sem. hrs.
Senior level applied organ study for music majors.
Prerequisite(s): MUA 372.

MUA 473. Harpsichord (Majors). 0.5-4 sem. hrs.
Senior level applied harpsichord study for music majors.

MUA 474. Voice (Majors). 0.5-4 sem. hrs.
Senior level applied voice study for music majors.
Prerequisite(s): MUA 374.

MUA 475. Violin (Majors). 0.5-4 sem. hrs.
Senior level applied violin study for music majors.
Prerequisite(s): MUA 375.

MUA 476. Viola (Majors). 0.5-4 sem. hrs.
Senior level applied viola study for music majors.
Prerequisite(s): MUA 376.

MUA 477. Cello (Majors). 0.5-4 sem. hrs.
Senior level applied cello study for music majors.
Prerequisite(s): MUA 377.

MUA 478. Sting Bass (Majors). 0.5-4 sem. hrs.
Senior level applied string bass study for music majors.
Prerequisite(s): MUA 378.

MUA 479. Flute (Majors). 0.5-4 sem. hrs.
Senior level applied fluted study for music majors.
Prerequisite(s): MUA 379.

MUA 480. Oboe (Majors). 0.5-4 sem. hrs.
Senior level applied oboe study for music majors.
Prerequisite(s): MUA 380.

MUA 481. Bassoon (Majors). 0.5-4 sem. hrs.
Senior level applied bassoon study for music majors.
Prerequisite(s): MUA 381.

MUA 482. Clarinet (Majors). 0.5-4 sem. hrs.
Senior level applied clarinet study for music majors.
Prerequisite(s): MUA 382.

MUA 483. Saxophone (Majors). 0.5-4 sem. hrs.
Senior level applied saxophone study for music majors.
Prerequisite(s): MUA 383.

MUA 484. Trumpet (Majors). 0.5-4 sem. hrs.
Senior level applied trumpet study for music majors.
Prerequisite(s): MUA 384.

MUA 485. French Horn (Majors). 0.5-4 sem. hrs.
Senior level applied french horn study for music majors.
Prerequisite(s): MUA 385.

MUA 486. Trombone (Majors). 0.5-4 sem. hrs.
Senior level applied trombone study for music majors.
Prerequisite(s): MUA 386.

MUA 487. Euphonium (Majors). 0.5-4 sem. hrs.
Senior level applied euphonium study for music majors.
Prerequisite(s): MUA 387.

MUA 488. Tuba (Majors). 0.5-4 sem. hrs.
Senior level applied tuba study for music majors.
Prerequisite(s): MUA 388.

MUA 489. Percussion (Majors). 0.5-4 sem. hrs.
Senior level applied percussion study for music majors.
Prerequisite(s): MUA 389.

MUA 490. Guitar (Majors). 1-4 sem. hr.
Senior level of applied guitar study for music majors.
Prerequisite(s): MUA 390.

MUA 499. Senior Recital. 1 sem. hr.

New College (NEW) Courses

NEW 100. Intro Interdisc Integratv Stdy. 1-2 sem. hr.
Designed to help New College students become more informed about the University and about New College so that they may maximize their opportunities in their undergraduate programs through New College. Enrollment is limited to New College students.

NEW 155. Freshman Seminar. 3 sem. hrs.

NEW 200. Prior Learning. 1-99 sem. hr.

NEW 201. Recreation For Life. 1 sem. hr.
In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 202. Recreation For Life. 1 sem. hr.
In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 211. Perspectives in the Humanities. 4 sem. hrs.
Introductory course in the humanities (art, literature, music, etc.) with a focus on problem solving, risk taking and communication. Human behavior and writing skills are stressed.

NEW 212. Creativity. 4 sem. hrs.
This interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion.

NEW 215. Perspec. on Env. Literature. 4 sem. hrs.
Considers perspectives on environmental studies within the humanities by examining key texts of environmental literature.

NEW 222. Academic Potential. 2 sem. hrs.
This course is designed to assist students in developing practical study strategies and attitudinal elements of college success. Topics of primary focus include self-assessment, motivation, personal responsibility, time management, memory, textbook reading, note taking, test preparation, and exam taking. Open to all students.

NEW 223. Mcnair Scholar'S Seminar. 1 sem. hr.
To provide knowledge and skills in a variety of areas to strengthen personal, academic, and research competencies vital to success in graduate programs.

NEW 226. Organic Farming. 4 sem. hrs.
An intensive, hands-on course in organic farming taught at a local working farm. Covers the basics of organic farming while also addressing questions about organic versus industrial agriculture models in relation to current environmental problems and solutions.

NEW 230. Environmental Studies. 4 sem. hrs.
This course engages students in the study of environmental problems and solutions. It includes an examination of fundamental assumptions about the ethical human-nature relation and of how to value nature. The approach is interdisciplinary, drawing on the humanities, social sciences, and natural sciences.

NEW 237. Cooperation & Conflict. 4 sem. hrs.
This seminar explores cooperation and conflict in human societies; all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 238. Honors: Coop. & Conflict. 4 sem. hrs.
This honors seminar explores cooperation and conflict in human societies – all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 243. Interdisciplinary Sciences. 4 sem. hrs.
This seminar demonstrates how the nature of the laboratory experience plays an essential role in the understanding and advancement of science. Several multidisciplinary experiments are performed in geology, chemistry, physics, and biology.

NEW 270. Leader Soc Justice Activism. 3 sem. hrs.

NEW 273. Social Issues & Ethics. 4 sem. hrs.
This seminar is designed to develop an awareness of the methodologies and concerns of the social sciences as they relate to ethical inquiry. The primary focus is on the nature of inquiry and models for the analysis of ethical issues confronting the modern world. Students will explore the complexity of moral dilemmas and effective societal responses to competing moral obligations in the areas of health care, socio-economic disparities, affirmative action, immigration, and racism.

NEW 310. Independent Study. 1-15 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 311. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

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A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 313. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 314. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 315. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 316. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 317. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 318. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 319. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 320. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 321. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 322. Independent Study. 1-12 sem. hr.
A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 332. Experimental Music. 3 sem. hrs.
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We'll begin by defining what experimental music is – what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hop, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 333. CIEL Internship . 9-15 sem. hrs.
This course serves as the course students register for as part of the exchange program with the Consoritum for Innovative Environment in Learning. Students pay tuition to UA but actually study as a full-time student at one of the 12 CIEL sister institutions.

NEW 338. New College Review I. 2 sem. hrs.
This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students gain experience in thematic approaches to a publication, concept formation for an audience, socially responsible publishing, and writing and editing persuasive essays. Students are strongly encouraged to take both.

NEW 339. New College Review II. 2 sem. hrs.
This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students edit, design, and distribute the New College Review. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW 341. Social Action and Performance. 3 sem. hrs.
Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted
Prerequisite(s): EN 101 and EN 102.

NEW 342. Social Action and Performance. 3 sem. hrs.
Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted.
Prerequisite(s): (EN 101 and EN 102) or EN 103.

NEW 360. Sound Studies. 3 sem. hrs.
How do we experience, define, use and abuse sound? What elements of a sound determine their meaning to us, and why? What can we learn about the world by focusing on its sounds? An emerging interdisciplinary field of research, sound studies asks these questions and more, in an attempt to uncover the important role of sound in our lives. Why do shopping malls sound like they do? What do cellphone ringtones tell you about a person? How has the changing soundscape of the ocean affected natural processes and wildlife? Why do clocktower bells ring? How is music used to both soothe, entertain, and torture or control people? This interdisciplinary course explores sound in a variety of current and historical global contexts – of which music is only one small part – examining the many ways sound signifies and defines our cultures and histories. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 361. Handmade Sounds: A Hands-on History of Electronic Music. 4 sem. hrs.
Did you know you can make electronic music with credit cards? Old toys? 30-cent circuit boards? This course will teach you to build your own electronic orchestra from scratch while also exploring the history of electronic music, with a special focus on tinkering experimenters that created electronic music using self-made instruments. Through a combination of theory and practice, you will learn about electronic music's pioneers, recreating some of their early experiments to experience this history with your own hands and ears. We will explore the construction of a variety of simple electronic instruments, learn to play them, and perform a concert at the end of the term. No previous musical or technical experience is required, but there will be a significant amount of hands-on work with tools and wires in addition to the usual course load of reading, writing and discussion, so an interest in working with technology is a must. Each day of the course we will discuss the work of historical figures in electronic music followed by a laboratory period of hands-on exploration and creation. You are required to write 10 500-word essays articulating your response to the course materials. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): N/A.

NEW 365. Introduction to Environmental Policy. 3 sem. hrs.
This introductory environmental policy course reviews major developments in environmental regulation in the United States, considered in a global context. Readings examine the evolution of U.S. environmental policy, the form and function of social institutions used to govern human-environment interactions, including markets, state and civil society, and conventions, norms, and morals. U.S. and U.N. legal structures, agencies, and NGOs are addressed, with attention to comparative regulatory frameworks. The "new institutional approach," "resource regimes," and various incremental and transformative institutional reforms are discussed. The impact of economic and cultural factors—including class, race, gender, and location—on resource use and other policy decisions affecting the physical and built environments will be explored. Evolving institutional approaches to energy use, such as sustainability, "wise use," adaptive management, and resilience are examined.
Prerequisite(s): No prerequisites.

NEW 401. Birds and Birding. 4 sem. hrs.
This course will introduce students to the popular hobby of birding or bird watching. As such, basic field identification methods will be reviewed and practiced. We will also discuss larger conservation issues as they relate to birds. As we will learn, the phrase "canary in a coal mine" has very practical implication for the modern terrestrial world. We will also discuss the cultural connection between people and birds, and what that has meant for both the destruction and conservation of birds during the past couple of centuries.

NEW 407. 407 W: Landscapes of the South. 3 sem. hrs.
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

NEW 412. Songwriting Workshop. 4 sem. hrs.
Songcraft:songwriting workshop focuses on how songs are made. After a study of various genres (blues, troubadours, popular) students will produce their own songs. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 413. Mythologies. 4 sem. hrs.
This course in comparative mythology introduces students to mythological systems from a variety of cultures, including preclassical, Greek, American Indian, Oriental, African, and contemporary American. Recurring motifs and current theories on the mythologizing process are analyzed.

NEW 415. Gender, Sexuality &Pop Culture. 3 sem. hrs.
What constitutes "femininity" and "masculinity" in 21st century America? How have gender roles changed? Is gender performance? What are the cultural expectations around sexuality, and how is it influenced and policed in society? Includes professor's current case research in this field. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 416. American Environmental Thought. 3 sem. hrs.
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization.

NEW 418. Mash-Up: Intermedia Intersections in the Arts. 4 sem. hrs.
This interdisciplinary course discusses intermedia intersections in 20th and 21st century art and music through lectures, discussions and interactions with visiting artists. We will examine the cultural and historical roots of intermedia art, the outpouring of experimentation in the 20th century avant-garde, and the postmodern pastiche of the digital realm in the 21st century. Spanning work created for galleries, to art and music from urban streets and rural villages, we will explore examples from the visual arts, dance, music, film and architecture to learn how and why artists work with and combine different media. In addition to engaging with a variety of artistic works, we will discuss the cultural, philosophical, theoretical, and compositional issues that meet at intermedia junctions. Writing proficiency is required for a passing grade in this course.

NEW 434. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

NEW 435. Documenting Justice II. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.
Prerequisite(s): NEW 434.

NEW 436. Public Leadership. 4 sem. hrs.
This seminar helps students develop the understanding and skills necessary for the practice of public leadership. The course emphasizes framing public issues for discussion and leading the decision making necessary to set the direction of public policy. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 437. Civic Awareness. 4 sem. hrs.
Current events are examined through print and electronic media in order to assist students in evaluating various sources of information concerning public issues and in developing a public philosophy for responsibilities as a citizen.

NEW 439. Urban Spaces: The Nature of Cities. 3 sem. hrs.
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present.

NEW 441. Climate Change Seminar. 4 sem. hrs.
This seminar introduces students to the science of global climate change and examines public perception and coverage of the topic in various news media outlets, films, and books. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 442. Environmental Ethics and Problems. 3 sem. hrs.
This upper level writing intensive seminar explores the ethical dimensions of ecological relationships, with particular attention to conceptions of nature, justice, and environmental health. We will consider classical ethical concepts, such as utilitarianism and natural law theories, and contemporary environmental approaches, including biocentrism, deep ecology, environmental justice, eco-feminism, and sustainability. This course will be highly interactive, inviting critical thinking about changing ideas about the human place in the natural world. Examining various case studies, we explore the ethical debates surrounding such topics as populations, genetically altered crops, global climate change, biodiversity, and emerging crises in global environmental public health. Readings also address corporate responsibility, science ethics, and public policy. We will consider the ethics of sustainability from the campus to the transnational level. This course meets a college core writing requirement; a demonstration of writing proficiency is required for a passing grade in this course. The course has New College designations for Environment, Sustainability, and Conservation (ESC) and Social Problems and Social Change (SPSC).

NEW 443. Science & Technology. 4 sem. hrs.
The course teaches scientific concepts (time and laws of thermodynamics, change, measurement, reality, etc.) as they relate to the various sciences (anthropology, mathematics, etc.). The relationship of science and technology to the environment of the Earth's surface is stressed.

NEW 446. Gender and Environment. 3 sem. hrs.
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform.

NEW 450. Conservation Field Studies in Belize. 4 sem. hrs.
Study Belize's diverse rainforests, coral reefs, and visit Mayan ruins for a glimpse into a past civilization. Belize is unique in that it still contains relatively undisturbed rainforests and the longest barrier reef in the Western Hemisphere. However, while Belize has emerged as an international leader regarding conservation efforts, threats from climate change, poverty, and development still exist. The purpose of this course is 1) examine current conservation efforts to safeguard this biodiversity; 2) familiarize students with the most important aspects of tropical lowland terrestrial and marine ecosystems; 3) understand the role of local culture in sustainable conservation; 4) gain an understanding of the fundamental importance of biodiversity; and 5) expose students to new and unique cultures and environments. The course is designed for students who are interested in conservation issues, biogeography, marine sciences, ornithology and birding, archaeology, and outdoor adventures! The trip will be divided between a rainforest and a marine field station located next to the barrier reef. So we will have easy access the most diverse environments on the planet.

NEW 472. Social Change. 4 sem. hrs.
This seminar is concerned with the process and analysis of social change. In this seminar, students study the Holocaust, attempting to understand it as an intense and unparalleled human experience. The causes, events, outcomes, and implications are researched through books, films, interviews, tapes, and discussions. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 473. Globalization & Folk Crft Prod. 4 sem. hrs.
This course examines the relationship between the global and the local, using world folk craft (for example, pottery) as a point of focus. The functions of creativity in industrialized and nonindustrialized societies are explored through a combination of reading, research, discussion, and studio experiences. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 474. Survival. 4 sem. hrs.
In this seminar, students study the nature of human and societal survival under extreme conditions. Topics range from issues of a global nature to violent crime, prejudice, and disease. Causes, effects, and possible solutions are all considered. Writing proficiency within this discipline is required for a passing grade in this course.

NEW 490. Special Topics. 3-4 sem. hrs.
The subject matter varies.

NEW 491. Special Topics - Practice. 3-4 sem. hrs.
Subject matter varies. Hands on interdiscplinary learning opportunities.

NEW 495. Capstone Sem & Senior Project. 2 sem. hrs.
14 hours of New College coursework and successful junior year review. New College students only, concluding integrative project.

Norwegian (NOR) Courses

NOR 101. Elem Norwegian Language. 3 sem. hrs.
Contemporary Norwegian: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

Nursing (NUR) Courses

NUR 102. Freshman Compass: Nursing. 1 sem. hr.
The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory).

NUR 104. Liv Learning Prof Nursing Prac. 2 sem. hrs.
This elective course focuses on awareness of education of nursing majors at The University of Alabama Capstone College of Nursing and the profession of nursing. Students have the opportunity to learn about The University of Alabama campus, the Capstone College of Nursing and the profession of nursing. Activities will be included to promote students' development of relationships with other nursing students and other students in Harris Hall. This course, which is known as a compass course, will point you in the right direction, much as a compass would. (Theory).

NUR 155. Freshman Seminar. 3 sem. hrs.
The purpose of this course is to provide the history, facts and trends of the evolution of HIV/AIDS. Particular emphasis will be given to the prevention and early detection of infection for college students. Students will have an opportunity to increase their knowledge and understanding of the disease and the impact it has had on individuals, special populations, and the world. Guest lecturers, videos, and community experiences will enhance this learning experience. (Theory).

NUR 305. Human Pathophysiology. 3 sem. hrs.
The purpose of this course is to introduce students to fundamental pathology of the human body. This course examines physiological change results in disruptive adaptive responses throughout the lifespan. These disruptive responses are approached in a systematic manner. A combination of identified cellular concepts and a body systems approach is utilized to structure course content. Included are basic cellular processes in human pathology, pathology associated with the major body systems, and physiology associated with the aging process. (Theory).

NUR 307. Medication Calculation. 1 sem. hr.
This course is designed to facilitate the students' development of those skills necessary to properly calculate medication dosages and to prepare the student for the Medication Calculation Mastery Exam. Emphasis is placed on those cognitive skills necessary to perform the calculations correctly. (Theory).

NUR 308. Conceptual Foundations Prof Nu. 3 sem. hrs.
This course focuses on concepts and issues relevant to professional nursing practice. Content related to the values of professional nursing and issues affecting practice will be examined. Students are introduced to concepts from the CCN philosophy and conceptual framework. Writing proficiency within this discipline is required for a passing grade in this course.

NUR 309. Nursing Informatics. 3 sem. hrs.
This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. Computing proficiency is required for a passing grade in this course.

NUR 312. Clinical Internship. 1-3 sem. hr.
An elective clinical course that focuses on the further refinement of clinical and leadership skills. Students taking more than one semester hour will contract with the clinical faculty member for additional assignments. (Laboratory).

NUR 317. Indep Study In Nursing. 1-10 sem. hr.
This course focuses on individual independent study of a selected topic under the sponsorship of a nursing faculty member with relevant expertise. Prior approval of proposal by faculty sponsor and associate dean required. Elective.

NUR 319. Nrsg Informatics for RNs. 3 sem. hrs.
This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. Theory. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102.

NUR 324. Fundmntl Prof Nursing Practice. 9 sem. hrs.
Integration of knowledge, theories, and skills from the humanities, arts, and sciences serves as the foundation for this introductory clinical course. Students will develop adult assessment skills including the health history, physical, psychosocial, and spiritual aspects necessary for critical thinking in professional nursing practice. The nursing process will be presented as a framework for critical thinking, decision making, and nursing practice. Levels of prevention will be introduced as a model for health care. (Theory and laboratory).

NUR 326. Pharmacology Nursing Practice. 3 sem. hrs.
The purpose of this course is to introduce the student to the role of pharmaceutical agents in assisting with the individual's adaptation to stressors. A brief history and a discussion of the legal controls that regulate the field of pharmacology are included. Drug prototypes are utilized to examine the major classifications of drugs. Included in each drug classification is a discussion of pharmacokinetics, therapeutic uses, adverse reactions, precautions and contraindications. The special considerations of groups of individuals who may be receiving drug therapy are also included. Health teaching and nursing implications for each drug classification are emphasized. (Theory).

NUR 328. Inq for Evi-Based Prac in Nurs. 3 sem. hrs.
This course introduces nursing students to key terminology, elements and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, articulation of the importance of research for improving practice and the health of society, and for advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency is required for a passing grade in this course. (Theory)
Prerequisite(s): NUR 324 NUR 326.

NUR 329. Inq. Evidence Based Pract RNS. 3 sem. hrs.
This online course designed for registered nurses introduces key terminology, elements and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, articulation of the importance of research for improving practice and the health of society, and advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course. (Theory)
Prerequisite(s): NUR 319 or NUR 309; and NUR 348.

NUR 345. Perioperative Nursing. 3 sem. hrs.
This elective course is designed to give students an opportunity to participate in multiple nursing roles in the perioperative environment. These activities are planned to enrich the student's knowledge and provide application of concepts relevant to operative and anesthesia standards of care.
Prerequisite(s): NUR 324.

NUR 348. Role Tran in Baccalaureate Nur. 4 sem. hrs.
This online theory course designed for registered nurse students is structured to provide the foundation for continuing development of the students' body of conceptual and practical knowledge essential for enacting the professional nursing roles. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course. (Theory)
Prerequisite(s) with concurrency: NUR 319.

NUR 350. Crit Think & Clin Judgment. 2 sem. hrs.
This course provides opportunities for students to gain skills and knowledge on advanced clinical problem solving and decision making.
Prerequisite(s): NUR 324 and NUR 326.

NUR 357. Health Care in Mexico. 3 sem. hrs.
The purpose of this Summer Study Abroad course is to expose students in various disciplines to health care across the lifespan in Mexico. The course will focus on Mexican health care concepts, health care delivery, and health policy.

NUR 372. Prof Nursing Practice-Adults. 8 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems in adults and to determine actions that will ameliorate or reduce the consequences of adult disease through support or rehabilitation. Clinical experiences are designed to develop skills for early detection, diagnosis, and treatment of acute and chronic health problems in adults and prevention of further disability. (Theory and laboratory).

NUR 374. Prof Nurs Pract Mental Health. 4 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems across the lifespan and to determine actions that will ameliorate or reduce the consequences of mental-health problems. Students will develop skills in detection, diagnosis, and treatment of mental health problems across the lifespan. These mental-health nursing skills are designed to improve the mental health of patients and to prevent further disability. (Theory and laboratory).

NUR 391. Emergency Room Nursing. 3 sem. hrs.
This elective course focuses on chronic emergent and urgent interventions in actual and potential health problems of adults. Clinical experiences are designed to improved mastery of nursing psychomotor skills.
Prerequisite(s): NUR 372.

NUR 418. Prof Nurs Pract Childbear Fami. 4 sem. hrs.
This course focuses on the role of the nurse in providing holistic care to the childbearing family. The student will be given simple to complex situations during class/clinical experiences in which to assist childbearing families to adapt. A major focus will be on the three levels of prevention in the implementation of nursing care to childbearing families who are experiencing a normal maturational process as well as related acute/chronic health problems. (Theory and laboratory).

NUR 420. Prof Nursing Practice-Children. 4 sem. hrs.
This course focuses on actions designed to detect and intervene in actual or potential health problems in children and to determine actions that will ameliorate or reduce the consequences of disease in children through support or rehabilitation. Students will develop skills in early detection and diagnosis of disease in children and treatment of acute and chronic health problems that will prevent further disability. (Theory and laboratory).

NUR 422. Prof Nursing Pract Comm Health. 4 sem. hrs.
This nursing course focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. (Theory and laboratory).

NUR 449. Community Health For RNs. 5 sem. hrs.
This online course designed for registered nurses focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. Theory and Laboratory.
Prerequisite(s): NUR 319 and NUR 348.

NUR 455. Leadership & Management Roles. 5 sem. hrs.
This online course designed for registered nurses focuses on leadership theory and management functions essential to professional nursing. The application of leadership and management principles through completion of a leadership project comprises the clinical experience for the course. Theory and Laboratory.
Prerequisite(s): NUR 319; and NUR 348; and NUR 329.

NUR 465. Complex Client Sys RNs. 5 sem. hrs.
This online synthesis course, designed for registered nurses, provides opportunities for the registered nurse student to examine complex acute and chronic health problems across levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Activities will focus on nursing actions used to intervene in care of complex clients. Theory and Laboratory.
Prerequisite(s): NUR 309 or NUR 319; and NUR 343 or NUR 348; and NUR 328 or NUR 329; and NUR 449.

NUR 471. Prof Nurs Pract Complex Client. 4 sem. hrs.
This synthesis course provides opportunities for the student to examine complex acute and chronic health problems across the levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Clinical activities will focus on nursing actions used to intervene in care of complex clients. Writing proficiency within this discipline is required for a passing grade in this course. (Theory and laboratory).

NUR 473. Leadership Prof Nursing Practi. 7 sem. hrs.
This course focuses on leadership theory and management functions essential to professional nursing. Skills essential to this role development are communication, collaboration, negotiation, delegation, coordination, and evaluation of interdisciplinary work, and the application of outcome-based practice models. Clinical experiences focus on enactment of the professional nurse role in a concentrated practicum in secondary or tertiary prevention care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking, and decision-making. (Theory and laboratory).

NUR 474. Honors Prof Nrsg Practice. 7 sem. hrs.
This course focuses on leadership theory and management functions essential to professional nursing. Clinical experiences focus on enactment of the professional nurse roles in a concentrated practicum in secondary or tertiary care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking and decision-making. The honors section will complete an in-depth comparison of quality improvement models for health care management. Subsequent application of a selected model in a rural health care delivery system will be implemented and reported in a scholarly paper. (Theory and laboratory).

NUR 475. Preparation For Licensure. 1 sem. hr.
This synthesis course provides opportunities for the student to assess his/her knowledge acquisition and to implement strategies with faculty assistance to ameliorate deficiencies and maximize learning. Students will have the opportunity to use individual, group, and technology-based methods to facilitate critical thinking and problem-solving using client situations. Students will also complete the licensure application process. (Theory).

NUR 479. Indep Study Licensure Prep. 1 sem. hr.
This independent study course provides opportunities for students to assess individual knowledge acquisiton and to implement strategies to ameliorate deficiencies and maximize learning with faculty assistance. Students will have opportunity to use individual and technology-based methods to facilitate critical thinking and problem solving using hypothetical client situations. Students also will comple te the licensure application process.
Prerequisite(s): NUR 471 and NUR 473.

NUR 480. Ind Study: Lic Prep II. 1 sem. hr.
This independent study course provides opportunities for students to assess individual knowledge acquistion and to imolement strategies to ameliorate deficiencies and maximize learning with faculty assistance.
Prerequisite(s): NUR 479.

Operations Management (OM) Courses

OM 300. Intro Operations Management. 3 sem. hrs.
This course is an introduction to the field of operations management and addresses the design and management of the activities and resources that a firm uses to produce and deliver its products or services. Topics include operations strategy, product and process design, total quality management, statistical quality control, supply chain management, location analysis, forecasting, inventory management, operations planning, and lean/JIT business processes.
Prerequisite(s): ST 260.

OM 310. Introduction Management Scienc. 3 sem. hrs.
Concepts of management science and their application to decision making. Topics include linear programming, transportation models, integer programming, dynamic programming, queuing theory, decision theory, and network models.
Prerequisite(s): OM 300.

OM 321. Prod Planning & Contrl. 3 sem. hrs.
The planning and control of production and service systems. Attention is given to forecasting, operations planning, scheduling, materials management, and operations control.
Prerequisite(s): OM 300.

OM 360. Comparative Production Systems. 3 sem. hrs.

OM 375. Statistical Quality Control. 3 sem. hrs.
Statistical methods useful in control of quality of manufactured products. Topics include Shewhart and cumulative sum control charts; process capability analysis; and acceptance sampling procedures by attributes and variables. Emphasis is on understanding, design, implementation, and interpretation of these techniques.

OM 385. Information Tech Oper Mgt. 3 sem. hrs.
Introduction to the components of management information systems and applications of computer-based systems to business decisions. Open only to OM majors or by permission of the instructor. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): ST 260 or ST 250 and ST 251.

OM 417. Logistics Management. 3 sem. hrs.
Logistics deals with the planning and control of material flows and related information in organizations. This course covers logistics systems planning, organization, and control of these activities with a special emphasis on quantitative aspects of the decisions.
Prerequisite(s): OM 300.

OM 420. Computer Simulation. 3 sem. hrs.
The use of simulation as a tool to understand and improve the performance of complex systems and processes. Students will learn the details of a specific simulation language. Applications to production processes and operational activities. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): OM 310.

OM 422. Operations Scheduling. 3 sem. hrs.
A broad investigation into a variety of scheduling activities in a variety of environments. Topics include scheduling as applied to projects, job-shops, assembly lines, parallel machine systems, workforce, and transportation.
Prerequisite(s): OM 321.

OM 423. Inventory Management. 3 sem. hrs.
Control techniques for the large multi-item inventories frequently associated with manufacturing supply and wholesale-retail operations. The limitations and usefulness of models in actual practice.
Prerequisite(s): OM 321.

OM 425. Effective Quality Management. 3 sem. hrs.
Provides a broad understanding of the philosophies and methods used to enhance organizational effectiveness in a wide range of organizational settings.

OM 427. Purchasing and Sourcing. 3 sem. hrs.
Course covers fundamental purchasing systems applications, supplier relations and evaluation, strategic planning in purchasing, purchasing techniques, value analysis and cost analysis.
Prerequisite(s): OM 300.

OM 450. Process Mgmt & Improvement. 3 sem. hrs.
An analytical study of strategies, tactics, and techniques for designing, evaluating and analyzing, controlling and improving processes. Emphasis is on topics such as Design for Flexibility, Lean, Six Sigma, Constraint Management will all be included along with process application of OM analytical tools such as simulation, queuing analysis, and value stream mapping.
Prerequisite(s): OM 300.

OM 487. Capstone Project Seminar. 3 sem. hrs.
Course addresses the design, operation, and continuous improvement of business operations that deliver products and services. Students will work in teams on an operations oriented project with a local company. The student teams will provide periodic reports and presentations on their project work.
Prerequisite(s): OM 300.

OM 491. Independent Study. 3 sem. hrs.
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): OM 300.

OM 492. Internship In Operations Mgt. 1-3 sem. hr.
Students are selected through a competitive process for assignments in approved business or public sector organizations.

OM 497. Special Topics. 3 sem. hrs.

Philosophy (PHL) Courses

PHL 100. Intro To Philosophy. 3 sem. hrs.
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge. Offered in the fall and spring semesters.

PHL 104. Critical Thinking. 3 sem. hrs.
Introduction to the concepts and methods used to identify, construct, and assess arguments as they appear in editorials, articles, ordinary speech, etc.

PHL 106. Honors Introduction to Deductive Logic. 3 sem. hrs.
This course examines some of the formal techniques developed by philosophers and mathematicians to distinguish a good argument from a bad one. It is a self-paced course using both computer-aided learning techniques and one-on-one guidance from the instructor and the teaching assistants. The Honors version of Introduction to Deductive Logic expects mastery of more concepts, tools, and techniques of formal deductive logic than the standard version.
Prerequisite(s): MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR PLMA 190 OR ACT 28 OR SAT 690.

PHL 112. Phil. and the Law: Civil Law. 3 sem. hrs.
Explores issues in property law and in tort law, such as the notion of intellectual property and what should count as negligence. Open only to Freshmen.

PHL 140. Philosophy and the Law. 3 sem. hrs.
Philosophy and the Law explores philosophical questions arising in three separate areas: criminal law, constitutional law, and civil law. We will consider theories about what kinds of behavior should be criminal and what (if an anything) morality should have to do with the criminal law. We will also consider what restrictions the constitution ought to place on the state's efforts to enforce the criminal law by searching someone's residence or keeping him under surveillance, and whether those restrictions should differ when the crime is an act of terrorism. Under civil law, we will discuss the concepts of negligence and fraud.

PHL 191. Honors Introduction to Philosophy. 3 sem. hrs.
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge.

PHL 195. Introduction to Deductive Logic. 3 sem. hrs.
This is a course in deductive logic. We will focus on some formal tools for evaluating arguments. To make an argument is to offer reasons to believe some claim. More formally, an argument is a pair of things: a set of sentences, the premises; and a sentence, the conclusion. An argument is valid if it meets the following condition: it is necessary that if all its premises are true, its conclusion is true. In this class, you will learn about how to use two symbolic languages to write arguments, how to construct proofs of conclusions, and how to tell when arguments are not valid.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125.

PHL 201. Ancient Phl. 3 sem. hrs.
History of philosophy from Thales to Aristotle. Offered in the fall semester.

PHL 211. Ancient Philosophy. 3 sem. hrs.
This course will focus on the major themes of ancient Greek philosophy, from the earliest pre-Socratic philosophers, through Plato and Aristotle, to the later Epicureans, Stoics, and Skeptics. We will proceed chronologically and pay special attention to the systematic connections between metaphysics, epistemology, and ethics in each school of thought, as well as the development of later views in light of criticisms of earlier ones. The aim of this course is to provide students a reasonably comprehensive background in the main areas of Western analytic philosophy through an examination of some of the earliest systematic philosophies.

PHL 212. Early Modern Philosophy. 3 sem. hrs.
This course will look at the main figures and intellectual developments of the early Modern period of philosophy. We will proceed chronologically, starting with Descartes's,seminal Meditations on First Philosophy and tracing two very different branches of influence from there to what are often called the Rationalist and Empiricist schools. Other figures,of note will be Locke, Leibniz, Berkeley, Hume, and Kant.

PHL 215. American Philosophy. 3 sem. hrs.
Relatively few courses are offered on American philosophy, in spite of the fact, that the United States has become a worldwide center of philosophy, and is the home of Pragmatism, one of the three major philosophical approaches. This course will be an introduction to American philosophy from the theologian Jonathan Edwards and the political philosophers who had a hand in the founding of America, to classic pragmatists such as Peirce, James and Dewey, and leading 20th century thinkers, such as Quine, Kuhn, Rorty, Putnam and others.

PHL 220. Political Philosophy. 1 or 3 sem. hr.
What are the proper aims of government, and the proper scope of its power? The views of Aristotle, Locke, Mill, and Marx will be explored, as well as the implications for current issues such as civil rights, income redistribution and welfare programs, and the protection of the environment.

PHL 221. Honors Introduction to Ethics. 3 sem. hrs.
This course is designed to give the students a broad introduction to the field of philosophical ethics. The primary aim is to acquaint students with the basic subject matter of ethics as it is studied within philosophy, a few central authorities and positions, and a feel for how philosophers engage with contemporary ethical issues in light of some of the historical influences on the discipline. We will read a variety of texts ranging from historical works on ethics generally to contemporary works focusing on specific moral issues. The hope is that students will develop an understanding and appreciation of how different ethical theories apply to particular cases, and how they might begin to engage in genuine ethical debates. Admission to UA Honors is required.

PHL 223. Medical Ethics. 3 sem. hrs.
This class provides an introduction to the philosophical study of applied ethics by way of a discussion of,topics related to the practice of medical and biological science. Topics of discussion will include abortion, stem cell research, cloning, the allocation of scarce or limited resources, animal experimentation, and patient, autonomy, among others. Along the way, other important topics in moral philosophy will be discussed.

PHL 230. Political Philosophy. 3 sem. hrs.
This course serves as an introduction to central debates in political philosophy. The major questions we explore are the following: How can the coercive authority the government exercises over its citizens be justified? What does justice require in our society today? What role do democracy, freedom, rights, and equality play in our understanding of a just society? Through the study of both historical and contemporary texts, we investigate these topics. We also consider how these issues bear upon debates in the contemporary American context concerning the following: restrictions on free speech, participation in the democratic process, the war on drugs, homelessness, education, and socioeconomic inequality.

PHL 231. Social Justice in Practice. 1 sem. hr.
What does justice require in our society today? With a focus on contemporary social and political issues, we seek to answer this question by looking at different dimensions of justice. We consider how the ideals of democracy, freedom, rights, and equality ought to inform our understanding of a just society. In particular, we focus on how these ideals translate into practice with respect to philosophical debates about immigration, poverty, political participation, and socioeconomic inequality.,In addition to learning about these issues in the class-room, students will develop a deeper understanding of social justice through engagement with a community project. The service-learning component of the course involves regular participation in a community program working with disadvantaged and/or marginalized populations.
Prerequisite(s) with concurrency: PHL 230.

PHL 234. Social Philosophy. 3 sem. hrs.
How should we live together? In this course, we seek to answer this question through moral assessment of the institutional rules and cultural norms that shape our interaction with others and the world around us. We specifically consider issues in the following two categories: I. Markets & consumption. In the modern-day economy, we must grapple with important issues concerning the responsibilities of individual consumers and corporations, what goods may be legitimately bought and sold in a free market, and how economic transactions between nations should be structured to count as fair. II. Violence. One of the features thought to make the state distinctive is that it has a monopoly over the legitimate use of force. Given this power, we will examine the legitimate use of violence by the government. Is the death penalty justified? Is the use of torture permissible under any circumstances? How should it deal with terrorists as opposed to traditional combatants in war?

PHL 236. Intro Philosophy Of Science. 3 sem. hrs.
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 241. Philosophical Issues in Criminal Law. 3 sem. hrs.
Philosophical Issues in Criminal Law explores two general questions: what kinds of behavior should be criminal, and how should we determine what happens to someone who is convicted of a criminal offense. These are pursued with the help of three theorists, John Stuart Mill, Patrick Devlin and David Lyons.,More specific topics include how the criminal law should treat assisting someone who is committing suicide, how “consent” is to be defined where sexual offenses are concerned, and whether judges should hear “victim impact statements.”

PHL 242. Philosophical Issues in Civil Law. 3 sem. hrs.
A philosophical exploration of selected topics in tort law. The aim is for you to work toward reasoned positions of your own about the law concerning these issues.

PHL 243. Philosophical Issues in Constitutional Law. 3 sem. hrs.
The government is expected to enforce the criminal law, and to protect us from terrorism. However, the Constitution restricts what the government may do in carrying out these responsibilities. We will be concerned with what those restrictions ought to be, with regard to such matters as searching someone’s apartment, questioning someone in public, tapping a phone, conducting physical surveillance of a public place, and eliciting a confession to a crime. We will also think about how, if at all, the restrictions on these should be different when the government is fighting terrorism than when it is fighting crime. We will use the language in the Constitution and in leading legal decisions to help us think about these questions.

PHL 256. Philosophy of Sport. 3 sem. hrs.
This course will examine some of the major themes in the burgeoning field of philosophy of sport, paying special attention to a number of important ethical issues. We will look at the nature of sports (and games more generally), sportsmanship and fairness, the role of officials, gender equity, racism, and issues surrounding the use of performance-enhancing drugs. This course is reading intensive. Prior exposure to philosophy is welcome but not required.

PHL 260. Mind and Nature. 3 sem. hrs.
This course is framed around two questions. First, what is the place of the mind in nature? Second, what is the place of nature in the mind? The first question is a form of mind/problem, which concerns the relationship between mental phenomena such as consciousness and the physical world. The second question is a part of the epistemology, the philosophy of knowledge, and concerns the nature and scope of human knowledge.

PHL 264. Introduction to Metaphysics. 3 sem. hrs.
Topics may include proofs for the existence of God, the nature of reality, free will and determinism, personal identity, and the nature of time.

PHL 281. Introduction to Philosophy of Religion. 3 sem. hrs.
This course is an introduction of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality.

PHL 286. Introduction to Philosophy of Science. 3 sem. hrs.
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 290. Special Topics in Philosophy. 1-3 sem. hr.
This course offers introductory-level study of a special philosophical topic that is not a part of the Department’s regular course offerings.

PHL 291. Aesthetics. 3 sem. hrs.
In this course, we will be introduced to some of the most fundamental concerns about art: What is distinctive, if anything, about the experience of artworks? Why do we identify anything as a work of art? How do we, or should we interpret an artwork? On what grounds can we criticize an artwork?

PHL 292. Introduction to Ethics. 3 sem. hrs.
Introduction to competing views of how one ought to live, designed to promote the development of a reasoned view of one’s own. May include such topics as ethical relativism, the nature of justice and of rights, and the relationship of law and morality.

PHL 305. Symbolic Logic. 3 sem. hrs.
This course aims to improve students’ understanding of the basic concepts of formal logic, particularly the truth-functional and predicate calculi. Students learn convenient methods of formal reasoning, and use them to study some of the basic notions of metalogic. B- or better in PHL 195 or C or better in PHL 106, or Instructor’s permission is required.
Prerequisite(s): B- or better in PHL 195 or C or better in PHL 106.

PHL 309. Teaching Practicum. 3 sem. hrs.
This course number is for students who are receiving course credit for working as TAs for philosophy classes. Ordinarily, students working as TAs for classes are responsible for taking roll, proctoring and grading tests, and, most importantly, providing tutorial assistance to the students. Specific duties might vary depending on the needs of the class.

PHL 312. Contemporary Philosophy. 3 sem. hrs.
Philosophy in the 20th century. Topics may include linguistic analysis, logical atomism, logical positivism, ordinary language philosophy, existentialism, and phenomenology.

PHL 332. Theories of Justice. 3 sem. hrs.
Advanced study of prominent theories of prominent historical and contemporary theories of justice (for example, those of Plato, Aristotle, Rawls, or Nozick) and the implication of those theories for political problems such as the distribution of health care, affirmative action, or public goods.

PHL 333. Global Justice. 3 sem. hrs.
In an increasingly globalized world, questions of global justice have risen to prominence in contemporary political philosophy. In this course we examine the following issues. Do the demands of justice transcend state borders? Do we have reason to think that different demands of justice apply at the global level than at the state level? How do increased levels of global interdependence bear upon what we owe to foreigners versus to our fellow citizens? Does the global order harm the world’s poor? Are there any universal human rights? If so, how are they justified and who is responsible for upholding them? Drawing on competing contemporary philosophical accounts of justice, we consider different ways of addressing concrete practical issues such as global poverty and inequality, humanitarian intervention, and immigration. You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above. If you do not meet this requirement, you must obtain special permission from the instructor. This 3-credit hour course carries a W designation. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite(s): two PHL classes or instructor’s permission.
Prerequisite(s): Two PHL classes or instructor’s permission.

PHL 336. History of Philosophy: David Hume. 3 sem. hrs.
This course is an extended investigation into the works of one of the great philosophers in the history of the West, David Hume.

PHL 360. Philosophy of Mind. 3 sem. hrs.
What is the relationship between the mental and the physical? That is the central question in the philosophy of mind, and we will approach it from different angles. We will focus largely on consciousness and its place in nature. Most readings will be from the contemporary literature but some will be historical. This course carries a W designation, and so writing proficiency within the discipline of philosophy is required for a passing grade in this course. Two philosophy courses or instructor’s permission. PHL 260 Mind and Nature is recommended but not required.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.

PHL 362. Mind, Language, and Reality. 3 sem. hrs.
This course concerns the nature of meaning and its connection to metaphysics and epistemology. We will study classic works by Gottlob Frege, Bertrand Russell, Saul Kripke, and others. We will also study more recent work in philosophical semantics and its application to arguments in the philosophy of mind. Writing proficiency within this discipline is required for a passing grade in this course. Must have taken Introduction to Deductive Logic (PHL 195 or 106) and one other philosophy course, or have instructor’s permission.
Prerequisite(s): PHL 195 OR PHL 106 and one other PHL course.

PHL 364. Philosophy of Cognitive Science. 3 sem. hrs.
This course addresses some core questions in the philosophy of cognitive science. Topics covered are likely to include: the computational theory of mind, the role of mental representations in cognition, the extended mind hypothesis, and mechanisms of mental state attribution. Writing proficiency is required for a passing grade in this course. Need to have taken at least two previous philosophy courses.

PHL 366. Metaphysics. 3 sem. hrs.
Advanced study of such traditional metaphysical problems as personal identity, the mind-body problem, action theory, free will, universals, the nature of space and time, creation, causation, and purpose. Must have taken at least two philosophy courses prior to this course.

PHL 370. Epistemology. 3 sem. hrs.
This course surveys issues in the philosophical study of knowledge. Typical questions addressed include: What is the nature of knowledge? What are the limits of what we can know? When is a belief justified? What can science tell us about the nature of knowledge or rational thought? Must have taken at least two philosophy courses prior to this course. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.

PHL 381. Philosophy of Religion. 3 sem. hrs.
Advanced study of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality. At least two previous philosophy courses required.

PHL 387. Philosophy and Evolution. 3 sem. hrs.
The "Darwinian Revolution" – the acceptance and development of evolutionary theory - is one of the most significant intellectual events in recent human history. It is significant partly because it has changed the way we understand the world, and the processes that operate within it. But it is also significant for the philosophical issues it raises about scientific method, conceptions of human nature, biodiversity, knowledge, ethics and the arts. This course will examine these philosophical issues raised by the Darwinian revolution. Writing proficiency within this discipline is required for a passing grade in this course.

PHL 390. Special Topics in Philosophy. 1-3 sem. hr.
This course offers advanced study of a special philosophical topic or movement that is not a part of the Department's regular course offerings.

PHL 391. History of Philosophy. 3 sem. hrs.
Advanced study of a particular philosopher or philosophical movement or problem in the history of philosophy. Must have taken at least two previous philosophy courses or permission of instructor.

PHL 392. Special Topics in Philosophy (Writing Intensive). 3 sem. hrs.
With an emphasis on philosophical writing, this seminar offers advanced study of a special philosophical topic that is not a part of the Department's regular course offerings. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite: successful completion of at least two PHL courses.
Prerequisite(s): At least two previous philosophy courses required.

PHL 409. Research in Philosophy. 1-3 sem. hr.
This course is an opportunity to do self-directed study and writing in an approved topic.

PHL 420. Special Studies in Ethics. 3 sem. hrs.
Advanced study of current topics in ethics, which could include study of a particular moral theory or moral problem.

PHL 428. Metaethics. 3 sem. hrs.
In this seminar we will explore issues in contemporary metaethics. Metaethics is concerned with the nature of moral properties, what moral claims mean, and how moral knowledge can be justified. In our everyday lives, we make a number of moral judgments—for instance, that we should not lie to a friend or that it is wrong to steal. Can these moral judgments be factually true, or are they just a matter of opinion? How do we come to know what is right or wrong? These are some of the key questions that will be explored in this course.

PHL 440. Seminar on Law. 3 sem. hrs.
The Fifth Amendment says that "No person…shall be compelled in any criminal case to be a witness against himself." What that means depends on what it is to be "a witness against" yourself, and on what it means to compelled to be one rather than being induced in some other way to do so. ,We will pursue what those terms ought to mean, if there is to be a rule of this kind. We will also consider the reasons for having such a rule, whether (in the end) they are good enough to mean we should have one, and whether the rule should apply when the state is fighting terrorism or only when it is fighting ordinary crime.
Prerequisite(s): PHL 292 OR PHL 221 OR PHL 243.

PHL 448. Philosophy of Law. 3 sem. hrs.
This is a seminar on the nature of law and legal systems. Classic positions to be explored include the natural law theory, legal positivism, legal realism, and the theory advanced by Ronald Dworkin. Specific topics to be explored include the idea that there is an obligation to obey the law, what it is for a judge to follow precedent, and whether legal systems should include juries. The course concludes with a negotiation exercise. Please note that writing proficiency within this discipline is required for a passing grade in the course. You must write coherent, logical, and carefully edited prose, and you must argue clearly and well for the positions you take.
Prerequisite(s): PHL 241 or PHL 242 or PHL 243 or PHL 225 or PHL 226 or PHL 227 or PHL 200 or PHL 202.

PHL 455. Philosophy through Documentary. 3 sem. hrs.
This course aims to deepen philosophical understanding primarily through watching and discussing documentary films, supplemented with philosophical readings. The topics covered will vary with the films chosen by the instructor.

PHL 490. Special Topics in Philosophy. 1-3 sem. hr.
This course offers advanced study of a philosophical topic or movement that is not a part of the Department's regular course offerings. At least two previous philosophy courses or permission from instructor required.

Physics (PH) Courses

PH 101. General Physics I. 4 sem. hrs.
Lecture and laboratory. An introductory course including classical mechanics and thermodynamics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145.

PH 102. General Physics II. 4 sem. hrs.
Lecture and laboratory. An introductory course including electricity and magnetism, optics, and modern physics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): PH 101 or PH 105 or PH 125.

PH 105. General Physics W/Calc I. 4 sem. hrs.
Lecture and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 125 or MATH 145.

PH 106. Generl Physics W/Calc II. 4 sem. hrs.
Lecture and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): MATH 126 or MATH 146; and PH 101 or PH 105 or PH 125.

PH 111. Intro Physics Seminar. 1 sem. hr.
Lecture series on current topics in Physics. Open to all undergraduates. A broad intro to exciting developments in modern physics at an intro level. Faculty will present recent developments including student suggestions.

PH 115. Des Ph Non-Science Maj. 4 sem. hrs.
Credit earned in this course may not be counted toward fulfillment of the requirements for the major or minor in physics. Credit will not be granted for both PH 101 and PH 115. Three lecture hours and one laboratory period. Demonstration lectures on the chief topics of classical and modern physics. Designed for non-science majors who want an introductory course with no math prerequisites.

PH 125. Honors Gen Ph W/Calculus. 4 sem. hrs.
Lecture, discussion, and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.
Prerequisite(s): MATH 125 or MATH 145.

PH 126. Honors Gen Ph W/Calculus. 4 sem. hrs.
Lecture, discussion, and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.
Prerequisite(s): MATH 126 or MATH 146; and PH 105 or PH 125.

PH 253. Intro Modern Physics. 3 sem. hrs.
Study of topics in modern physics, including special relativity, quantum physics, atomic and nuclear structure, and solid state physics.
Prerequisite(s): MATH 126 or MATH 146; and PH 102 or PH 106 or PH 126.

PH 255. Modern Physics Lab. 1 sem. hr.
Experimental work in the topics that form the subject matter of PH 253.
Prerequisite(s) with concurrency: PH 253.

PH 301. Mechanics I. 3 sem. hrs.
Vector analysis and treatment of Newtonian mechanics at the intermediate level.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 302. Intermediate Mechanics. 3 sem. hrs.
Treatment of Newtonian mechanics at the intermediate level, including central forces, lagrangians, normal modes, and waves. Designed for students planning graduate study in physics or astronomy.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 331. Elect & Magnetism I. 3 sem. hrs.
Electrostatics, Ampere's and Faraday's laws, vector potential, displacement current, and Maxwell's equations.
Prerequisite(s): PH 102 or PH 106 or PH 126
Prerequisite(s) with concurrency: MATH 238.

PH 332. Elect & Magnetism II. 3 sem. hrs.
Continuation of electricity and magnetism beginning with Maxwell's equations.
Prerequisite(s): PH 331.

PH 354. Intermediate Modern Physics. 3 sem. hrs.
Continuation of PH 253. Applications of quantum mechanics, including lasers, semiconductors, particle physics, nanoscience, and other current topics.
Prerequisite(s): PH 253.

PH 405. Physics For Science Teachers. 3 sem. hrs.
Selected topics in contemporary physics for high-school and post-secondary science teachers.

PH 411. Biophysics. 3 sem. hrs.
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, bionanotechnology. Emphasis on systems that are best understood in physical and molecular detail.

PH 434. Digital Electronics. 3 sem. hrs.
Two laboratory periods. Theory and practical application of digital integrated circuits, including gates, flip-flops, counters, latches, and displays. Computer data acquisition and control using LabView and A/D and D/A fundamentals.
Prerequisite(s): PH 334.

PH 441. Quant Struct Matter I. 3 sem. hrs.
No graduate credit will be awarded for PH 441. Introduction to quantum mechanics, including solutions to the Schrodinger equation.
Prerequisite(s): PH 253 and PH 331 and PH 301 or PH 302.

PH 442. Quant Struct Matter II. 3 sem. hrs.
No graduate credit will be awarded for PH 442. Continuation of quantum mechanics with applications in atomic, molecular, solid state, and nuclear physics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 441.

PH 461. Nuclear Particle Physics. 3 sem. hrs.
Stable nuclei, isotopes, nuclidic masses, alpha decay, phase space, gamma ray transitions, Yukawa forces, isotopic spin, scattering, resonance behavior, the quark model, heavy flavors, Higgs bosons, and the electroweak theory.
Prerequisite(s): PH 441.

PH 471. Thermal Physics. 3 sem. hrs.
Introduction to thermal phenomena on a macroscopic and a statistical basis, and principles and laws governing them.
Prerequisite(s): MATH 227 or MATH 247 and PH 253.

PH 481. Solid State Physics. 3 sem. hrs.
Phenomenological treatment of mechanical, thermal, electrical, and magnetic properties of matter and fluorescence, phosphorescence, photo-conductivity, and work function; the free-electron model and the band approximation; structures of simple crystals.
Prerequisite(s): PH 441.

PH 482. Topics Physics & Astronomy. 1-3 sem. hr.
Topics in physics and astronomy not covered by existing courses. Repeat credit is allowed for different topics.

PH 490. Honors Seminar In Physics. 1 sem. hr.
A seminar course on current topics in physics and astronomy.

PH 491. Advanced Laboratory. 3 sem. hrs.
Two laboratory periods and 1 hour of seminar. Experimental work in modern physics at an advanced level. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 255.

PH 493. Intro To Research. 1-3 sem. hr.
Credit is by arrangement, but no graduate credit will be awarded for PH 493. Student performs research under supervision of a faculty member.

PH 495. Independent Study I. 1-3 sem. hr.

PH 496. Independent Study II. 1-3 sem. hr.

Polish (POL) Courses

POL 101. Elementary Polish. 3 sem. hrs.
Contemporary Polish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

Political Science (PSC) Courses

PSC 101. Intro American Politics. 3 sem. hrs.
Survey of the principles, political institutions, and practices of American national, state, and local politics.

PSC 102. America & The World. 3 sem. hrs.
Examination of the political factors external to the United States that affect the American political system. Attention is given to the nature of foreign policy, the processes and substance of American foreign policy, and the ways that actions by foreign governments affect the United States.

PSC 103. Intro Public Policy. 3 sem. hrs.
Survey of problems encountered by American governmental units in fields such as agriculture, welfare, education, health, and business regulation.

PSC 201. Scope Political Science. 3 sem. hrs.
Survey of the political processes and institutions of contemporary societies and an introduction to the concepts and concerns of political research.

PSC 202. Politcl Science Methods. 3 sem. hrs.
Introduction to the conduct of political inquiry and methods of political research.

PSC 203. Comparative Politics. 3 sem. hrs.
Theoretical approaches to the comparative study of national political systems.

PSC 204. International Relations. 3 sem. hrs.
Survey of the evolution of the modern state system and the basic forces in international relations.

PSC 205. Political Theory. 3 sem. hrs.
Survey of fundamental concepts in political theory such as liberty, equality, and authority.

PSC 206. Public Administration. 3 sem. hrs.
Study of the administrative principles and practices in the areas of organization, personnel management, budgeting, government regulation, and democratic controls.

PSC 211. State & Local Govt. 3 sem. hrs.
Study of the institutions and functions of American state and local governments and their relationship to the political process.

PSC 311. Pol Party & Elections. 3 sem. hrs.
Activities of parties and pressure groups in American politics. Attention is given to the social composition, organization, finance, and nominating processes of parties.

PSC 312. Amer Legislative Syst. 3 sem. hrs.
Examination of the constitutional and theoretical foundations of Congress and state legislatures, emphasizing problems of structure, procedure, leadership, and legislative reform.

PSC 313. The American Executive. 3 sem. hrs.
Examination of the role of the president, governors, and local executives in the American political system.

PSC 314. Amer Judicial System. 3 sem. hrs.
Introductory analysis of judicial organization, processes, and behavior, with emphasis on the institutional characteristics of the courts.

PSC 316. Southern Politics. 3 sem. hrs.
Examination of the party system of the Southern states in terms of its origin, nature, distribution of power, and impact on national politics.

PSC 318. Constitn Law Limits Gov Power. 3 sem. hrs.
Study of the constitutional foundations of federalism and the separation of powers, with emphasis on the role of the Supreme Court.
Prerequisite(s): PSC 101.

PSC 319. Con Law Civ Rts and Libs. 3 sem. hrs.
Study of the Constitution's protections for civil rights and civil liberties, and the Supreme Court's interpretations of them.

PSC 320. Special Studies In Psc. 1-3 sem. hr.
Supervised independent reading and research.

PSC 321. Special Topics In Psc. 3 sem. hrs.
Course content varies from offering to offering. May be repeated for a maximum of 12 hours, with permission of the department.

PSC 330. Democratization. 3 sem. hrs.
Examination of democratization processes and outcomes in different areas of the world, as well as success and failure in institutionalizing fully democratic systems.
Prerequisite(s): Sophomore standing or permission of the instructor.

PSC 332. Lat Am Political Syst. 3 sem. hrs.
Analysis of the contemporary distribution of political power in Latin America. Special attention is given to nation-state building, praetorianism, and revolution.

PSC 333. Soviet Post Sov Politics. 3 sem. hrs.
Study of institutions and processes in the USSR and the post-Soviet republics, with attention to concepts of authoritarianism, systemic change, and democratization.

PSC 334. Government Politics West Europ. 3 sem. hrs.
Analysis of the democracies of Western Europe. Attention is given to participation, societal cleavages, elections, parties, government institutions, policy making, and the European Union.

PSC 335. Soc Movements & Cont Politics. 3 sem. hrs.
Examination of social movements. Particular attention will be paid to the impact of movements on political processes.

PSC 342. For Pol Sov Un Suc State. 3 sem. hrs.
Examination of the influence of the Soviet Union in the evolution of the international system as well as the interests and strategies of Russia and other successor states.

PSC 343. US Relations with Latin Amer. 3 sem. hrs.
U.S. relations with Latin America since the end of the Cold War-democracy, drug trade, and immigration.

PSC 353. Modern Political Thought. 3 sem. hrs.
Key political theorists from the sixteenth to the nineteenth centuries. Assigned texts may vary, but typically include works by Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx, and Nietzsche. Topics include conceptions of a just society, the state, the value of political participation, liberty, and equality.

PSC 361. Fiscal Policy & Budget. 3 sem. hrs.
Study of governmental revenue and expenditure policies with emphasis on the budget as a method of administrative and fiscal control.

PSC 362. Organization Theory. 3 sem. hrs.
An examination of traditional and contemporary organizational theory and its application to public administration.

PSC 364. African Amer & Polit Sys. 3 sem. hrs.
A historical and contemporary assessment of the political, social and economic development of African-Americans in the American political system.

PSC 399. Internship In Psc. 3-6 sem. hrs.

PSC 411. Public Opinion. 3 sem. hrs.
The formation, distribution, structure, properties, and techniques of measuring public opinions in the United States.

PSC 413. Amer Foreign Policy. 3 sem. hrs.
Examination of the forces and processes affecting United States foreign relations. Attention is also given to the content and problems of contemporary American foreign policy.

PSC 422. Seminar Political Science. 3 sem. hrs.
May be repeated for a maximum of 6 hours. Selected problems in various areas in political science. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 433. Communism Europe 1945-89. 3 sem. hrs.
Examination of the interaction of Marxist theory and practice in various national settings. Attention is given to the differential evolution of parties and regimes and to reasons for the dissolution of communist systems.

PSC 434. Internatl Polit Econom. 3 sem. hrs.
The course deals with the international trade and finance regimes, foreign economic policy, transnational corporations in the world economy, North/South and East/West relations, and the implications of economic interdependence.

PSC 435. War And Peace. 3 sem. hrs.
Study of the causes of war at the individual, societal and international levels of analysis with particular emphasis on international relations research using the scientific method.
Prerequisite(s): PSC 204 or PSC 413.

PSC 436. Non-Communst East Europe. 3 sem. hrs.
An examination of the political issues, processes, and institutions, primarily in the formerly communist states of East-Central Europe.

PSC 437. Post Communism. 3 sem. hrs.
Examination of processes of democratization and reversion to authoritarianism in East Central Europe and Eurasia. Political, social, and economic alterations of communist arrangements are discussed. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 438. Govt and Politics of S. Asia. 3 sem. hrs.
Examination of South Asian states. Attention is given to the legacies of colonialism, political institutions, democratization, economic development, political conflict and regional security.
Prerequisite(s): PSC 203.

PSC 441. Terrorism. 3 sem. hrs.
Explores the definition and dynamics of domestic and international terrorism, terrorist ideas and terrorist organization, and the political problems of suppressing terrorism.

PSC 442. Internatl Conflict. 3 sem. hrs.
Examination of the various kinds of violent conflicts in which nation-states become involved.

PSC 443. Comparative Pub Policy. 3 sem. hrs.
Analysis of domestic policy in advanced industrialized democracies, looking at both policy process and policy substance. Attention will be given to the questions of how and why policies differ across countries, and how one might evaluate policy performance cross-nationally. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 444. International Organizations. 3 sem. hrs.
An examination of the essential structures and processes in international organizations, both governmental and nongovernmental, and their roles in the area of global security, economy, and social welfare. Writing proficiency within this discipline is required for a passing grade in this course.

PSC 446. Political Economy of Security. 3 sem. hrs.
The course will cover a variety of topics that link security and political economy. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PSC 204.

PSC 448. Human Rights & Institutions. 3 sem. hrs.
This class examines how domestic and international institutions create incentives or constraints leading to human rights violations or protections from a social science perspective.

PSC 452. American Political Thought. 3 sem. hrs.
Investigates primary sources and secondary literature covering the origin and direction of the U.S. political ideology. Topics typically include liberalism, civic republicanism, and debates between contemporary scholars concerning American exceptionalism.
Prerequisite(s): PSC 205.

PSC 455. Political Traditions and Dilemmas. 3 sem. hrs.
This course is a sustained examination of the history of political thought in the western tradition coupled with philosophical investigation into contemporary issues.

PSC 462. Public Personnel Admin. 3 sem. hrs.
Study of the American public personnel system at the local, state, and national level. Emphasis is on such areas as the political activity of government employees, the application of the principle of equal opportunity and affirmative action, and the role of collective bargaining in government.

PSC 464. The Politics of Health Policy. 3 sem. hrs.
We examine health policy at all levels of government, with particular focus on the interdependence of the national, state, and local governments to provide health services. The political environment of health policymaking and implementation is explored. Health policies such as Medicaid, Medicare, and the Affordable Care Act will be examined, as well as other policies that impact health. We examine the policymaking process in general, applying health policy to the concepts and theories. We compare the US health care system with systems in other industrialized democracies.
Prerequisite(s): Approval of academic advisor and at least junior status.

Portuguese (POR) Courses

POR 101. Elementary Portuguese I. 3 sem. hrs.
Contemporary Portuguese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

POR 102. Elementary Portuguese II. 3 sem. hrs.
Contemporary Portuguese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): POR 101.

POR 201. Intermed Portuguese I. 3 sem. hrs.
Continuation of Portuguese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): POR 102.

POR 202. Intermed Portuguese II. 3 sem. hrs.
Continuation of POR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.
Prerequisite(s): POR 102.

Psychology (PY) Courses

PY 101. Intro To Psychology. 3 sem. hrs.
Basic principles of psychology.

PY 105. Honors Intro Psychology. 3 sem. hrs.
Honors section of PY 101.

PY 155. Creativity. 3 sem. hrs.
This course will introduce students to creativity and creative problem solving from both a theoretical and applied focus.

PY 207. Psychology Of Adjustment. 3 sem. hrs.
Basic principles of mental health and an understanding of the individual models of behavior.
Prerequisite(s): PY 101 or PY 105.

PY 211. Elem Statistical Methods. 3 sem. hrs.
Methods are presented that enable students to make inferences about a population from a knowledge of small samples. Offered each semester and in the summer session.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 and PY 101 or PY 105.

PY 228. Applied Psychology. 3 sem. hrs.
Examination of current uses of Psychology.
Prerequisite(s): PY 101 or PY 105.

PY 313. Sensation and Perception. 3 sem. hrs.
Physiological and psychophysical aspects of the senses.
Prerequisite(s): PY 101.

PY 321. Professional Issues Proseminar in Psychology. 1 sem. hr.
Course orients psychology majors to career opportunities for psychology majors terminating with a BA or BS, as well as those students moving on to post-graduate work.
Prerequisite(s): PY 101 or PY 105.

PY 352. Developmental Psych. 3 sem. hrs.
Physical, intellectual, emotional, and social development throughout the life span.
Prerequisite(s): PY 101 or PY 105.

PY 355. General Experimental Psychology. 3 sem. hrs.
Scientific methods applied to the problems of psychology.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 356.

PY 356. Research Laboratory. 2 sem. hrs.
Application of experimental and statistical techniques in a laboratory setting.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 355.

PY 358. Abnormal Psychology. 3 sem. hrs.
Etiology, symptomatology, and treatment of the major mental behavioral disorders.
Prerequisite(s): PY 101 or PY 105.

PY 361. Psychology Of Learning. 3 sem. hrs.
Theoretical and applied implications of principal findings in learning, memory, and cognition.
Prerequisite(s): PY 101 or PY 105.

PY 365. Psychology Of Aging. 3 sem. hrs.
The intellectual, social, cognitive, and physical development in adulthood with special emphasis on late adulthood.
Prerequisite(s): PY 101 or PY 105.

PY 368. Intro To Personality. 3 sem. hrs.
A study of theories that represent the psychoanalytic, neopsychoanalytic, trait, life span, humanistic, cognitive, behavioral and social-learning approaches to understanding human behavior. Clinical and experimental data are used to evaluate representative personality theories.
Prerequisite(s): PY 101 or PY 105.

PY 371. Psychology Of Gender. 3 sem. hrs.
Review of the contribution of psychological theories and research to the understanding of sex differences in general and to women's roles in particular.
Prerequisite(s): PY 101 or PY 105.

PY 372. Social Psychology. 3 sem. hrs.
Major aspects of social psychology, including aggression, altruism, attitude change, interpersonal relations, prejudice, leadership, and group dynamics.
Prerequisite(s): PY 101 or PY 105.

PY 375. Special Topics In Psychology. 3 sem. hrs.
Courses devoted to topics not currently covered in the Psychology curriculum will be offered under this title.
Prerequisite(s): PY 101 or PY 105.

PY 377. Psych Law And Justice. 3 sem. hrs.
Psychological interpretations of criminality, treatment of offenders, and the roles of psychologists and psychological issues in the justice system.
Prerequisite(s): PY 101 or PY 105.

PY 378. Junior Honors Seminar. 3 sem. hrs.
The course is the first semester of a four-semester honors sequence. Exposure to research methods and opportunites for research within the Department of Psychology.
Prerequisite(s): PY 355
Prerequisite(s) with concurrency: PY 355.

PY 379. Junior Honors Seminar. 3 sem. hrs.
The course is the second semester of a four-semester honors sequence. Preparation of a research proposal and approval of thesis committee is required.
Prerequisite(s): PY 378.

PY 413. Physiological Psych. 3 sem. hrs.
Bodily structures (nervous, muscular, and glandular) underlying behavior.
Prerequisite(s): PY 355.

PY 451. Undergraduate Research. 1-3 sem. hr.
Individual research projects. A maximum of 6 credit hours may be earned in PY 451.
Prerequisite(s): PY 355.

PY 461. Child Psychology. 3 sem. hrs.
Observational and research procedures with infants and young children, with emphasis on operant learning and socialization processes. Suggested for undergraduate seniors.
Prerequisite(s): PY 355.

PY 470. Intro Cognitive Psychlgy. 3 sem. hrs.
Contemporary approaches to cognitive psychology, including topics such as attention and memory.
Prerequisite(s): PY 355.

PY 471. History Systems In Py. 3 sem. hrs.
Systematic points of view in psychology, with a consideration of their historical origins and significance for modern thought.
Prerequisite(s): PY 355.

PY 478. Senior Honors Seminar. 3 sem. hrs.
The course is the third semester of a four-semester honors sequence. Implementation of an approved research proposal.
Prerequisite(s): PY 379.

PY 479. Senior Honors Seminar. 3 sem. hrs.
The course is the final semester of a four-semester honors sequence. Preparation and defense of senior honors thesis.
Prerequisite(s): PY 478.

PY 481. Readings In Psychology. 1-3 sem. hr.
Selected supervised readings. May be repeated for a maximum of 6 hours.
Prerequisite(s): PY 105 or PY 101 or PY 355 or PY 356.

PY 491. Seminar In Psychology. 3 sem. hrs.
Thorough examination of a selected contemporary psychological area. Different topics are offered each semester; descriptions are available at registration. Writing proficiency within this discipline is required for a passing grade in this course. Offered each semester and in the summer session. May be repeated for a maximum of 6 hours.
Prerequisite(s): PY 355 and PY 356.

PY 495. Teaching Internship. 3 sem. hrs.
Supervised experience and training in teaching, course administration, etc., as additional preparation for students planning to pursue graduate study in psychology.

Reading Education (CRD) Courses

CRD 369. Fundmntl Readng Instruction. 3 sem. hrs.
Introduction to literacy development, instruction, and assessment for elementary school children. Foundational concepts of literacy instruction and best-practice are covered. A field component is required.

CRD 400. Teach Readg Diverse Learn K-12. 3 sem. hrs.
A foundation in the materials and methods for teaching of reading and language arts K-12, with emphasis on intervention programs, assessment, and instruction for individual and small groups of students. Intensive field experience is required.

CRD 412. Impr Read Second Schools. 3 sem. hrs.
Study of methods and strategies for teaching reading at the secondary and junior-college levels. Methods of teaching word attack and comprehension skills are emphasized. Diagnostic techniques, study skills, and teaching reading in the content areas are also covered. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program.

Religious Studies (REL) Courses

REL 100. Intro To Religious Studies. 3 sem. hrs.
Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures. This course is required of all majors and minors.

REL 101. West Approach Prob Evil. 3 sem. hrs.

REL 102. Intro to Religions of the World. 3 sem. hrs.
This comparative study of religions highlights complexity in world religions. Topics, such as texts, practices, and deities, organize the study of different pairs of religions.

REL 105. Honors Intro Relig Stdy. 3 sem. hrs.
Honors version of REL 100.

REL 110. Intro To The Hebrew Bible. 3 sem. hrs.
Introduction to the books of the Hebrew Bible in their historical setting, with emphasis on textual analysis and on literary forms and their function and use in the past and present.

REL 112. Intro To New Testament. 3 sem. hrs.
Introduction to the Hellenistic world of early Christianity, examining the early traditions about Jesus that were organized into the Gospels and the letters of Paul.

REL 124. Religion & Film in America. 3 sem. hrs.
Uses film as the way into understanding the religious scene in America's broad set of ideas, symbols, social movements, and institutions that affect and are affected by the wider American culture.

REL 220. Survey Of Asian Religion. 3 sem. hrs.
Introductory survey of the major religious traditions of Asia, including Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

REL 223. Holocaust Historical Perspecti. 3 sem. hrs.
Examination of this event, and scholarship on it, from various historical and critical perspectives.

REL 224. Judaism. 3 sem. hrs.
A study of some of the leading schools and interpreters of Judaism and a review of modern developments including the Holocaust and the state of Israel.

REL 226. African Diaspora Religions. 3 sem. hrs.
Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African-American religions in North America), focusing on the interplay between religion, culture and politics.

REL 228. Hy Of Christian Thought. 3 sem. hrs.
The major theological orientations that have shaped Christianity in various social and historical contexts.

REL 231. Religious Existentialism. 3 sem. hrs.
Examines answers offered by such writers as Kierkegaard, Dostoevsky, Buber, Weisel and Tillich, to such questions as: What is the meaning of existence? What is the meaning of my existence? What does it mean to exist authentically in religious terms?

REL 234. Women And Religion. 3 sem. hrs.
The role and place of women in several religious traditions, ancient and modern.

REL 235. Native American Relig. 3 sem. hrs.
Surveys the histories, beliefs, and practices of Native American religions as found in various geographical regions throughout the Americas (e.g., the Aztecs, Lakota, Muskogee, Cree, and Hopi).

REL 236. Islam. 3 sem. hrs.
An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.

REL 237. Self Society & Religions. 3 sem. hrs.
A survey of psychological and social theories used to study religion, drawing on different cultural and historical data of relevance to the approaches surveyed.

REL 238. Philosophies Of Judaism. 3 sem. hrs.
Survey of major philosophical formulations of the nature and role of Jews and Judaism, written by select Jewish thinkers.

REL 240. Apocalypse In Contemporary Fil. 3 sem. hrs.
Examines contemporary portrayals of the end times in popular films.

REL 241. Historical Overview of Religions in America. 3 sem. hrs.
This course offers a survey of religious themes and movements in American culture from the period before European colonization to the present. reactivate.

REL 245. Historical Overview of Religions in America. 3 sem. hrs.
This Honors course offers a survey of religious themes and movements in American culture from the period before European colonization to the present.

REL 311. English Bible As Literature. 3 sem. hrs.
Analytical and critical study of a number of books of the Bible; each book is examined and evaluated as an example of a particular literary genre. Writing proficiency within this discipline is required for a passing grade in this course.

REL 321. Rel & Ident in South Asia. 3 sem. hrs.
Investigates the intersections of various social divisions and identities with religious labels and practices by analyzing case studies from South Asia.

REL 332. Contemp Jewish Thought. 3 sem. hrs.
Examination and analysis of modern Jewish reformulations of divinity, revelation, redemption, election, etc., in critical contrast to classical Jewish and Greek traditions.

REL 340. Nietzsche and Religion. 3 sem. hrs.
Examines the major writings on religion of Friedrich Nietzsche (1844-1900), with special attention to the relationship between religion, rhetoric, language, culture, and power.

REL 341. Theories of Myth. 3 sem. hrs.
Examination of the history of differing theories of myth, conceived as a sub-type of narrative.

REL 347. Jewish-Christian Relations. 3 sem. hrs.
Critical examination of the 2,000-year-old relationship focusing on areas of commonality and difference.

REL 360. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 361. Individual Research. 3 sem. hrs.
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 370. Adv Study Religion In Culture. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 371. Adv St American Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 372. Adv Stdy Mid East European Rel. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of May be repeated for a maximum of 9 hours for differing topics.

REL 373. Adv Stud Asian Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 410. Religion of Genocide. 3 sem. hrs.
Explores the phenomenon known as genocide by examining its relationship to the religion in both its institutional and theological frameworks.

REL 415. Religion in the American South. 3 sem. hrs.
This course will look at the roles and implications of myths and rituals in the American South, using the UA campus as its own case study and talking about how notions of "the past" come to be invented in different ways for different social purposes through memorials and monuments. Along with learning about specific religious groups and practices that find their homes in the region, students will tackle analytical classifications and contestations of "the South" as an identifiable geographical and cultural space. *Because the course carries the Core "W" designation, writing proficiency is required for a passing grade. An important component of the seminar is the mastering the steps in the writing process, which we will be utilizing throughout the semester. These steps include brainstorming, drafting, peer editing, and revising.
Prerequisite(s): This course is limited to 16 participants. Prerequisites include two courses in Religious Studies or permission of the instructor. Religious Studies 415 will be conducted as an advanced undergraduate seminar, so writing proficiency is required and is a necessary component of successful completion of the course.

REL 419. Myth Ritual And Magic. 3 sem. hrs.
Examination of the theories and methods used to study the relations between religious narrative and behavioral systems. Writing proficiency within this discipline is required for a passing grade in this course.

REL 420. Gospel Of Mark. 3 sem. hrs.
Investigates the Gospel of Mark through the disciplines of contemporary biblical, literary, and cultural criticism. Writing proficiency is required for a passing grade in this course.

REL 430. Religion and Literature. 3 sem. hrs.
This course will examine religion and literature in light of what both discourses rely heavily on: namely, canon formation. From a critical starting point that views these two categories as socio-cultural products, we will discuss problems of authorship, readership, and canonicity with a particular eye toward the questions and implications of decisions that are made regarding what “counts” in literary or religious traditions. To that end, we will read novels whose status in a literary and/or cultural canon was questionable and contested for one reason or another. In some cases, the texts prompted obscenity trials; in others, the texts were published posthumously or with some debate over authorship; and in others, the texts blur boundaries of genre. In every case, however, the legitimacy or importance of the narrative is subject to careful and often controversial legislation. We will read several novels but will also trace critical interventions into these issues of authority, voice, and identity, with readings from thinkers such as Roland Barthes, Michel Foucault, Gayatri Spivak, John Guillory, and Toril Moi. Writing proficiency within this discipline is required for a passing grade in this course.

REL 440. Theories of Religion. 3 sem. hrs.
Examines classic and contemporary theories of religion such as functionalism, structuralism, Marxism, and psychoanalysis. Emphasis may vary with each offering.

REL 460. Individual Research. 3 sem. hrs.
Supervised research of the student’s choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 461. Individual Research. 3 sem. hrs.
Supervised research of the student’s choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 480. Seminar Religion In Cullture. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 483. Seminar Asian Religion. 3 sem. hrs.
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 490. Senior Capstone Seminar. 3 sem. hrs.
A seminar offered spring semester of each year for seniors pursuing a major or minor in religious studies or minor in Judaic studies. The professor and subject of the seminar rotate through the four areas of the curriculum. Required of all majors and minors in the Department. May be repeated for a maximum of 9 hours for differing topics.

Restaurant, Hotel and Meetings Management (RHM) Courses

RHM 105. Nutrition for Hospitality Man. 3 sem. hrs.
Lecture and discussion introducing students to nutrition principles to evaluate and modify menus and recipes, as well as respond knowledgably to customers questions and needs.
Prerequisite(s): RHM 175.

RHM 175. Intro Hotel Restaurant Hosp Mg. 3 sem. hrs.
Introduction to the theory, functions, and principles of management in the restaurant, food service, and lodging industry. Examination of basic operational systems and problems related to the industry.

RHM 180. Effective Hospitality Communcn. 1 sem. hr.

RHM 185. Intro Meetings Events Ind. 3 sem. hrs.
Introduction to the structure, stakeholders and principles of management in the meetings and events industry. Examination of basic planning and production elements for meetings and events.

RHM 241. Mgt Of Food/Beverage Operation. 3 sem. hrs.
Course focuses on how to profitably manage a food service operation in order to satisfy guests. Students learn how to give guests the highest priority as the details of food and beverage operations are planned, implemented, and evaluated.

RHM 251. Hospitality Employee Suprv/Mgt. 3 sem. hrs.
Focuses on information managers need in order to recruit, select, and train employees; increase productivity; control labor costs; effectively communicate; manage conflict and change; and use time management techniques.

RHM 284. International Food Safety. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety and security functions in food service operations. Explore food safety issues like nanotechnology, emerging packagin, irradiation, food recalls, international food safety, food terrorism and genetically modified foods.
Prerequisite(s): RHM 175.

RHM 285. Food Safety And Risk Managemen. 3 sem. hrs.
Principles and techniques used in managing sanitation, safety, and security functions in food service and lodging operations. Outlines sanitation and risk management programs that help hospitality operations provide quality products and services, comply with regulations, and improve the bottom line.

RHM 286. Prof Develp Hospitality Manage. 1-3 sem. hr.
Provides students with new and diverse experiences to increase their understanding of the restaurant, hotel and meetings management program. Class discussions, assigned readings, lectures, tours, and presentations by RHM faculty.

RHM 290. Food and Beverage Trends. 3 sem. hrs.
ServSafe Alcohol Certification course and tests are administered. Students are exposed to food and beverage trends at the Annual National Restaurant Association Show.
Prerequisite(s): RHM 175.

RHM 300. Event Plan Wedding Coordinator. 3 sem. hrs.
This course reviews the interdependent functions of event planning for weddings. Students will learn about the decisions, problems and concerns of planning effective wedding events. They will design, plan and execute a wedding from start to finish.

RHM 303. Mgn Quality In Hosp Industry. 3 sem. hrs.
Designed to acquaint students with quality and leadership issues facing today's hospitality industry. Students learn the principles of the Malcolm Baldridge National Quality Award, the concepts of continuous improvement, quality service, power and empowerment, communication skills, goal setting, teams, diversity, and managing organizational change. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 313. Contemporary Club Management. 3 sem. hrs.
Introduces students to the unique world of private club management. Focus on issues club managers face on a daily basis.

RHM 321. Tourism & Hospitality Industry. 3 sem. hrs.
Explores the broad range of factors that influence and affect tourism. Includes research and marketing methods.

RHM 322. Cruise Tourism. 3 sem. hrs.
Exploration & evaluation of the North American Cruise Industry to incude vacation cruising, economics, life aboard for passengers and crew, analysis of marketing campaigns and internet resources.
Prerequisite(s): RHM 175.

RHM 325. Lodging Operations & Managemnt. 3 sem. hrs.
Systematic approach to front-office and housekeeping management procedures. Emphasis is on reservations, billing and collection, housekeeping, and maintenance operations.
Prerequisite(s): RHM 175.

RHM 332. Front Office Management. 3 sem. hrs.
Introduces concepts of front-office management that affect other operating departments. Discusses techniques in managing the front office to ensure operational goals are attained.

RHM 345. Operations Mgt Gaming Ind. 3 sem. hrs.
RHM 175 or permission of instructor This course is designed to increase the understanding of the casino industry through visits to casino operations, hotels, and restaurants located with casinos. The course includes class discussions, assigned readings, lecture tours, and presentations by leading casino executives.
Prerequisite(s): RHM 175.

RHM 355. Hospitality Industry Training. 3 sem. hrs.
Student learns how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help the hospitality organization attain its operational goals and objectives.

RHM 356. Human Resources Management. 3 sem. hrs.
Explains how to meet the requirements of various labor laws, to include the Americans with Disabilities Act (ADA), as well as other employment and workplace laws. Explores strategies for attracting a wide range of applicants, minimizing turnover, and reducing productivity losses.

RHM 370. Event Marketing. 3 sem. hrs.
Students learn how to market to the Event Target Audience; anticipate client needs; and understand the event business and its unique value position and differentiation.
Prerequisite(s): RHM 175.

RHM 375. Managing Catering Operations. 3 sem. hrs.
Theory and techniques of professional catering with hands-on activities involved with the planning, organizing, and implementation of special catered events.

RHM 377. Restaurant Management & Servic. 3 sem. hrs.
Principles and methods of producing and serving quality food in restaurants. Writing proficiency is required for a passing grade in this course. Writing proficiency within this discipline is required for a passing grade in this course.

RHM 380. Convention Trade Show Manageme. 3 sem. hrs.
A comprehensive analysis of trade shows. Emphasis is on organizing, arranging, and operating trade shows and conventions. Visits to trade shows are required.

RHM 385. Event Lead. Prog, Prob Solving. 4 sem. hrs.
Students gain knowledge, skills and experience in planning, executing, evaluating and problem solving with a variety of events on the UA campus. Students work with a minimum 10 hours per week with the University Union.

RHM 387. Hotel/Motel Security Managemen. 3 sem. hrs.
Exploration of security issues, concerns and practices affecting hospitality properties. Covers the physical security of the property asset protection, guest protection, security equipment, emergency management and procedures, and OSHA requirements.

RHM 390. Great Hotels of AL. 3 sem. hrs.
Students increase their understanding of the hotel industry through visits to Great Hotels in Alabama. Course includes class discussion, lecture tours, and presentations by leading hotel executives.

RHM 399. Prior Learning Restaur Hosp Mg. 1-30 sem. hr.

RHM 420. Hospitality Marketing. 3 sem. hrs.
Students learn how to create a sales team with creative, successful sales and marketing programs. Includes discussion on ways to sell rooms and food and beverage services to business and leisure travelers, travel agents, and meeting planners. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): RHM 175.

RHM 421. Hospitality Law. 3 sem. hrs.
Students gain an understanding of potential legal problems and how important legal considerations can affect the hospitality industry. Legal cases related to the hospitality industry are explored.

RHM 425. Risk Management for Meetings & Events. 3 sem. hrs.
A study of risk, crisis, and liability issues that may arise in the planning and management of meetings and events. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): RHM 175 or RHM 185.

RHM 446. Hospitality Purchasing. 3 sem. hrs.
Students learn how to purchase major commodities and nonfood supplies, ensuring price and product quality. Course explains how to deal effectively with suppliers and includes the managerial aspects of purchasing.

RHM 448. Bar And Beverage Management. 3 sem. hrs.
Discussion on strategies to profitably manage the bar and beverage department of the hospitality operation. Covers control systems, hiring and training, responsible alcohol service, and essential information on a wide range of beverage products.

RHM 450. Issues Hotel & Lodg. Mgmt. 3 sem. hrs.
Prerequisite(s): RHM 175.

RHM 465. Food And Beverage Controls. 3 sem. hrs.

RHM 468. Practicum In Hospitality Mgt. 1-2 sem. hr.
Students explore a variety of issues of importance to the effective management of hospitality organizations. Topics vary according to needs of students and issues facing the hospitality industry.

RHM 469. Internship Hospitality Managem. 1 sem. hr.
A semester of work experience in an approved hospitality organization for a minimum of 600 hours. Students work full-time during the semester to gain insight into hospitality management responsibilities.
Prerequisite(s): RHM 175.

RHM 474. Mangr Acct Hospitality Industr. 3 sem. hrs.
Students learn how to make effective managerial, business, and operational decisions based on a thorough understanding of financial statements; identify costs; develop realistic budgets; forecast; and plan cash flow.
Prerequisite(s): RHM 175 and AC 210.

RHM 478. Mgt Service Food Bev Operation. 3 sem. hrs.
Explores requirements in planning for and managing different types of food and beverage operations.

RHM 479. Convention Management & Servic. 3 sem. hrs.
An exploration of techniques used to increase a hospitality property's convention and meeting business through marketing and service. Students learn how to address meeting planners' needs and concerns confidentially, creatively and effectively.

RHM 480. Adv Meeting & Convention Mgt. 3 sem. hrs.
Reviews the interdependent functions of meetings and convention management. The student develops and executes a professional meeting.

RHM 485. Foundations Seminar. 3 sem. hrs.
Seminar designed for students accepted in the executive restaurant and hospitality management (ExRHM) program.

RHM 488. Individual Seminar Projects. 3-12 sem. hrs.
Individual projects designed by students to implement concepts and strategies learned in executive seminars. Project plans must be approved by RHM faculty prior to implementation.

RHM 490. Directed Individual Study. 1-6 sem. hr.

RHM 495. Capstone Senior Project. 12 sem. hrs.
A required major learning experience for ExRHM students. Project is designed by the student to include research, analysis, and synthesis of a particular topic related to hospitality industry operations. Project must be approved by RHM faculty prior to implementation.
Prerequisite(s): RHM 485.

RHM 496. RHM Senior Capstone Seminar. 1 sem. hr.
Discussion of current issues in the hotel, restaurant, and convention industries.
Prerequisite(s): RHM 175.

Russian (RUS) Courses

RUS 101. Elementary Russian I. 4 sem. hrs.
This course introduces students to the basics of Russian: alphabet, pronunciation, elementary vocabulary, and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.

RUS 102. Elementary Russian II. 4 sem. hrs.
This course builds upon the foundation established in RUS 101and continues with the acquisition of elementary vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.
Prerequisite(s): RUS 101.

RUS 201. Intermediate Russian I. 3 sem. hrs.
This course builds upon the foundation established in RUS 101and RUS 102 and continues with the acquisition of intermediate level vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course introduces students to short literary texts.
Prerequisite(s): RUS 102 or RUS 111.

RUS 202. Intermediate Russian II. 3 sem. hrs.
This course builds upon the foundation established in RUS 101, RUS 102, and RUS 201 and completes the acquisition of basic vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course continues the use of short literary texts and introduces students to higher-style literary forms.
Prerequisite(s): RUS 201.

RUS 211. Study Tour Russia. 3 sem. hrs.
A tour of Moscow, St. Petersburg, and other cities of the former Soviet Union. Focus is on Russia's art and architecture and on the diverse peoples of the former U.S.S.R. and their way of life. Students who have studied Russian have an opportunity to use it.

RUS 223. Russian Literature in Translation I. 3 sem. hrs.
Survey of Russian literature including the Golden Age until the 1880s.Authors read include Pushkin, Gogol, Lermontov, Dostoevsky, Turgenev and Tolstoy. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 224. Russian Literature in Translation II. 3 sem. hrs.
Survey of Russian literature from the 1880s until the present. Authors read include Bunin, Babel, Bulgakov, Zamyatin, Pasternak and Solzhenitsyn. No knowledge of Russian is required. Usually offered in the spring semester.

RUS 229. Russian Drama. 3 sem. hrs.
Introduction to the classics of Russian drama. No knowledge of Russian is required.

RUS 251. Russian Culture. 3 sem. hrs.
Topics may include geography, law, science, agriculture, literature, sports, cinema, peasants, icons, the Russian Orthodox Church, Ukrainian Easter egg art and other folk art and crafts, foreign policy, food and cooking, entertainment, etc. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 252. Russian Folklore. 3 sem. hrs.
Survey of the various genres of Russian folklore including the folk epics, historical songs, fairy tales, and proverbs as well as an introduction to various folk beliefs. No knowledge of Russian is required.

RUS 309. Adv Russian Converstn I. 3 sem. hrs.
Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.
Prerequisite(s): RUS 202.

RUS 310. Adv Russian Converstn II. 3 sem. hrs.
Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.

RUS 325. Dostoevsky. 3 sem. hrs.
The life and works of Fyodor Dostoevsky. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

RUS 326. Tolstoy. 3 sem. hrs.
The life and works of Leo Tolstoy. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

RUS 327. Chekhov. 3 sem. hrs.
The life and works of Anton Chekhov. No knowledge of Russian is required.

RUS 328. Nabokov. 3 sem. hrs.
Introduction to the life and major works of Nabokov. Writing proficiency is required. No knowledge of Russion required.

RUS 329. Solzhenitsyn. 3 sem. hrs.
This course will cover the life and major works of Alexander Solzhenitsyn. Writing proficiency within this discipline is required for a passing grade in this course. No knowledge of Russian is required.

RUS 351. Russia to 1894. 3 sem. hrs.
Russia to 1894.

RUS 352. Russia and SU since 1994. 3 sem. hrs.
Russia and the Soviet Union since 1894.

RUS 361. Adv Rus Grammar Comp I. 3 sem. hrs.
The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.
Prerequisite(s): RUS 202.

RUS 362. Adv Rus Grammar Comp II. 3 sem. hrs.
The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.
Prerequisite(s): RUS 361.

RUS 401. Directed Readings. 1-3 sem. hr.

RUS 402. Directed Readings. 1-3 sem. hr.

RUS 425. Readings In Russian Press. 3 sem. hrs.
Topics of current interest, such as the social sciences, the economy, the environment, medicine and health, and the arts. Development of passive vocabulary.
Prerequisite(s): RUS 310 or RUS 362.

RUS 426. Readings in Russian History. 3 sem. hrs.
This course introduces students to advanced texts in Russian thematically focused on Russian history.
Prerequisite(s): RUS 101 and RUS 102 and RUS 201 and RUS 202 and RUS 361 and RUS 362.

RUS 427. Business Russian. 3 sem. hrs.
Acquisition of business Russian used in commercial transactions. Emphasis is on business letters and business conversation.
Prerequisite(s): RUS 310 or RUS 362.

RUS 440. Russian Phonetics. 3 sem. hrs.
Linguistic analysis of the Russian sound system in conjunction with practice in Russian pronunciation.

Sanskrit (SAN) Courses

SAN 101. Elementary Sanskrit. 3 sem. hrs.
Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

SAN 102. Elementary Sanskrit. 3 sem. hrs.
Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook and listen to assigned audio materials (CDs, or computer sound files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

Secondary Curriculum, Teaching and Learning (CSE) Courses

CSE 390. Instructn Accomd Sec Sch. 3 sem. hrs.
The course focuses on evaluating teaching and learning behaviors and on general teaching competencies.
Prerequisite(s) with concurrency: CSE 493 and BEF 360 and BEP 360.

CSE 401. Tech for Teaching Sec. Math. 3 sem. hrs.
Examines and explores various existing and emerging classroom technologies for specifically teaching secondary mathematics topics including but not limited to spreadsheets, hand-held & computer graphing technologies, dynamic geometry software, computer algebra systems and data collection devices. Fall only.
Prerequisite(s): MATH 227 and ST 260 CS 102 OR CSE 390.

CSE 406. Curriculm Secondary Math. 3 sem. hrs.
Future secondary mathematics teachers examine advanced concepts, structures, and procedures that comprise secondary mathematics. This course focuses on current issues and trends in the curriculum, teaching, and learning of secondary mathematics with emphasis on the investigation and implementation of current reform efforts. Offered spring semester only.
Prerequisite(s): CSE 401 Admission to Teacher Education Program.

CSE 455. Adolescent Literature. 3 sem. hrs.
Study of contemporary literature for young adults, with emphasis on high- interest and high-quality literature from diverse authors.

CSE 469. Pedagogical Grammar. 3 sem. hrs.
This is a practical course intended to enhance the student's understanding of the structure of the English language. The course is designed to encourage a thorough study of grammar and its role in the English language arts curriculum, to explore the psycholinguistic nature of language processes, and to develop methods of instruction for the classroom.

CSE 470. Teaching Writing 6-12. 3 sem. hrs.
This course is designed to prepare prospective English teachers to successfully teach and evaluate writing in grades 6-12.

CSE 476. Improving Science Teaching. 3 sem. hrs.
Examination and evaluation of appropriate technologies for the secondary science curriculum. Technologies will include CD-ROM and Internet-based simulations and databases, Web pages and other Internet resources, multimedia presentations, and calculator-based laboratories.
Prerequisite(s): CS 102 OR CSE 390.

CSE 479. Teach Second Sch English. 3 sem. hrs.
Methods and media essential to effective instruction of English in the secondary school.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: BER 450 and CRD 412 and CSE 489.

CSE 480. Teach Sec Sch Forgn Lang. 3 sem. hrs.
Theories, methods, techniques, and essential media for teaching foreign languages effectively in the secondary school. Offered fall semester only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CSE 483. Teach Second School Math. 3 sem. hrs.
The course presents primarily methods and instructional strategies of teaching mathematics, but necessarily includes a study of selected topics in mathematics. Offered fall semester only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CSE 486. Teach Second Sch Science. 3 sem. hrs.
Instructional strategies and media essential to effective learning of science in the secondary school. Content includes objectives, inquiry teaching, analysis of curricula, assessment, teaching for diversity, science-thinking skills, unit planning, and laboratory management. Offered only fall semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to Teacher Education Program
Prerequisite(s) with concurrency: CSE 489.

CSE 487. Teach Second Soc Science. 3 sem. hrs.
This course will use a reflective teaching model for examining the history, issues, and contemporary practices related to teaching middle- and high- school social science.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: BER 450 and CRD 412 and CSE 489.

CSE 489. Clinicl Exper Second School. 3 sem. hrs.
Observation and participation experiences in secondary schools. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: Appropriate methods course.

CSE 493. Diversity Block Seminar. 1-3 sem. hr.
A reflective teaching model will be used to explore differences in race, class, gender, and academic achievement as they affect classroom interaction and academic success.
Prerequisite(s) with concurrency: CSE 390 and BEF 360 or BEP 360.

CSE 497. Sec School Teaching. 3-12 sem. hrs.
Observation and teaching of the major subject in the secondary school.
Prerequisite(s): Admission to Teacher Education Program.

Social Work (SW) Courses

SW 100. Intro Fields SW Pract. 3 sem. hrs.
An overview of the many and varied roles in which social workers function in today's society. Reviews the historical development of the profession, its various fields of practice, the profession's code of ethics, and covers current national and local issues. Fifteen hours of volunteer work outside of class are required. Required course for social work majors and social welfare minors; open to all University students, but freshmen and sophomores preferred. Offered in the fall and spring semesters.

SW 101. Orientation to Social Work. 1 sem. hr.
The purpose of this course is to orient new social work majors to the School of Social Work (SSW) to promote student academic success. Emphasis is on the advising process and establishing an educational plan, professional etiquette, steps in applying for admission to the professional program, the BSW program=s writing proficiency exam, and campus resources.

SW 105. Introduction to the Fields of Social Work Practice. 3 sem. hrs.
Social Work 105 is an introductory course that presents a comprehensive overview of the profession of social work and social workers' roles in contemporary society. This course is designed for students seeking advanced professional orientation and development in social work. This honors course is designed to provide a critical examination of the profession's values and Code of Ethics and the major fields of social work practice. Students examine the professions's response to populations-at-risk, including people of color, women, older adults, children and adolescents, gays and lesbians, and low income populations. Each student completes a 30 clock hour service learning assignment in a social service agency. The course provides a broad base of information for further social work education and helps students decide if social work is an appropriate career for them to pursue.
Prerequisite(s): None. This is an introductory course open to all University Honors Program students. This course will fufill the Introduction to the Fields of Social Work Practice requirement for social work majors and for social welfare minors.

SW 110. Values in Society. 3 sem. hrs.
The major purpose of this course is to examine the nature of our values within the context of the American society. To achieve this purpose, we will explore and examine the history and theories of our culture and the effects of our culture on individual development.

SW 155. Freshman Seminar. 3 sem. hrs.

SW 200. History Social Welfare in US. 3 sem. hrs.
Study of the general institutional basis of social welfare: its structure, function, historical development, and the philosophical bases of the provision of social welfare services. Offered in the fall and spring semesters.

SW 205. Hist. of Soc. Wel. in the US. 3 sem. hrs.
SW 205 is open to all students in the honors college at the university. This course will meet the History of Social Welfare in the United States requirement for all social work majors. This course provides students with an opportunity to explore and critically evaluate the historical development of social welfare, the social work profession, and the philosophical basis for the provision of various social welfare services to persons throughout the life course. Students will be expected to examine the development of social welfare programs and services within a political and economic context, with particular attention to influential societal values in the United States. The students will be expected to evidence a critical understanding of the major issues affecting the provision of social welfare programs and services to vulnerable and oppressed populations.

SW 206. Growing Old In America. 3 sem. hrs.
Provides information about the aging process and the position of older persons in American society.

SW 208. Juv Delinq:Causes/Control/Serv. 3 sem. hrs.
Examination of the nature and extent of delinquency. Theories of causation and the structure and function of courts are explored. Emphasis placed on prevention, control, and interventions with juvenile offenders and their families.

SW 210. Family & Child Welfare. 3 sem. hrs.
Examines the current situation in services for children and families. Gives an overview of services designed to strengthen families, as well as those that provide substitute care of children when the family is unable to meet this responsibility.

SW 212. Death Dying Bereavement. 3 sem. hrs.
Analysis of a variety of issues and problems presented by death, dying, and grief in American culture, with some comparison to other cultures. Examines attitudes and responses to death and the perspectives of children and adults.

SW 300. Special Topics. 3 sem. hrs.
Examination of an important topic in contemporary social work. Topic varies from semester to semester.

SW 310. Professional Writing Seminar. 1 sem. hr.
This pass/fail course assists students with acquiring/improving professional writing skills.

SW 320. Volunteer Human Serv Sys. 3 sem. hrs.
The nature and development of volunteerism in human services in the United States plus current trends in the use of volunteers is discussed. Each student is assigned to a human service agency in order to experience the role of being a volunteer.

SW 345. Traumatic Stress in SW. 3 sem. hrs.
This course addresses post traumatic stress and secondary traumatic stress. It includes theory, empirical research and social work interventions. The content is provided through a variety of modes to include textbook, articles, videos, movies and lectures.

SW 351. Oppression & Soc Injustice. 3 sem. hrs.
This course examines issues related to the oppression of people on the basis of their gender, ethnicity, race, culture, sexual orientation, physical or mental ability, age, religion, and national origin. It is designed to introduce the student to a range of issues of oppression and soical and economic injustice pertinent to the field of soical welfare and to the profession of social work. This course has the University Core Curriculum "W" designation. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): At least sophomore-standing or permission of the instructor.

SW 355. Honors Oppression and Social Injustice. 3 sem. hrs.
SW 355 is open to all students in the Honors College at the University. This course will meet the Oppression and Social Injustice (SW 351)requirement for all social work majors and social welfare minors who are in the Honors College. This course critically examines issues related to the oppression of people on the basis of their gender, ethnicity, race, culture, sexual orientation, physical or mental ability, age, religion, and national origin. It is designed to introduce the student to a range of issues of oppression and social and economic injustice pertinent to the field of social welfare and to the profession of social work. Students will also be introduced to various theoretical approaches to oppression and injustice. Specific emphasis is placed on critical and reflective thinking, and an exploration of the mechanisms of priviledge and disadvantage embedded in racism, sexism, classism and other forms of systemic oppression.
Prerequisite(s): Admission into the Honors Program and at least sophomore standing.

SW 401. Soc Wel Policy & Service. 3 sem. hrs.
Seeks to develop ability to analyze programs and policies. Alternatives to present policies are explored. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SW 200.

SW 410. Human Behav Soc Envir I. 3 sem. hrs.
This is the first course in a two-semester sequence that traces the course of human growth and development through the entire life cycle. Emphasis is placed on understanding the individual in interaction with major social systems.

SW 411. Human Devel Soc Envir II. 3 sem. hrs.
A continuation of SW 410.
Prerequisite(s): SW 410.

SW 414. Chemical Dependency. 3 sem. hrs.
This course will introduce the student to major theories of addiction as well as the physiological and psychological results of substance abuse. State and federal policies regarding control of drugs, alcohol, and tobacco will also be discussed. The effects of chemical dependency on special populations, including ethnic minorities, people of color, gays and lesbians, dually diagnosed, the elderly, and women will be reviewed.

SW 419. Intl. Social Development. 3 sem. hrs.
This three credit course is designed for undergraduate and graduate students who have interest in international social development.

SW 420. Research Social Work Practice. 3 sem. hrs.
Basic research methods for social work. Focuses on role of research in building knowledge and on application of findings and techniques to generic social work practice. Offered only in the fall semester.

SW 437. Forensic Social Work. 3 sem. hrs.
This course is designed to provide students with the knowledge and critical thinking skills necessary for specialized practice in the area of forensic social work. This is the practice of social work within the criminal and civil court systems.

SW 440. Sw Pract With Indiv & Families. 3 sem. hrs.
Provides the student with the opportunity to gain knowledge, understanding, and competence needed for intervention in working with individuals and families at the beginning professional level. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester only.

SW 441. Sw Practice With Groups. 3 sem. hrs.
The student is taught the fundamentals of group process, method, and content, and is prepared for social work practice with groups at the beginning professional level. Offered in the spring semester only.
Prerequisite(s): SW 410 and SW 440.

SW 442. Sw Pract W/Communities. 3 sem. hrs.
Prepares students to secure resources for clients in the community setting. Application of problem solving to improving community life. Offered in the spring semester only.
Prerequisite(s): SW 200 and SW 410.

SW 443. Seminar Generalist Practice. 3 sem. hrs.
Required course designed to accompany field placement. Seeks to assist students in integrating foundation content with field experience, with emphasis on generalist practice. Offered only in the fall semester.
Prerequisite(s): SW 440 and SW 441 and SW 442 and SW 490
Prerequisite(s) with concurrency: SW 490.

SW 457. Special Topics. 1-6 sem. hr.
Junior standing Special topics.

SW 490. Field Education. 9 sem. hrs.
Planned field experience in which the student is placed in a community service agency for a minimum of 32 hours a week, working under the joint instruction of the agency and the School of Social Work. For senior social work majors only. Offered in the fall semester only.
Prerequisite(s): SW 401 and SW 410 and SW 440, SW 411, SW 441, and SW 442
Prerequisite(s) with concurrency: SW 443.

SW 498. Independent Study. 1-6 sem. hr.
An opportunity for individual students or groups of students to assume liberal responsibility for developing their own learning objectives in conjunction with a faculty member who has expertise in the area, and for pursuing these objectives in relation to a social welfare program or function. By permission of the instructor, program chair, and associate dean. Permission must be obtained during the preceding semester.

Sociology (SOC) Courses

SOC 101. Intro To Sociology. 3 sem. hrs.
Introduction to the scientific study of human social behavior.

SOC 202. Analysis Social Problems. 3 sem. hrs.
Study of contemporary social problems, including definition, description, and analysis. Emphasis is on social change perspectives and cultural complexity.

SOC 205. Social Psychology. 3 sem. hrs.
Not open to students who have earned credit in PY 372. Study of the interrelationships between the individual and the group. Includes perception, cognition, attribution, attitudes, helping behavior, aggression, personal relationships, prejudice, and gender in social life. Also includes aspects of applied social psychology.

SOC 210. Juvenile Delinquency. 3 sem. hrs.
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.
Prerequisite(s): SOC 101.

SOC 300. Research Methods. 3 sem. hrs.
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problems of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): SOC 101.

SOC 301. Social Statistics. 3 sem. hrs.
Elementary statistical techniques applied to sociological data; tables and graphs, central tendency and dispersion, probability and sampling, tests of significance, and measures of association.
Prerequisite(s): SOC 101 and MATH 110 or MATH 112.

SOC 302. Sociological Theory. 3 sem. hrs.
The course will provide a review of the major systems of thought about society. Special emphasis is given to historical context and philosophical background as they relate to the development of sociological theories. Students will be introduced to view points and idea about how society functions, the role of conflict in society and the forces of social change.

SOC 315. Race And Ethnic Relations. 3 sem. hrs.
Analysis of American social structure, race and ethnic relations, and demographic and institutional trends; studies of racial and ethnic issues.
Prerequisite(s): SOC 101.

SOC 350. Criminology. 3 sem. hrs.
Theories of criminality, types of delinquent and criminal behavior, crime causation, crime control by police, and the criminal courts.
Prerequisite(s): SOC 101.

SOC 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.
Prerequisite(s): SOC 101.

SOC 360. Sociology of HIV/AIDS. 3 sem. hrs.
Study of the social dimensions of HIV/AIDS. Discussions cover how HIV/AIDS is socially constructed in terms of gender, sexualities, race/ethnicity and social class. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 390. Selected Topics In Soc. 3 sem. hrs.
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; Latin American life; small-group dynamics; environmental sociology; medical sociology.
Prerequisite(s): SOC 101.

SOC 404. Health and Crime. 3 sem. hrs.
Revise title to Health and Society Do not cross list with CJ404.

SOC 405. Gender & Society. 3 sem. hrs.
A sociological approach to the study of women & men, focusing on: the social construction of genders in institutions and in everyday life, feminist theories of masculinity, gender inequality, and social change.
Prerequisite(s): SOC 101.

SOC 444. Environmental Sociology. 3 sem. hrs.
Sociological analysis of environmental issues including the background of environmental issues, population, planning, limits to growth, food and energy resources, and social impacts of environmental alterations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 450. Sociology Of Law. 3 sem. hrs.
Study of social origin and consequences of law and legal process; analysis of social factors that determine legal outcomes.
Prerequisite(s): SOC 101.

SOC 460. Body Politics. 3 sem. hrs.
Study of how human bodies are politicized in modern society. Discussions cover how the human body is politically constructed according to gender, race/ethnicity, occupation and social class. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SOC 101.

SOC 490. Seminar In Sociology. 1-3 sem. hr.
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; advanced deviant behavior; juvenile delinquent behavior; Latin American life; small-group dynamics; environmental sociology; medical sociology.
Prerequisite(s): SOC 101.

SOC 499. Ind Study in Sociology. 1-6 sem. hr.
1-6 hour independent study course allowing students to conduct sociological research under faculty supervision.
Prerequisite(s): SOC 101.

Spanish (SP) Courses

SP 101. Introductory Spanish I. 4 sem. hrs.
Five hours of instruction per week. The course is the first semester of college-level study of Spanish. Offered each year.

SP 102. Introductory Spanish II. 4 sem. hrs.
Continuation of written and oral skills in Spanish. Five hours of instruction per week. The course is the second semester of college-level study of Spanish. Conducted in Spanish. Offered each year.
Prerequisite(s): SP 101.

SP 103. Intensive Review Intro Spanish. 4 sem. hrs.
Five hours of instruction per week. Intensive review and accelerated study of Spanish language at the first- and second-semester college level. Conducted in Spanish. Offered each year.

SP 104. Spanish for Engineering. 6 sem. hrs.
An introductory course for Spanish language with an emphasis on vocabulary for Engineers.

SP 201. Intermediate Spanish. 3 sem. hrs.
Review and development of grammar and syntax; development of speaking, reading, and writing skills.
Prerequisite(s): SP 102 or SP 103.

SP 202. Intermediate Spanish. 3 sem. hrs.
Review and development of grammar and syntax; development of speaking, reading, and writing skills.
Prerequisite(s): SP 201 or placement.

SP 205. Spanish House I. 1.5 sem. hr.
One-Semester residence in Spanish House. 1.5 crs.
Prerequisite(s): Must have faculty director's permission.

SP 206. Spanish House II. 1.5 sem. hr.
One-semester residence in Spanish house for 1.5hrs crs.
Prerequisite(s): pre-req must have faculty director's permission.

SP 352. Spanish Conversation. 3 sem. hrs.

SP 353. Spanish Conversation. 3 sem. hrs.
The course is also offered in Spain as SP 352; it is not open to native and heritage speakers. Offered each semester. This is a required course for majors/minors.
Prerequisite(s): SP 202 or placement.

SP 354. Adv Grammar & Compositn. 3 sem. hrs.

SP 356. Adv Grammar And Compos. 3 sem. hrs.
The course is also offered in Spain as SP 354. Review of Spanish grammar with emphasis on written expression in Spanish. This is a required course for majors/minors. Offered each semester.
Prerequisite(s): SP 202 or placement.

SP 360. Commercial Spanish. 3 sem. hrs.
Spanish business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP 361. Intro Romance Linguistic. 3 sem. hrs.
Credit for this course is not applicable toward the requirements of the Spanish major or minor.

SP 363. Spanish Civilization. 3 sem. hrs.

SP 364. Spanish Civilization. 3 sem. hrs.
The course is also offered in Spain as SP 363. Study of Spanish artistic heritage and social and political institutions. Offered in the fall semester.

SP 366. Spanish-American Civ. 3 sem. hrs.
Study of the development of Spanish-American civilization from pre-Colombian times to the present. Offered in the spring semester.

SP 367. Technical Writing. 3 sem. hrs.
This course will teach students how to understand and write documents in technical areas usually not taught in conventional language courses. Emphasis on written expression. Students will practice and improve knowledge of spanish grammar and syntax.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP 371. Survey Of Spanish Lit. 3 sem. hrs.
Study of major works in Spanish literature from the Middle Ages through the 18th century. SP 371 and SP 372 offered in alternate semesters.

SP 372. Survey Of Spanish Lit. 3 sem. hrs.
Spanish literature from the 19th century to the present. Readings from important authors, lectures, reports, and analysis. SP 372 and SP 371 offered in alternate semesters.

SP 375. Masterpc Sp-Amer Lit I. 3 sem. hrs.
Study of selected great works in the development of Spanish-American literature from the colonial period to modernism. Offered in fall semester.
Prerequisite(s): SP 353, SP 356, and SP 366 (or SP 364); or permission of the instructor.

SP 376. Masterpc Sp-Amer Lit II. 3 sem. hrs.
Study of selected great works of Spanish-American literature from modernism to the present. Offered in the spring semester.
Prerequisite(s): SP 353, SP 356, and SP 366, (or SP 364); or permission of the instructor.

SP 390. Special Topics. 1-6 sem. hr.
Special studies on topics related to Spanish language, literature, and culture. The content of the course varies from semester to semester. A maximum of 6 credit hours may be earned in SP 390.
Prerequisite(s): SP 353 and SP 356; and (SP 364 or SP 366).

SP 426. 20th Cent Spanish Lit II. 3 sem. hrs.
Reading and discussion of complete texts representative of the literary movements of the period; lectures and reports. Offered in alternate years.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino Literature.

SP 483. Intro to Spanish Linguistics. 3 sem. hrs.
In the Introduction to Spanish Linguistics we study the Spanish language using linguistic analysis in order to discover its underlying structure, which may be taken for granted when simply speaking the language. We examine several topics, including the sound system of the language (phonology), how words are formed (morphology), how phrases and sentences are created (syntax), and how words develop different meanings (semantics and pragmatics). In addition, we discuss other areas such as the evolution of Spanish from Latin, and language variation and change (dialectology and sociolinguistics). Taught in Spanish.
Prerequisite(s): SP 353 and SP 356 or permission of instructor.

SP 484. Phonetics And Pronunciation. 3 sem. hrs.
Introduction to Spanish phonetics with emphasis on the development of correct pronunciation and basic phonetic transcription.
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino literature.

SP 485. Open Topics in Linguistics. 3 sem. hrs.
Topics vary. Sample topic History of the Spanish Language.: This course provides students with an examination of the evolution of Spanish from Latin to modern Spanish. Both internal and external factors will be addressed, including sound change, word formation, syntax and vocabulary, as well as influence from other languages. In doing so, students will be able to observe how variation in earlier forms of Spanish has lead to the creation of different dialects found in modern Spanish. Students will also have the opportunity to analyze medieval and classical Spanish texts in order to trace the development of Spanish along different levels of linguistic analysis. The role of orthography at the various stages of evolution will also be addressed. Taught in Spanish.
Prerequisite(s): SP 353 and SP 356 or permission of instructor.

SP 488. Open Topics Sp Penin Lit. 3 sem. hrs.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 489. Open Topics Sp-Amer Lit. 3 sem. hrs.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 490. Open Topics. 1-6 sem. hr.
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP 491. Cervantes. 3 sem. hrs.
In-depth study of Don Quixote. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

Special Education and Multiple Abilities (SPE) Courses

SPE 100. Except Lives in Society. 3 sem. hrs.
Introduction and overview for non-education majors regarding characteristics of diversity, exceptionalities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included. Through web-based readings/critiques, class lecture, and service learning opportunities, participants in this course will explore diverse populations from within the context of characteristics, issues and trends, cultural differences, and research. Offered fall and spring semesters.

SPE 272. Intro to Pre-K Education. 3 sem. hrs.
This course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K initiative. An overview of development, guidance, and curriculum planning will be included. Laboratory/practicum participation in a Pre-K classroom will be required.

SPE 300. Survey Spe Accomd Stratg. 3 sem. hrs.
Characteristics of all exceptionalities, and educational and behavioral adaptations for exceptional children in the general education classroom. A practicum experience that acquaints students with exceptionalities is included. Offered each semester.

SPE 302. Educatl Diagn Measurmt. 3 sem. hrs.
Introduction to group and individual assessments used for evaluating student learning and for planning instruction. Emphasis is on appropriate test selection and use of results. Writing proficiency within this discipline is required for a passing grade in this course.

SPE 304. Instructional Strategies In Sp. 3 sem. hrs.
Addresses curriculum planning and selection of instructional tasks, with emphasis on making decisions that facilitate learning in students with disabilities.

SPE 326. Instruct Sign Language. 3 sem. hrs.
Introduction to the culture of the deaf community and to the sign language continuum, providing a knowledge base from which students can communicate with the deaf and hard of hearing in the school setting.

SPE 374. Parenting Children. 3 sem. hrs.
Explores the role of families in the educational process and how professionals work with families. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semester.

SPE 382. Teaching Thinking Skills. 3 sem. hrs.
An overview of the dimensions of thinking skills with a focus on practical instructional techniques for special and regular education programs. Includes detailed training in models for teaching thinking skills that result in improved student and teacher thinking.

SPE 414. Collaborative Consultatn. 3 sem. hrs.
Examination of the ways in which individuals interact with educational systems, communities at large, and each other to bring about appropriate educational services for students with special educational needs. Included are fundamentals of group process, human behavior and interaction, and motivation, as well as skills and knowledge necessary for successful collaboration and consultation with others concerned with education of students who present exceptional needs.

SPE 416. Instruct Strategy Severe Popul. 3 sem. hrs.
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in education settings for children with severe disabilities. Emphasis is placed on educational programming, subject matter, professional responsibilities of teachers and related service personnel, curriculum development, physical management of children with severe disabilities, adaptation of materials and equipment, and modification of programs in varied settings (clinical, homebound, hospital, public schools).

SPE 435. Behavior Management. 3 sem. hrs.
The course addresses the development of models for managing behavior, to help teachers prevent or deal with emotional conflict in the classroom.

SPE 471. Dev Persp Young Child W/ Disab. 3 sem. hrs.
A course introducing the field of early childhood special education, including its rationale and legal issues. Offered fall semester.

SPE 476. Assessment Of Young Children. 3 sem. hrs.
Basic principles and practices involved in the assessment and evaluation of young children. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 477. Differentiated Acad. Instruct. 3 sem. hrs.
This course examines differentiated instructional methods using cross-content instructional examples. The course provides opportunities to develop knowledge and skills in lesson and unit planning, pedagogy, kinds of materials and evaluation of learning.
Prerequisite(s): SPE 304 and SPE 471 or SPE 571; and SPE 476 or SPE 576 Admission to Teacher Education Program
Prerequisite(s) with concurrency: SPE 471.

SPE 478. Meth Teach Yng Child W/ Disb. 3 sem. hrs.
Curriculum methodology materials and management technology for young children with disabilities.

SPE 479. Intern In Early Childhood Spe. 3-12 sem. hrs.
Fourteen week split internship providing supervised teaching experience in classrooms for young children. Offered spring and fall only. Application for internship must be made the semester prior to internship (excluding summer term) through Office of Educational Field Experience.
Prerequisite(s): SPE 478 and SPE 476 and SPE 471 and SPE 374 Admission to Teacher Education Program.

SPE 491. Educ Method Elem Mlbd. 3 sem. hrs.
Designed to develop skill in the use of curriculum, materials, and management strategies with elementary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 492. Educ Methods Second Mlbd. 3 sem. hrs.
Designed to develop skill in the use of curriculum, materials, and management strategies with secondary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program.

SPE 493. Intro Severe/Profound Disabili. 3 sem. hrs.
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in educational settings for child/youth with severe/profound disabilities. Practicum required.

SPE 499. Internship In Spe (Spco). 4.5-7.5 sem. hrs.
Fourteen-week split internship providing supervised teaching experience in elementary and secondary classrooms. Student teaching is only offered during the spring semester, unless written permission is secured from the department head. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.
Prerequisite(s): Admission to Teacher Education Program.

Statistics (ST) Courses

ST 260. Statistical Data Analysis. 3 sem. hrs.
Introduction to the use of basic statistical concepts in business applications. Topics include extensive graphing; descriptive statistics; measures of central tendency and variation; regression, including transformations for curvature; sampling techniques; designs; conditional probability; random variables; probability distributions; sampling distributions; confidence intervals; and statistical inference. Computer software applications are utilized extensively. Emphasis throughout the course in on interpretation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 or CS 150 or CS 120 or GES 131 or GES 145 or PLCS 380.

ST 450. Stat Methods In Res I. 3 sem. hrs.
Development of fundamental concepts of organizing, exploring, and summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on methods and on selecting proper statistical techniques for analyzing real situations.

ST 451. Stat Methods In Res II. 3 sem. hrs.
Analysis of variance and design of experiments, including randomization, replication, and blocking; multiple comparisons; correlation; simple and multiple regression techniques, including variable selection, detection of outliers, and model diagnostics. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on appropriate analysis of data in real situations.
Prerequisite(s): ST 450 or GES 255.

ST 452. Applied Regression Analysis. 3 sem. hrs.
Data analysis using multiple linear regression, including residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques and co-linearity. Logistic regression uses similarly discussed for dealing with binary valued independent variables.
Prerequisite(s): ST 260.

ST 454. Mathematical Statistics I. 3 sem. hrs.
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.
Prerequisite(s): MATH 227.

ST 455. Mathematical Statistics II. 3 sem. hrs.
Theory of order statistics, point estimation, interval estimation, and hypothesis testing.
Prerequisite(s): ST 454.

ST 497. Special Topics. 3 sem. hrs.

Swahili (SWA) Courses

SWA 101. Elementary Swahili. 3 sem. hrs.
Contemporary Swahili: speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

SWA 102. Elementary Swahili. 3 sem. hrs.
Contemporary Swahili: speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): SWA 101.

SWA 201. Intermediate Swahili I. 3 sem. hrs.
Continuation of Swahili language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102.

SWA 202. Intermediate Swahili II. 3 sem. hrs.
Continuation of SWA 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102.

Swedish (SWED) Courses

SWED 101. Elementary Swedish. 3 sem. hrs.
Contemporary Swedish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

SWED 102. Elementary Swedish. 3 sem. hrs.
Contemporary Swedish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

SWED 201. Intermediate Swedish. 3 sem. hrs.
Continuation of Swedish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): SWED 102.

Telecommunication and Film (TCF) Courses

TCF 100. Intro To Telecommunication. 3 sem. hrs.
Explores film, television, news, and new media with a focus on story, and examines how each of these mediums function at both the level of individual and the level of global society.

TCF 112. Motion Pict Hy Criticism. 3 sem. hrs.
Development of the cinema, with emphasis on relation of technical advances to film content and style.

TCF 145. Media Production. 3 sem. hrs.
Through lectures and hands-on projects, students will learn the equipment and techniques used in media production and editing. Open to non-majors, TCF Management majors, and TCF Critical Studies majors. NOT open to TCF Media Production or TCF Documentary majors.

TCF 155. Freshman Seminar. 3 sem. hrs.
Freshman Seminars fulfill a core curriculum requirement while enhancing students academic development using critical skills, writing and field experience.

TCF 201. Intro to Video Production. 3 sem. hrs.
Introduces students to theories and techniques of video production and post-production. Topics include script formatting, camera technique, lighting, sound, and editing. In this hands-on course, students will produce short video projects that emphasize technical proficiency and visual storytelling.
Prerequisite(s): TCF 100 Sophomore standing or higher.

TCF 215. Writing Presentn Telecom. 3 sem. hrs.
Study of and practice in techniques and skills used in writing and presenting scripts, copy, and professional reports as required by telecommunication media.
Prerequisite(s): TCF 100.

TCF 241. The Documentary Form. 3 sem. hrs.
The documentary as an informative and persuasive means of communication. Analysis and discussion of selected documentaries.
Prerequisite(s): TCF 100.

TCF 286. Intro to Reporting. 3 sem. hrs.
Students will learn the terminology of the electronic reporting industry and will begin writing for broadcast. This course also covers basic equipment used in the newsroom and in the field, and serves as the foundation class for the TCF Reporting sequence.
Prerequisite(s): TCF 100.

TCF 287. Symposium. 1 sem. hr.
Visiting professionals series on various topics.

TCF 288. News Shadowing Intern. 1 sem. hr.
Provides students with an opportunity to follow media professionals on the job and discover career requirements before beginning the news sequence.
Prerequisite(s): TCF 100.

TCF 301. Intro to Audio Production. 3 sem. hrs.
Students will learn the basics of microphone properties, microphone placement, recording techniques, editing, and sound design.
Prerequisite(s): TCF 201.

TCF 305. Telecom Audience Analys. 3 sem. hrs.
Study of methods used in gathering information about telecommunication audiences. Analysis, interpretation, and application of information to decision making in electronic media.
Prerequisite(s): TCF 100.

TCF 310. Telecommunication Programming. 3 sem. hrs.
Program planning, development, and strategies for radio and television stations, networks, cable systems, and syndication. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): TCF 100.

TCF 311. Critical Stdy Television. 3 sem. hrs.
Critical analysis of television programs and commercials. Examples are presented for study and evaluation.
Prerequisite(s): TCF 100.

TCF 312. Advanced Videography. 3 sem. hrs.
In this hands-on intensive production workshop, students will develop their creative vision, aesthetic eye, and technical skill to help materialize their ideas on screen. Topics include digital video cameras, framing, composition, camera movement, and lighting techniques.
Prerequisite(s): TCF 201.

TCF 315. Scriptwriting. 3 sem. hrs.
Introduction to writing scripts for television and film. Emphasis includes both the creative and technical aspects.
Prerequisite(s): TCF 100.

TCF 321. Announc Perform For Rtv. 3 sem. hrs.
Performance for Radio and Television. Practical approach to techniques and practices necessary for effective appearances on electronic media. Emphasizes copy interpretation, interview skills, and studio performance for microphone and camera.
Prerequisite(s): TCF 100.

TCF 331. Intro to Reporting. 3 sem. hrs.
Prerequisite(s): TCF 100.

TCF 332. Intermediate Electronic Reporting. 3 sem. hrs.
Elements of news reporting for the electronic media, with focus on radio writing, reporting, and performance. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): TCF 100 and TCF 288.

TCF 333. Advanced Electronic Reporting. 3 sem. hrs.
Advanced examination, preparation, and presentation of news for the electronic media. Activities include writing, electronic news gathering, reporting, and anchoring.
Prerequisite(s): TCF 100 and TCF 332.

TCF 334. Electronic News Capstone/Portfolio. 3 sem. hrs.
Practical application of electronic news reporting and anchoring with an emphasis on preparing a career portfolio.
Prerequisite(s): TCF 100 and TCF 332 and TCF 333.

TCF 335. New Media. 3 sem. hrs.
Preparation and presentation of news and sports for new media outlets, including internet formats.
Prerequisite(s): TCF 145 or TCF 333.

TCF 340. International Cinema. 3 sem. hrs.
Study of motion pictures produced throughout the world. Subjects may change each time course is offered. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): TCF 112.

TCF 351. Commercial Production. 3 sem. hrs.
This course offers students the opportunity to combine their knowledge and skills in creating and producing broadcast commercials. Students will be involved in all stages of the process from research and development of scripts to production and postproduction of finished commercials and final presentation of the finished product.
Prerequisite(s): TCF 201.

TCF 357. Production Management. 3 sem. hrs.
Study of and practice in techniques and skills used in organizing location shoots for television, film, documentaries, and commercials.

TCF 361. Intro to Post Production. 3 sem. hrs.
In this project-driven course, students will learn and practice non-linear video editing principles and techniques, media management, sound design, and digital theory.
Prerequisite(s): TCF 100.

TCF 367. Advanced Prod. Management. 3 sem. hrs.
Advanced study and practice in the skills needed for successful production management, including professional software. Emphasis placed on critical thinking, problem solving and team building.
Prerequisite(s): TCF 100 and TCF 357.

TCF 380. Independent Study. 1-3 sem. hr.
Investigative studies in telecommunication and film. May be repeated.

TCF 381. Tcf Practicum. 1-3 sem. hr.

TCF 387. Tcf Internship. 1-3 sem. hr.
Supervised field experience in approved operations in the telecommunication and film industries. No more than 3 hours credit for TCF 387 may be applied toward a degree.

TCF 389. Telecom Applied Topics. 3 sem. hrs.
This is a special topics class which has different topics for each class.
Prerequisite(s): TCF 100.

TCF 390. Electronic Media Sales. 3 sem. hrs.
Understanding prospective clients' businesses; knowledge and application of audience research; application of the marketing model; understanding of effective media mix and advertiser buying influences; assessment of competitive advantages; and written presentations.
Prerequisite(s): TCF 100.

TCF 398. Production Crew. 1-3 sem. hr.
Prerequisite(s): TCF 201.

TCF 401. Corporate & Inst. Media. 3 sem. hrs.
Study of non-broadcast media systems used within corporations and organizations for training, communications, sales, public relations, and instruction. Topics include production techniques; instructional design for video/multimedia; distribution methods; budgeting and management; and careers in corporate media.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 411. Seminar in Critical Studies. 3 sem. hrs.
Advanced study of selected topics in television or film criticism.
Prerequisite(s): MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR PLMA 190 OR ACT 28 OR SAT 690.

TCF 412. Screen Directing. 3 sem. hrs.
Advanced instruction in directing for television and film with an emphasis on directing actors, blocking for the camera, and narrative production techniques. Course includes the production of short fiction projects on digital video.
Prerequisite(s): TCF 201 and TCF 361 and TCF 312.

TCF 420. Telecommuncatn Effects. 3 sem. hrs.
Study of individual and social effects of electronic mass media, with emphasis on research results.

TCF 433. Broadcast News Analysis. 3 sem. hrs.
Historical and critical study of electronic-media news in the United States. Writing proficiency is required for a passing grade in this W-designated course.

TCF 434. Documenting Justice I. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

TCF 435. Documenting Justice II. 3 sem. hrs.
Interdisciplinary course in ethnographic filmmaking focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Second semester of course.
Prerequisite(s): TCF 434.

TCF 437. Specializations in Prod. Mgt. 3 sem. hrs.
Examines the special requirements needed for production managers in areas outside of the standard television or film production. Topics include animation, gaming and documentaries.
Prerequisite(s): TCF 100.

TCF 438. Producing. 3 sem. hrs.
Examines the economic structures and business practices used by the entertainment industry. This includes development contract law, financing, distribution, pitching and negotiating with Guilds & Unions.
Prerequisite(s): TCF 100.

TCF 440. Sem In American Cinema. 3 sem. hrs.
Study of selected topics in United States film. Writing proficiency is required for a passing grade in this W-designated course.

TCF 441. Documentary Production. 3 sem. hrs.
This course guides students through the design, pre-production planning, production, postproduction and subsequent evaluation of individual and group documentary project(s). Instruction topics include contemporary visual storytelling, cinematic philosophies, ethical issues, research, funding, and distribution.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 442. Advanced Video Projects. 3 sem. hrs.
The application of advanced production skills, including directing, videography, editing, and production management, in the production of a polished, short-subject film on digital video. Students work in groups over the course of the semester, shepherding film project from preproduction to exhibition.

TCF 444. Sem Telecomm/Film Topics. 3 sem. hrs.
Analysis of contemporary issues in the broadcasting, cable, and/or motion picture industries, including social aspects. Topics vary with instructor. May be repeated 3 times (9 hours credit) with different topics.

TCF 445. Telecommuncatn Media Mgt. 3 sem. hrs.
Study of broadcast station and network organization, cable systems, decision-making processes, and research techniques.

TCF 448. Telecommun Policy & Law. 3 sem. hrs.
Organizational structures and processes that formulate and apply laws and regulations shaping broadcast, cable, satellite, and new electronic media operations. Analysis of national policies and standards and their relationship to regional and international controls and practices.

TCF 451. Advanced Television Production. 3 sem. hrs.
Students will receive instruction and practical experience in the development of programming for television, including research, planning and budgeting for series productions. Students will produce small and large group projects for broadcast and follow the projects from concept through the completion.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301;.

TCF 461. Advanced Post Production. 3 sem. hrs.
Further instruction in nonlinear editing with emphasis on special effects, motion graphics, and advanced editing techniques.
Prerequisite(s): TCF 201 and TCF 361 or TCF 351 or TCF 312 or TCF 301; or TCF 150.

TCF 490. Capstone Prod. Projects I. 3 sem. hrs.
Students will begin development on a production project from first draft to a shooting ready production binder.

TCF 491. Capstone Prod. Projects II. 3 sem. hrs.
Students produce and edit short senior projects developed in TCF 490. Project will include a fine cut and a press kit.
Prerequisite(s): TCF 490.

Thai (THAI) Courses

THAI 101. Elementary Thai. 3 sem. hrs.
Contemporary Thai: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

THAI 102. Elementary Thai. 3 sem. hrs.
Contemporary Thai: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): THAI 101.

THAI 201. Intermediate Thai. 3 sem. hrs.
Continuation of Thai language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): THAI 102.

Theatre (TH) Courses

TH 113. Voice And Diction. 3 sem. hrs.
Credit for this course will not be awarded to students majoring or minoring in theatre. A beginning course designed to assist the student in improving use of his or her voice and speech. Offered each semester and in the summer session.

TH 114. Intro To The Theatre. 3 sem. hrs.
Introduction to the theatre through the study of plays, stage histories, practitioners, elements of theatre and production techniques.***This course does not count toward the theatre major.

TH 115. Beginning Acting. 3 sem. hrs.
Credit for this course will not be awarded to students majoring or minoring in theatre. Training in the basic elements of the actor's craft. Additional hours in related theatre activities may be required.

TH 120. Principles Of Stage Design. 3 sem. hrs.
An introduction to the various areas of theatrical design and technology, including but not limited to scenery, costumes, lighting, sound, and makeup.

TH 140. Stage Movement I. 3 sem. hrs.
Course in the use of the actor's body as an expressive tool; body/spatial/sensory awareness; structure and alignment; and stage presence and gesture.

TH 141. Acting I. 3 sem. hrs.
The course is designed to introduce the beginning student to the art and craft of acting.

TH 165. Musicianship Theatre Perform I. 3 sem. hrs.
A course in basic musical theatre skills, including sight-singing, playing keyboard instruments, singing in harmony, phonetic transcription, and audition techniques. May be repeated for a maximum of 6 hours.

TH 166. Musicianship Theatre Perf II. 3 sem. hrs.
A continuation of TH 165, featuring more advanced work in sight-singing, keyboard, ensemble singing, and audition techniques. May be repeated for a maximum of 6 hours.
Prerequisite(s): TH 165.

TH 175. The Singing Voice. 2 sem. hrs.
The class is designed to introduce students to basic concepts of vocal technique and musicianship through practical application.

TH 220. Fundamental Stage Scenery. 3 sem. hrs.
Required lab. Survey of the techniques for building, rigging, and painting scenery for various forms of production. Emphasis is on scenery for the stage.

TH 230. Stage Makeup. 2 sem. hrs.
Required lab. Principles of and practical work in all types of stage makeup.

TH 231. Costume Construction I. 3 sem. hrs.
A studio course in basic patterning, cutting, and construction techniques. Additional hours in related theatre activities may be required.

TH 233. Beginning Costume Design. 3 sem. hrs.
An introductory course implementing the principles of design as related to costumes.
Prerequisite(s): TH 120.

TH 240. Stage Movement II. 3 sem. hrs.
Prerequisite(s): TH 140.

TH 241. Beg Voice Speech Perform. 3 sem. hrs.
A beginning course in the proper use of the vocal instrument for performance.

TH 242. Acting II Intro to Scene Stud. 3 sem. hrs.
Majors- only advanced acting course. An in depth study of various techniques used to explore an acting scene in performance: advanced personalization, intense experiential analysis of emotional and intellectual transitions in a text, and specific physical and musical improvisations, which combine to form the basis of a "Simulated Experience" of the character. Students will explore works from the Realistic Period as well as modern texts, in order to develop a personal technique applicable to any material the actor might encounter, both classical and contemporary.
Prerequisite(s): TH 141.

TH 245. Tch Theatre: Performance. 3 sem. hrs.
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include acting, directing, choosing plays for production, and rehearsal techniques.

TH 246. Tch Theatre: Play Prodcn. 3 sem. hrs.
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include speech, dramatic literature, children's drama, costuming, scenery and playwriting.

TH 290. Theatre Practicum. 1 sem. hr.
Participation in University Theatre productions. Assignments in scenery, lighting, properties, sound, costuming, publicity, rehearsal and performance, etc. (Maximum 2 hours).

TH 291. Practicum I. 1 sem. hr.
Participation in University Theatre productions through a rotation of assignments in the scene shop, costume shop, box office, deck crews, and performance.

TH 320. Intermed Tech Productn. 3 sem. hrs.
Study of the planning and execution of scenery through analysis of production-related problems dealing with the technical design of rigging and construction.
Prerequisite(s): TH 220.

TH 322. Fund Of Stage Lighting. 3 sem. hrs.
Required lab. Survey of materials and techniques employed in executing stage lighting for both the legitimate stage and television.
Prerequisite(s): TH 120 or TH 220.

TH 324. Lighting and Sound for Dance. 3 sem. hrs.
A technical production course specifically for dance majors covering the practical aspects of theatre technology.

TH 351. American Music Theatre History. 3 sem. hrs.
This course provides you with a review of the historical genres, circumstances and catalogue of material that developed the american musical theatre from its ministrel beginnings to the multi-million dollar spectacles of today.

TH 361. Beginning Directing. 3 sem. hrs.
Study of the principles and techniques of directing plays. Additional hours of related theatre activities are required.
Prerequisite(s): TH 141 and TH 120 or TH 220.

TH 365. Stage Management. 3 sem. hrs.
The study of the professional stage manager's process: preparing and running rehearsal and performance, conflict resolution, and general responsibilities as defined by Actor's Equity Association. Required production element outside of class.
Prerequisite(s): TH 141 and TH 120 or TH 220.

TH 375. The Singing Voice - Intermediate. 2 sem. hrs.
This class is designed to further students' understanding of basic concepts of vocal technique and musicianship through practical application. Students will discuss various topics related to singing and will further explore those topics through performance. Students will give four solo performances over the course of the semester per the schedule listed below.
Prerequisite(s): TH 175.

TH 390. Theatre Practicum II. 1 sem. hr.
Participation in University theatre productions. Assignments in scenery, costumes, lighting, sound, management, rehearsal, performance, etc.
Prerequisite(s): TH 290.

TH 391. Practicum II. 1 sem. hr.
Participation in University Theatre production in the area[s] of your preference (availability permitting). Opportunities in scenery, lighting, properties, sound, costuming, publicity, musical theatre, stage management, and performance, etc.
Prerequisite(s): TH 291.

TH 415. Properties Construction. 3 sem. hrs.
A studio course introducing the multitude of techniques used by the props artisan to create hand props, furniture, and other set dressings.
Prerequisite(s): TH 120 or TH 220.

TH 420. Technical Direction. 3 sem. hrs.
This course will provide students with an overview of the technical design, construction techniques, and the administrative and management functions that are a part of the field of technical direction.
Prerequisite(s): TH 220 and TH 423.

TH 421. Period Decor. 3 sem. hrs.
Survey of period architecture and ornament as they apply in research for productions.
Prerequisite(s): TH 120 or TH 220.

TH 422. Scene Design. 3 sem. hrs.
A studio course exploring the process and techniques of scene design. Students will design three to five plays.
Prerequisite(s): TH 120 or TH 220 or TH 423.

TH 423. Drafting For Theatre. 3 sem. hrs.
A studio course exploring traditional and computer based techniques of technical drafting as applied to the theatre. Skills learned will include orthographic and isometric projections, ground plans, sections, perspective drawing, and layout.
Prerequisite(s): TH 120 or TH 220.

TH 424. Adv Scene Design. 3 sem. hrs.
A studio course in drafting, drawing, and painting techniques for the stage designer.
Prerequisite(s): TH 120 or TH 220.

TH 425. Scene Painting. 3 sem. hrs.
A studio course in the materials and techniques for painting stage scenery and properties. A materials fee is required.
Prerequisite(s): TH 120 or TH 220.

TH 426. Sound Prod Tech Th Dn. 3 sem. hrs.
The course provides the student with a working knowledge of sound production. It emphasizes the creation of sound tapes for theatre and dance, and the setup and maintenance of sound reproduction and modification equipment.

TH 427. Computer Graphics For Theatre. 3 sem. hrs.
A studio course exploring the creation of technical drawings through Computer Aided Drafting. Skills learned will include commands for drawing, layout of information, and other CAD techniques.
Prerequisite(s): TH 120 or TH 220.

TH 430. Hy Costume For Stage. 3 sem. hrs.
Historical study of dress in relation to costuming for the stage.
Prerequisite(s): TH 120 or TH 220.

TH 432. Costume Constructn II. 3 sem. hrs.
A studio course in advanced costume construction techniques and/or costume crafts. Topics may include tailoring, corsetry, millinery, armor, wigs, masks, and jewelry. May be repeated for credit.

TH 433. Costume Design I. 3 sem. hrs.
A studio course in costume design, principles, and presentation.
Prerequisite(s): TH 120.

TH 434. Costume Design II. 3 sem. hrs.
Continued, advanced study of the material in TH 433. Projects address specific problems in design.
Prerequisite(s): TH 433.

TH 435. Presentation for Designers. 3 sem. hrs.
Preparation of "hard," digital and web-based portfolio presentations. Also included is information on presentation in a professional setting, such as a job interview or adjudication.

TH 436. Fabric Modification. 3 sem. hrs.
Course Description: This course explores and introduces a variety of techniques in which to modify the original appearance and/or intent of fibres and fabrics. This is done through the use of various dyes/techniques, surface treatment, use of non-traditional materials and restructuring of fabrics.

TH 437. Drawing for Stage Designs. 3 sem. hrs.

TH 438. Tailoring Techniques for Thtre. 3 sem. hrs.
Prerequisite(s): TH 432 or TH 231.

TH 439. Advanced Stage Makeup. 3 sem. hrs.
A studio course using a variety of materials in the art of mask making, hair ventilating, and prosthetics.
Prerequisite(s): TH 230.

TH 440. Stage Movement III. 3 sem. hrs.
Advanced theory and practice of specific stage movement, such as clowning, mask, stage combat, mime, etc. May be repeated for a maximum of 6 hours for differing topics.
Prerequisite(s): TH 240.

TH 441. Acting III: Advanced Scene Study. 3 sem. hrs.
Thorough exploration of character study, script analysis, and scene work for the actor.
Prerequisite(s): TH 242.

TH 442. Careers In Prof Theatre. 3 sem. hrs.
The course focuses on audition and interview techniques, the union, and resume writing and other skills required to apply for positions in the academic and professional theatre.
Prerequisite(s): TH 441.

TH 444. Acting IV Period Acting Styles. 3 sem. hrs.
Study and practice of acting styles from 1850 to the present, concentrating on classical comedy, high comedy, and acting for the camera.
Prerequisite(s): TH 441.

TH 445. Acting IV Period Actng Styles. 3 sem. hrs.
Study and practice of acting in verse drama, concentrating on Shakespeare's works.
Prerequisite(s): TH 441.

TH 446. Adv Voice Speech Perform. 3 sem. hrs.
Intensive exercises and practice for acquiring acceptable use of voice and speech for performance.
Prerequisite(s): TH 241.

TH 447. Stage Dialects. 3 sem. hrs.
Study of stage dialects for the performer. Offered in alternate years.
Prerequisite(s): TH 446 and TH 446.

TH 451. Hist Of The Theatre I. 3 sem. hrs.
Prerequisite(s): TH 120 or TH 220.

TH 452. History Of The Theatre II. 3 sem. hrs.
Prerequisite(s): TH 120 or TH 220.

TH 453. European Th Hy Sc 1850. 3 sem. hrs.
Explores the European sources, including plays, essays, technologies, and theory, of the modern and postmodern theatre.
Prerequisite(s): TH 120 or TH 220.

TH 458. American Feminist Theatre. 3 sem. hrs.
Survey of dramas, performances, criticism and theory since 1900 in American Theatre.
Prerequisite(s): TH 120 and TH 220.

TH 465. Musical Theatre Performance I. 3 sem. hrs.
A course in musical theatre scene study, in which acting, singing, and movement skills are blended in the performance of songs and scenes.
Prerequisite(s): TH 166.

TH 466. Musical Theatre Performance II. 3 sem. hrs.
A special topics course exploring such areas as musical theatre history, cabaret performance, in-depth study of a single work, etc.
Prerequisite(s): TH 465.

TH 467. Musicl Theatre Repertoire Coac. 0.5-2 sem. hrs.
Individual coaching in musical repertoire, musical and dramatic performance techniques, and skills crucial to learning and rehearsing new material.
Prerequisite(s): TH 166 and THMT 174, TH 174, or MUA 174.

TH 470. Theatre Management. 3 sem. hrs.
This course will provide students with an overview of the administrative and management functions in the theatre industry, both not-for-profit organizations, as well as the commercial theatre industry.
Prerequisite(s): TH 120 or TH 220.

TH 482. Playwriting I. 3 sem. hrs.
The course introduces the fundamentals of writing for the stage. Practical instruction in playwriting includes an opportunity to write a one-act play.
Prerequisite(s): TH 120 or TH 220.

TH 491. Practicum III. 1 sem. hr.
Participation in University Theatre production through performance and design/leadership assignments in scenery, lighting, properties, sound, costuming, publicity, musical theatre, and stage management, theatre management,etc.
Prerequisite(s): TH 391.

TH 499. Independent Study. 1-4 sem. hr.

Theatre-Muscial Theatre (THMT) Courses

THMT 174. Freshman Musical Theatre Voice. 0.5-2 sem. hrs.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

THMT 274. Sophomore MTVoice. 1-2 sem. hr.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 174 or TH 174.

THMT 374. Junior Musical Theatre Voice. 0.5-2 sem. hrs.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 174 or TH 174.

THMT 474. Senior MTVoice. 1-2 sem. hr.
Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.
Prerequisite(s): THMT 374 or TH 374.

Turkish (TURK) Courses

TURK 101. Elementary Turkish. 3 sem. hrs.
Contemporary Turkish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

TURK 102. Elementary Turkish. 3 sem. hrs.
Contemporary Turkish: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.
Prerequisite(s): TURK 101.

TURK 201. Intermediate Turkish. 3 sem. hrs.
Continuation of Turkish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): TURK 102.

TURK 202. Intermediate Turkish. 3 sem. hrs.
Continuation of TURK 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): TURK 102.

University College (UA) Courses

UA 100. Healthy Bama. 0 sem. hrs.

UA 110. Peer Leader 101: Learning to Teach, Teaching to Learn. 2.0 sem. hrs.
This course will explore the role of peer education at an institution in relation to first-year student academic and social transition. The course will complement the practicum experience students will engage in as a Peer Leader, inside and outside of the classroom. Additionally, students will learn and discuss techniques to improve their leadership as a mentor and a role model, as well as best practices when working with a faculty member to supplement the instruction and facilitate course material. Topics will include understanding the first-year student, embracing the concept of peer leadership, fostering student learning, effective communication skills, personal leadership development, and other related topics. Course enrollment limited to participants in the Peer Leader Program.
Prerequisite(s): Must be enrolled in Peer Leaders program.

UA 155. Freshman Rsrch & Creative Opp. 1-3 sem. hr.
Introduction to research in creative activities in a major research university. The course will provide special opportunities to freshman students admitted to the Emerging Scholars Program.

UA 156. Freshman Rsrch & Opport.II. 1-3 sem. hr.
Research component of UA 155.
Prerequisite(s): UA 155.

University Honors Program (UH) Courses

UH 101. Survey: Values & Society. 3 sem. hrs.
These courses provide an opportunity for students to engage in conversation and experiences relating to the interaction of society and values. The majority of these course require a service-learning component. Satisfies HU core curriculum designation.

UH 103. Honors: Alabama Action. 1 sem. hr.
This course is a service-learning experience for incoming Honors freshmen that responds to the needs of the community by providing hands-on projects and issue-relevant education.

UH 104. Honors: Outdoor Action. 1 sem. hr.
This course is a week-long outdoor service learning class for incoming Honors freshmen who are interested in environmental issues.

UH 105. Honors Mentoring. 3 sem. hrs.
Honors Mentoring provides the dedicated student with the intellectual opportunity to acquire the content knowledge and refine interpersonal skills necessary to effectively mentor at-risk elementary school students. It challenges students to look beyond their own perspectives, assumptions and experiences and embrace the interconnectedness of our society.

UH 106. The Idea of a University. 3 sem. hrs.
This three-week study-abroad course takes "the idea of a University" as its theme. Designed as a propaedeutic to college life, students will examine definitions of education and the university, contrasts and conflicts for students and scholars within academic life, and the "life of the mind" conceptualization of higher education as preparation for lifelong learning. These themes will be explored through detailed readings and class discussions of three Shakespearean plays and substantial supplementary readings from a course packet of educational theorists, poets, and fiction writers. Moreover, because the course takes place in Oxford, England, it includes a strong component of comparing and contrasting our readings and class discussions with life in Oxford, both current and historical. Student assessment will be based on class participation, a journal, two essays, and a final examination. The only prerequisite for this course is admission to the Honors Passport Oxford program.
Prerequisite(s): Admission to Honors Passport Oxford program.

UH 120. Honors Explorations. 1 or 2 sem. hr.
These courses provide an opportunity for students to explore diverse topics within the honors framework. Pass/Fail sections do not count towards the 6 hour UH requirement.

UH 155. Freshman Seminar. 3 sem. hrs.
These courses provide an opportunity for freshmen to engage in discussion and exploration of various topics that change each semester. Satisfies HU core curriculum designation.

UH 201. Classics & Western Culture. 3 sem. hrs.
This course introduces students to the western literary canon from the ancient to the medieval period. Writers to be studied include Homer, Sophocles, Virgil, and Dante. Satisfies HU core curriculum designation.

UH 202. Survey: Class East Cult. 3 sem. hrs.
This course introduces students to some of the classic works of the Asian civilizations of India, China, and Japan. Readings may include the Vedas, the Bhagavad Gita, Analects of Confucius, Lao Tzu's Tao Te Ching, Shikibu's Tale of Gengi, and Gandhi's autobiography. Satisfies HU core curriculum designation.

UH 203. Classics & Western Culture II. 3 sem. hrs.
This course introduces students to the classic works of western culture in the early modern and modern periods. Readings may include works by Machiavelli, Voltaire, Wollstonecraft, Marx, Darwin, Freud, and DuBois. Satisfies HU core curriculum designation.

UH 204. Classics & African Culture. 3 sem. hrs.
Examines the impact of the classics on African culture, focusing on reading and writing about the concept of identity in African civilizations and cultures. Students will become familiar with classic works that represent current themes in African culture and societies such as oral tradition, use of language, community, post-colonial influence, and gender roles.

UH 210. Honors Fine Arts. 3 sem. hrs.
An interdisciplinary approach to the fine arts; content focus and structure vary with instructor. Satisfies FA core curriculum designation.

UH 300. Honors Spec Topics Sem. 3 sem. hrs.
These courses provide an opportunity for Honors College students to engage in discussion and exploration of various topics that change each semester. Satisfies W core curriculum designation.

UH 330. Intro Clinical Medicine. 3 sem. hrs.
This course is designed to acquaint students with the major patterns of illness in the U.S. and with the medical disciplines that treat those diseases. 10 seats available.

UH 331. Save First: Poverty in America. 1-3 sem. hr.
This course introduces students to the concepts of justice and obligation in various faith traditions, fosters discussion on issues faced by the working poor, perceptions and misperceptions of those living in poverty, and current policies affecting lower-income families and individuals. In addition to classroom discussions, students complete tax training and serve as SaveFirst volunteer tax preparers. Students also participate in the FocusFirst Initiative, which trains students to conduct high-tech vision screenings for children in economically disadvantaged communities. Offered in partnership with the Center for Ethics and Social Responsibility. Satisfies HU core curriculum designation.

UH 332. Bridge Builders of Alabama. 1-3 sem. hr.

UH 333. Evry Move Cnts ChessED Project. 1-3 sem. hr.

UH 334. Documenting Justice I. 3 sem. hrs.
This course explores ethnographic documentary filmmaking and critical journalism and helps students learn both technical (e.g., production and editing) and journalistic skills. Offered in partnership with the Center for Ethics and Social Responsibility. Satisfies HU core curriculum designation.

UH 335. Documenting Justice II. 3 sem. hrs.
This course explores ethnographic documentary filmmaking and critical journalism and helps students learn both technical (e.g., production and editing) and journalistic skills. Offered in partnership with the Center for Ethics and Social Responsibility. Satisfies HU core curriculum designation.

UH 350. Black Belt Experience. 1-3 sem. hr.

UH 400. Honors Independent Study. 1-6 sem. hr.
Students work on an independent project with a faculty supervisor.

UH 405. Leadership Experience. 1-6 sem. hr.
Leadership Experience integrates diverse practical experiences with leadership concepts so that students can serve as informed, proactive leaders in various Honors College initiatives. The course utilizes a combination of small group discussions on leadership theory with opportunities for Honors College students to demonstrate their personal leadership styles.
Prerequisite(s): None.

UH 498. Honors Thesis Research. 1-3 sem. hr.
Research on a topic chosen by the student in consultation with a qualified faculty supervisor pertaining to an honors thesis. A proposal outlining the thesis project must be approved prior to registration.

UH 499. Honors Thesis. 3 sem. hrs.
Research on a topic chosen by the student in consultation with a qualified faculty supervisor culminating in an honors thesis. A proposal outlining the thesis project must be approved prior to registration.

Urdu (URDU) Courses

URDU 101. Elementary Urdu. 3 sem. hrs.
Contemporary Urdu: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

Vietnamese (VIET) Courses

VIET 101. Elementary Vietnamese. 3 sem. hrs.
Contemporary Vietnamese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

VIET 102. Elementary Vietnamese. 3 sem. hrs.
Contemporary Vietnamese: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

VIET 201. Intermediate Vietnamese. 3 sem. hrs.
Continuation of Vietnamese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): VIET 102.

Women's Studies (WS) Courses

WS 200. Intro To Women Studies. 3 sem. hrs.
An interdisciplinary course examining the roles of women in patriarchal society, with emphasis on how factors such as race, class, gender, and sexuality contribute to the oppression of women and ways they can be challenged through feminist critical practices.

WS 205. Women'S Autobiographies. 3 sem. hrs.
Through an examination of women's autobiographical writings, the roles women have assumed in different cultures and periods are considered. Analytical techniques from the study of art, literature and psychology are used to discover issues inherent in women's experiences.

WS 220. Mothers And Daughters. 3 sem. hrs.
Investigation of the institution of motherhood, the forces shaping it, and the significance of mother-daughter relationships.

WS 240. Culture Sou Blk Women. 3 sem. hrs.
The history and culture of black women in the South are examined through essays, creative writing, film, music, first-person narrative, and field research.

WS 310. Special Topics. 3 sem. hrs.
Changing topics: for example, women and work, women in the world, social inequality.

WS 340. Women And Law. 3 sem. hrs.
This seminar's major focus is the impact of law on the status and lives of women.

WS 342. Women in the South. 3 sem. hrs.
Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories and novels written by and about women in the 19th and 20th -century South. Writing proficiency within this discipline is required for a passing grade in this course.

WS 352. Social Inequality. 3 sem. hrs.
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

WS 410. Essential Writings & Readings. 3 sem. hrs.
Essential readings and writings for female equality. Assignments focus on the publications and activities of feminist pioneers from the Enlightenment through the suffragist/abolitionist movement and contemporary period. Writing proficiency within this discipline is required for a passing grade in this course.

WS 430. Women Contemp Society. 3 sem. hrs.
Considers major economic, sociological, psychological, and philosophical approaches to the study of women. Emphasis is on the formulation of theories.

WS 435. Black Feminism. 3 sem. hrs.
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200.

WS 440. Seminar Women'S Studies. 3-9 sem. hrs.
Courses under this rubric are designed to meet a specific need and supplement regular offerings.

WS 450. Independent Study. 1-6 sem. hr.
Independent study on any subject pertaining to women, under the supervision of a professor in the chosen field and/or the program director.

WS 470. Gender Race And Class. 3 sem. hrs.
A cross-cultural approach to the study of gender, race, and class discrimination. Focuses on the mutually reinforcing forces of oppression.

World Literature (WL) Courses

WL 207. World Literature I. 3 sem. hrs.
Survey of world literature from the Classical period to the Renaissance.

WL 208. World Literature II. 3 sem. hrs.
Survey of world literature from the Enlightenment to the Modern period.

WL 223. 19 C Russ Lit In Trans. 3 sem. hrs.
Pushkin, Gogol, Dostoevsky, Turgenev, Tolstoy, Chekhov, and other authors. No knowledge of Russian is required. Offered every other year, usually in the fall semester.

WL 224. 20 C Russ Lit In Trans. 3 sem. hrs.
Nabokov, Gorky, Babel, Solzhenitsyn, Shukshin, and other authors. No knowledge of Russian is required. Offered every other year, usually in the spring semester.

WL 250. Germanic Mythology. 3 sem. hrs.
Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

WL 254. Survey of German Cinema. 3 sem. hrs.
An overview of German Cinema from Silent Era in the 20's through New German Cinema, to post-wall works. Topics: history, socio-cultural frame, directors and cinematography.

WL 260. Holocaust In Film & Literature. 3 sem. hrs.
An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

WL 350. Traditional Chinese Literature in Translation. 3 sem. hrs.
Introduction to Chinese literature earliest times to the 20th century. No knowledge of Chinese is required.

WL 351. Modern Chinese Literature inTranslation. 3 sem. hrs.
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

WL 357. Modern Japanese Lit Trans. 3 sem. hrs.
Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

WL 389. Spec Top World Lit I. 3 sem. hrs.
Cross-listed courses addressing a variety of changing topics in different areas including literature, film, and the other arts.

WL 390. Spec Top World Lit II. 3 sem. hrs.
Cross-listed courses addressing a variety of changing topics in different areas including literature, film, and the other arts.

WL 489. Special Topics Wld Lit. 3 sem. hrs.
Cross-listed with courses from other disciplines, usually the languages, and vary from semester to semester.

WL 490. Special Topics Wld Lit. 3 sem. hrs.
Cross-listed with courses from other disciplines, usually the languages, and vary from semester to semester.

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