Accreditation

UAB is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate, master’s, specialist, and doctoral levels. Many academic programs have additional accreditation from organizations appropriate to the academic discipline.

Questions related to the accreditation of UAB should be directed to the Commission on Colleges at:

Commission on Colleges
Southern Association of Colleges and Schools
1866 Southern Lane
Decatur, Georgia 30033
Phone: (404) 679-4500
Fax: (404) 679-4558

If you have questions related to issues such as admission requirements, educational programs, and financial aid that are not answered in this publication, please contact UAB at:

University of Alabama at Birmingham
Office of the Registrar
1605 11th Avenue South
Birmingham, AL 35205

Mailing address:
1720 2nd Ave S
Birmingham, Alabama 35294-4300
(205) 934-8228
(205) 975-3700 fax
Email: catalog@uab.edu
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The Undergraduate Catalog is produced by the Office of the Registrar.
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General Information

Role Statement

UAB's undergraduate instructional programs are broad-based and designed to serve the needs of a diverse student body without sacrificing a strong general education foundation. Programs range from the liberal arts and sciences to professionally oriented studies, including business, education, engineering, and the health disciplines. UAB's baccalaureate offerings are shaped by its location in the state's largest metropolitan area, by its mandate to serve a large and heterogeneous constituency, by its responsibility to contribute to the economic and professional development of Birmingham and the state, and by its role of providing support to a nationally recognized academic health sciences center.

At the graduate level, programs serve the career needs of educators and business leaders, as well as those involved in advancing the frontiers of the health sciences. Training for health professionals is available through programs at the baccalaureate, master's, doctoral, and professional degree levels.

UAB also has the primary responsibility for meeting the state's health professional needs. It offers a comprehensive range of programs which encompass both basic preparation and sophisticated graduate and specialty training in medicine, dentistry, optometry, nursing, the health professions, and public health.

As one of the nation's leading research institutions, UAB emphasizes both basic and applied research. Although the majority of the university's research effort is in the biomedical sciences and related areas, all instructional programs are expected to participate in research activities. UAB's urban setting necessitates the development of research programs that are responsive to the city's economic, social, and cultural needs. Much of the research conducted at UAB is interdisciplinary in nature and is organized through centers that bring together experts in a number of related fields to concentrate on a particular problem or issue. UAB attracted more than $454 million in external research funding in 2012 and currently ranks 21st in funding from the National Institutes of Health. UAB also ranks in the Carnegie Foundation's highest tier for research activity and in the "community engagement" classification, the only university in the state to hold both designations.

As the senior public doctoral-level institution in the state's major urban area, UAB is also committed to providing comprehensive programs in continuing education consistent with the quality and diversity of its other offerings. The university's faculty, staff, and students also serve as resources to the area through activities related to professional, economic, and cultural growth and development.

Cultural Opportunities

UAB's urban location offers students unique cultural opportunities. Located within walking distance of the campus is the Five Points South district, where ethnic-style restaurants, shops, art galleries, and music clubs are located. Not far from campus are the Birmingham Museum of Art, the Civil Rights Institute, the historic Alabama Theater, and the Birmingham-Jefferson Convention Complex. Other nearby sites include Sloss Furnace, a post-Civil War iron foundry which has been converted into a museum and informal music hall, and Oak Mountain Amphitheater, an outdoor facility that features music-industry headliners during the spring and summer concert season.

UAB also has a flourishing arts program. As many as 30 major music events are produced each season at UAB, in addition to numerous theater productions and student and professional art exhibitions. The Alys Robinson Stephens Performing Arts Center is Birmingham's home for the performing arts and the anchor of UAB's burgeoning Cultural Arts Corridor. The Center features a 1,400-seat concert hall, a 350-seat theater, and a 150-seat recital hall, and regularly schedules nationally and internationally known artists and orchestras and features faculty and student productions and concerts. The new Abroms-Engel Institute for Visual Arts, opening early 2014, will house Art/Art History department galleries, classrooms, and faculty, and host world-class exhibits and cultural events.

Student Life

UAB offers a rich variety of student life activities through its many academic organizations, honor clubs, fraternities and sororities, and volunteer groups. The university houses more than 200 campus organizations, including 30 national honorary societies, more than 100 professional clubs and interest groups, cheerleaders, the Golden Girls dance team, intramural and recreational sports, and an established student government organization.

The campus is rich in social activity and the arts and culture. The Campus Green is a vibrant hub of campus life, with serene outdoor spaces and state-of-the-art residence halls, dining facilities and academic buildings. A few blocks away, the Alys Stephens Center for the Performing Arts serves UAB. UAB has begun construction on the new Hill Student Center, an architecturally striking facility that will house, among other amenities, a student welcome center, bookstore and meeting, conference and auditorium space.

UAB’s athletic program is a Division I member of the NCAA and a founding member of Conference USA. UAB athletes participate in 17 intercollegiate sports and have earned championships in baseball, men's tennis, women's tennis, women's basketball, and men's golf. In 1996, the UAB Blazers football team became a NCAA Division I-A team and was accepted into Conference USA. In addition, UAB offers a wide selection of both men's and women's intramural sports.

The University of Alabama System

The University of Alabama was foreseen in the Constitutional Convention in Huntsville, Alabama Territory, on July 5, 1819. At the second session of the General Assembly, December 18, 1819, an act was passed establishing a seminary of learning "to be denominated the University of Alabama." The university opened for admission of students on April 18, 1831, in Tuscaloosa. All public buildings except the observatory were burned by federal cavalrymen on April 4, 1865. Erection of new buildings began in January 1867 and classroom instruction resumed in April 1869.

During the first half of the twentieth century and in addition to its regular educational programs at the Tuscaloosa campus, the university began to offer additional educational opportunities to residents in urban communities throughout Alabama. Extension centers, offering both day and evening classes, were established in Birmingham, Huntsville, Montgomery, Mobile, Dothan, and Gadsden. The Birmingham and Huntsville centers evolved into new university campuses, which were established in addition to the Tuscaloosa campus.

In September 1966, all university operations in Birmingham were designated as the University of Alabama in Birmingham (UAB) by the University of Alabama Board of Trustees. This action established the University of Alabama in Birmingham as one of the three major campuses.
of the university. The University of Alabama in Huntsville had been
initiated as a four-year school in 1964.

In June 1969, the campuses were given autonomy within the framework
of the University of Alabama System, each having its own administrative
structure with a president as the chief executive officer. A chancellor was
appointed in June 1976 as chief administrative officer of the system. In
1984, the name of the University of Alabama in Birmingham was changed
to the University of Alabama at Birmingham.

Schools, Degrees, and Majors
This catalog contains information about programs in the College of Arts
and Sciences, Collat School of Business, School of Education, School
of Engineering, School of Health Professions, School of Nursing, and
School of Public Health. Information on the Graduate School and the
Schools of Dentistry, Health Professions, Medicine, Nursing, Optometry,
and Public Health is available from the specific school's catalog.

Most UAB students are working toward a degree; however, some have
other educational goals. Degrees are usually characterized by the level
(baccalaureate, master’s, or doctoral) and the principal subject area
(known as the “major”) in which the student specializes.

Students pursuing undergraduate degrees with majors in the College of
Arts and Sciences, Collat School of Business, School of Education, and
School of Engineering will find complete information in this catalog.

College of Arts & Sciences
Bachelor of Arts
African American Studies, Anthropology, Art, Communication Studies,
English, Foreign Languages, History, International Studies, Music,
Philosophy, Political Science, Sociology, Theatre

Bachelor of Fine Arts
Art, Musical Theatre

Bachelor of Science
Biology, Chemistry, Computer and Information Sciences, Criminal
Justice, Mathematics, Natural Science, Neuroscience, Physics,
Psychology, Social Work

Master of Arts
Anthropology\(^2\), Art History\(^1\), Communication Management, English,
History, Psychology, Sociology

Master of Public Administration

Master of Science
Biology, Chemistry, Computer and Information Sciences, Computer
Forensics and Security Management, Criminal Justice, Forensic Science,
Mathematics, Physics

Doctor of Philosophy
Applied Mathematics\(^2\), Biology, Chemistry, Computer and Information
Sciences, Medical Sociology, Physics, Psychology

School of Education
Bachelor of Science
Early Childhood Education, Elementary Education, Health Education,
Kinesiology, Secondary Education

Master of Arts in Education
Arts Education, Early Childhood Education, Educational Leadership,
Elementary Education, English as a Second Language, Health
Education, Secondary Education, Kinesiology, Reading, Special
Education

Master of Arts
Counseling

Educational Specialist
Educational Leadership, Education

Doctor of Education
Educational Leadership\(^1\)

Doctor of Philosophy
Early Childhood Education, Educational Leadership\(^1\), Health Education
Promotion\(^1\)

Collat School of Business
Bachelor of Science
Accounting, Economics, Finance, Industrial Distribution, Information
Systems, Management, Marketing

Master of Science in Management Information
Systems

Master of Accounting

Master of Business Administration

Doctor of Philosophy
Administration/Health Services

School of Engineering
Bachelor of Science
Biomedical Engineering, Civil Engineering, Electrical Engineering,
Materials Engineering, Mechanical Engineering

Master of Science
Biomedical Engineering, Civil Engineering, Electrical Engineering,
Engineering, Materials Engineering, Mechanical Engineering

Doctor of Philosophy
Biomedical Engineering, Civil Engineering\(^3\), Computer Engineering\(^4\),
Interdisciplinary Engineering, Materials Engineering\(^1\), Materials Science\(^2\)

Nursing, Health Professions, and Public
Health
Students working toward baccalaureate degrees with majors in the
Schools of Nursing, Health Professions, or Public Health will find
information on at least the first one or two years of their programs in this
The Early Medical Professional School Acceptance Program (EMPSAP):

EMPSAP is an elite and nationally recognized program that offers highly qualified incoming freshmen guaranteed admission to the university’s School of Medicine, Dentistry, or Optometry once they successfully complete the program requirements and their undergraduate program at UAB. Students get an opportunity to work with UAB’s top medical professional and researchers – shadowing, studying, researching, caring for patients, and volunteering. Overall, students will receive an excellent undergraduate experience, and when done, have a top-notch professional education to look forward to.

The Experiential Learning Scholars Program:

UAB’s Experiential Learning Scholars Program believes that education is more than just a set of courses taken in a classroom setting. Real-life experiences that supplement regular class work can provide a dynamically enhanced educational experience for today’s scholars and leaders. UAB’s Experiential Learning Scholars Program is designed for students who are searching for ways to intentionally enhance their academic course work with applicable, real-life experiences – making hands-on experience an integral part of a thorough and enlightened education. Students have the opportunity to construct an individualized learning plan suited to their unique academic, personal and career aspirations. They are then empowered to live it out – in the classroom and in the world.

The Global and Community Leadership Honors Program:

UAB isn’t just a place to collect a degree – it’s a place to explore a student’s passions and decide what kind of mark they want to leave on the world. The Global and Community Leadership Honors Program offers challenging courses and engaging academic experiences to explore social, economic, cultural, and political issues at home and abroad. Students work with other dedicated, inspired students under the leadership of world-renowned faculty to gain a deeper understanding of global and community issues, relate them to their own values and goals, and prepare for the kind of leadership role that can enable students to change the world.

The Science and Technology Honors Program:

Students in the UAB Science and Technology Honors Program take part in unique academic and research experiences specifically designed to give them a head-start on a scientific or technical career. A student’s passion for research and innovation doesn’t have to sit patiently until graduate school – or even wait until their junior year of undergrad. This program matches students with faculty mentors, independent research projects, specially tailored core courses, and an environment of discovery and innovation. In the Science and Technology Honors Program students will engage in one-on-one research with faculty members and will receive two years of tuition for any UAB science and technology doctoral program after they complete the program. Overall, students will come away with numerous science and technology contacts, publishable research, lab experience, and a head start on a science or technical career.

The University Honors Program:

The University Honors Program’s nationally acclaimed interdisciplinary arts and sciences curriculum brings a liberal arts education to a world-class research university. Open to all majors, it is the only honors program in Alabama that replaces the core curriculum. Students enjoy challenging interdisciplinary courses, specialized seminars, and the friendly environment of the Spencer Honors House. Students in this program work with leading researchers and scholars throughout the campus and have the unique opportunity to be part of the long tradition of excellence while obtaining a rich interdisciplinary education.

Each of these Honors College programs offer students an alternative to the traditional UAB undergraduate education by providing unique courses and educational experiences in a close-knit and personalized setting. Furthermore, each of these programs offers students the following benefits:

- Priority registration
- An honors housing option for incoming freshmen
- Enhanced formal and informal advising
- Opportunities in service-learning, study abroad, research, and leadership.

Overall, UAB’s Honors College provides exceptional educational experiences for the best and brightest of students, preparing them to use their unique talents and abilities to dream big and to make a difference — in Birmingham, in Alabama, and in the world.

If students are looking for exciting educational experiences, unique classes, and an academic challenge to move beyond their own expectations, then one of our programs in the Honors College may be exactly what they are looking for. Overall, the UAB Honors College programs were created for students who are looking for a truly challenging, enriching educational experience to help them make the most of their college experience and to prepare for an exciting future.

Medicine, Dentistry, Optometry, or Law

Students wishing to pursue careers in medicine, dentistry, optometry, or law complete a program of undergraduate study (usually culminating in a baccalaureate degree) before entering the appropriate professional
school. "Pre-medicine," "pre-dentistry," "pre-optometry and "pre-law" are not majors.

Individually Designed Majors

Students whose educational objectives are not well served by any of the regular majors may propose an individually designed major. Such program proposals require approval of the appropriate dean.

ROTC

UAB has Army and Air Force ROTC (Reserve Officer Training Corps) units in which Birmingham-area college students may participate.

Cooperative Education Program

UAB’s Cooperative Education Program helps students identify work opportunities that combine practical experience with academic studies. Some academic departments give credit for carefully structured work experiences.
Trustees and Administration

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Deborah Voltz, Ed.D, Dean, School of Education

Brent Gage, Ph.D., Associate Provost for Enrollment Management

Gregg M. Janowski, Ph.D., Associate Provost for Assessment and Accreditation
Academic and Student Resources

UAB provides a variety of services and resources to guide students through their academic careers.
Admission

UAB welcomes applications from all individuals whose preparation and abilities give them a reasonable chance of success in its programs. All applicants must offer acceptable evidence of ability and intent to meet the academic standards of the university. Admission into and placement within the university is determined by the Office of Undergraduate Admissions utilizing the criteria approved by the university. Admission decisions are based on a number of factors including a previous record of satisfactory academic performance, strength of curriculum, and test scores. Admission to the university is valid for one academic year.

The application for admission, application instructions, and application deadlines can be accessed at http://www.uab.edu/apply. Applications are processed in the order in which they are complete and ready for a decision.

Prospective students currently attending high school may apply as early as the summer before their senior year. Tentative admission will be granted on the basis of ACT or SAT scores and high school records through the junior year. A final official transcript reflecting work completed in the senior year and confirmation of graduation will be reviewed before a student’s final admission. Applicants must earn a high school diploma to be eligible for admission. A General Equivalency Diploma (GED) may be considered if the applicant is 19 years of age or older and does not have a high school diploma.

Prospective students currently attending another college or university may apply one year prior to the date of the desired term of enrollment. However, tentative admission will be granted with no more than one term pending on the basis of an evaluation of coursework from all colleges and universities attended. A final official transcript reflecting work completed will be reviewed before a student’s final admission.

Credentials and documentation required for admission vary by application status. To be considered official, all academic documents required for admission must be sent to UAB directly from the high school, colleges/universities attended, and testing agencies. All credentials submitted as part of the application for admission become and remain the property of the university and will not be returned to the student, duplicated, or transferred to another institution.

Any change in a student’s record prior to enrollment will necessitate a new review of the application. Any omissions or misrepresentations on a student’s application for admission will automatically invalidate consideration by and acceptance to UAB. If, after a student is admitted to the university, information comes to light that indicates an applicant did not meet all admission requirements, the applicant’s offer of admission will be rescinded.

Priority Application Deadlines

Prospective students are encouraged to apply well in advance of the date of the desired term of enrollment but no more than one year.

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>November 1</td>
</tr>
<tr>
<td>Summer</td>
<td>March 15</td>
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</tbody>
</table>

The application for admission, application fee, and all supporting official academic documents must be complete and received in the Office of Undergraduate Admissions by 5 p.m. on the respective deadline date. If the deadline falls on a weekend or university holiday, applications will be considered the following business day.

Admission to Specific Schools or Programs

Admission to the university as an undergraduate student may not be the final step required to gain admission to the desired school or academic program. For the undergraduate programs listed below, additional steps are required:

- College of Arts and Sciences (Music, Neuroscience, Computer Science)
- School of Business
- School of Education (Teacher Education Program)
- School of Engineering
- School of Health Professions
- School of Nursing

Further information on the additional steps required is given in the section of this catalog devoted to the particular school/college.

Declaration of School and Major

Applicants are asked to indicate an intended major field of study on the application for admission. Applicants who do not have a general field of interest may request admission as Liberal Arts in the College of Arts and Sciences. International students must declare a major.

Admission Appeal Procedure

Applicants denied admission to the undergraduate program who believe they have extenuating circumstances that might justify a different decision may appeal for further consideration.

Freshman

1. Applicants must complete and submit a Supplemental Admission Application. Any academic or personal information that would help the committee to make a fair and informed decision should be provided. A Supplemental Admission Application may be obtained from the Office of Undergraduate Admissions.

2. Applicants must submit a letter of recommendation from an individual (not a family member) who can speak knowledgeably about the applicant’s academic background and potential.

3. Students who are admitted through this procedure will be conditionally admitted and advised through the College of Arts and Sciences Advising Office. All conditionally admitted students are required to participate in New Student Orientation and confer with an academic advisor prior to registering for their first term at UAB. In addition, conditionally admitted students must limit their first-term course load to a maximum of 14 semester hours, which must include CAS 112 and UNIV 105. Students admitted conditionally will be required to confer with an academic advisor for at least two consecutive terms.

Non-Traditional Freshmen

1. Applicants must submit a letter addressed to the Admission Appeals Committee which addresses several issues regarding educational goals:

- **Declaration of School and Major:** Applicants are asked to indicate an intended major field of study on the application for admission. Applicants who do not have a general field of interest may request admission as Liberal Arts in the College of Arts and Sciences. International students must declare a major.

- **Admission Appeal Procedure:** Applicants denied admission to the undergraduate program who believe they have extenuating circumstances that might justify a different decision may appeal for further consideration.

- **Freshman:** Applicants must complete and submit a Supplemental Admission Application. Any academic or personal information that would help the committee to make a fair and informed decision should be provided. A Supplemental Admission Application may be obtained from the Office of Undergraduate Admissions.

- **Non-Traditional Freshmen:** Applicants must submit a letter addressed to the Admission Appeals Committee which addresses several issues regarding educational goals.
• What is your educational objective?
• How would a UAB education help you achieve your personal or career goals?
• What deterred you from enrolling in college before this time?
• To what extent are these factors still pertinent today?
• What challenges to successfully completing your education at UAB do you foresee?
• What steps have you taken to prepare for academic success at UAB?
• What support systems do you have in place to ensure success?

Transfer/Former UAB Students
1. Applicants must submit a letter addressed to the Admission Appeals Committee which addresses several issues regarding educational goals:
   • Reasons the applicant did not do satisfactory academic work when previously enrolled.
   • What the applicant has done since last enrolled in school.
   • What steps the applicant has taken to prepare for academic success at UAB.
   • Goals for personal development, career and education.
   • Why the applicant is now better able to complete goals than when last enrolled in school. In addition, former UAB students are highly encouraged to contact his/her former advisor to request information related to the student’s past performance prior to leaving UAB. This information should be sent directly to the Office of Undergraduate Admissions by the academic advisor.

2. Students who are admitted through this procedure:
   • Will be admitted to and advised through the College of Arts and Sciences Advising Office.
   • Must adhere to all policies and procedures of probation status.
   • Must limit their first-term course load to a maximum of 12 semester hours.

Both freshman and transfer/former student appeal documentation should be submitted to the attention of the Director of Undergraduate Admissions. Students who wish to appeal are highly encouraged to do so well in advance of the deadline. The deadline to submit all required appeal documentation is one week after the application for admission deadline of the desired term of enrollment.

Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP)
UAB awards credit to students who have earned designated scores on Advanced Placement (AP) Program examinations of the College Board. AP examinations are usually taken at the end of an AP-designed course of study in high school. Credit, if awarded, will be recorded without grades or quality points and will not, therefore, be included in the calculation of the grade point average.

Credits awarded by other institutions for Advanced Placement (AP), International Baccalaureate (IB), and the College Level Examination Program (CLEP) must be reevaluated to determine if credit will be awarded at UAB. Students wishing to submit such credits should send an official score report to the Office of Registration and Academic Records.

UAB score requirements for Advanced Placement, International Baccalaureate, and the College Level Examination Program are available online (https://www.uab.edu/students/undergraduate-admissions/freshman/academics)

Equal Opportunity Policy
UAB administers its educational programs and activities, including admission, without regard to race, color, religion, sex, sexual orientation, age, national origin, disability unrelated to job performance or Vietnam-era or disabled veteran status. The full text of this policy can be found http://sppublic.ad.uab.edu/policies/Pages/default.aspx.

Office of Undergraduate Admissions
Mailing Address for Documents and Credentials: Box 99 • 1720 2nd Ave S • Birmingham, AL 35294-4600
Physical Address: 1701 11th Avenue South • Birmingham, Alabama 35294-4412
(205) 934-8221 or (800) 421-8743 • ChooseUAB@uab.edu (undergradadmit@uab.edu) • www.uab.edu/apply

Freshman Admission
High School Graduates
1. Completion of a college preparatory curriculum to include the following:

2. Minimum high school grade point average (grades 9-12) of 2.25 on a 4.0 scale

3. Subject | Units | Description
---|---|---
English | 4 units | To include composition and literature
Science | 3 units | To include two courses with laboratory components
Mathematics | 3 units | To include algebra I and II, geometry, pre-calculus or other college preparatory or advanced level senior math
Social Science | 3 units | History, psychology, sociology, etc.
Foreign Language | 1 unit | One Language
Additional Core Courses | 3 units
4. Minimum ACT composite score of 20 or combined SAT score of 950 (critical reading + mathematics)

Home Schooled Students
UAB welcomes applications from students who are schooled at home. Home schooled high school students are reviewed for admission and for academic scholarships following the same criteria utilized for students who attend public and private high schools. The official high school transcript should contain the titles of courses in each subject area beginning with grade nine, course grades, overall GPA on a 4.0 scale, course grading scale, signature and contact information of the school administrator. The teaching credentials of the home school teacher should be included.

Non-Traditional Freshmen
Minimum admission requirements for students who graduated from high school 4 years ago or more and have not attended college or have attended college earning fewer than 24 semester hours:

1. Minimum high school grade point average of 2.25 or GED score of 520.
2. Applicants must take and pass the COMPASS examination; must achieve satisfactory minimum scores in all 3 (Algebra 37, English 60, and Reading 74) test sections. Go to http://www.uab.edu/testing/institutional-tests/compass for more information regarding the COMPASS exam.

Joint Admission Program
Freshman applicants seeking admission to UAB who do not meet admission requirements may be offered Joint Admission at one of UAB’s community college partners. This Joint Admission Program offer is based upon a holistic review of each applicant’s academic record. Students who accept the offer of Joint Admission must meet the following requirements to participate in the program:

1. Maintain continuous full-time enrollment at the community college (fall/spring).
2. Earn an Associates Degree from the community college prior to transitioning to UAB through the joint admission program.
3. Maintain a 2.0 GPA in all transferable college coursework.
4. Participate in New Student Orientation and confer with a UAB academic advisor prior to registering for their first term at UAB.

Joint Admission students will have the ability to utilize a variety of programs, resources and facilities at UAB while actively enrolled in the program, and transition directly to UAB once completing their Associates Degree.

Transfer Admission (http://uab.edu/transferapply)
Applicants with a minimum of 24 transferable college semester hours (not including dual enrollment coursework earned while attending high school) must:

1. Have a minimum grade point average of 2.0 in all such work.
2. Be considered in good standing at all previously attended colleges or universities.

Applicants who have earned college credits, but fewer than 24 semester hours, must have a 2.0 grade point average in all transferable college work attempted and also satisfy freshman admission requirements (See “Freshman Admission (http://uab.edu/apply)

Applicants who are permanent residents but attended a college or university outside of the United States must meet the same admission requirements as international students (See “International Admission (https://www.uab.edu/students/undergraduate-admissions/transfer/admissions-international)

Eligibility of College Credits for Transfer
The eligibility of credit for transfer to UAB depends both on the subject matter of the credit and on the accreditation status of the institution that awarded the credit.

Technical/vocational credits or remedial credits, whether earned at UAB or at any other institution of higher education, are not eligible for transfer and may not, therefore, be used to satisfy degree requirements. The exception to this rule is when the transfer of certain courses applicable to specific professional degree programs is approved in advance by the appropriate department. The accepted courses will be posted only while the student is in the degree program approving the credit. If the student changes programs, the courses will be removed. Credits earned while on academic suspension from UAB or another institution may be eligible for transfer. However, the UAB forgiveness policy can only be applied to grades earned at UAB.

Transfer credit in academic subjects will be considered for transfer to UAB from post-secondary institutions that are fully accredited by one of the six regional accrediting associations (see below) that offer the baccalaureate degree or associate’s degree leading to the baccalaureate degree. If an institution is not yet accredited, but has acquired candidate status from a regional accrediting agency, then academic credits from the institution will be considered for transfer to UAB.

- 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

Academic credit earned at Alabama Community Colleges during the initial organization of the Alabama College System (1965-1967) will be acceptable for transfer to UAB.

College courses completed at unaccredited non-candidate institutions are usually considered for transfer to UAB. However, applicants with credits in this category may contact the Office of the Registrar for information on the “Credit by Portfolio (https://www.uab.edu/students/academics/item/904-credit-by-portfolio)” option. The official determination of acceptability of courses from other institutions is the responsibility of the Office of the Provost.

Students having credits from institutions outside the United States should contact the international admission counselor (https://www.uab.edu/students/undergraduate-admissions/transfer/admissions-international/item/552-international-recruitment-and-student-services) prior to transfer to receive information on the transfer of international credits (https://
Credits awarded by other institutions for Advanced Placement (AP) (https://www.uab.edu/students/undergraduate-admissions/transfer/academics/item/315-ap-credits), International Baccalaureate (IB) (https://www.uab.edu/students/undergraduate-admissions/transfer/academics/item/659-ib-credits), and the College Level Examination Program (CLEP (http://www.uab.edu/testing/institutional-tests/clep)) must be reevaluated to determine if credit will be awarded at UAB. Students wishing to submit such credits should send an official score report to the Office of the Registrar.

**Limitations of Transferred Credit**

One half of the credit hours required for a degree may be transferred from a two-year college provided the courses are numbered as freshman-(100) and sophomore-level (200) courses.

**Acceptance of Transfer Credits toward a Degree**

College-level coursework transferred from a regionally accredited institution will be shown on the UAB transcript; however, applicability of the course toward a degree is determined by the student’s major department.

**Admission as an International Student**

International students are defined as any applicant who is not a U.S. Citizen or Permanent Resident. International students should apply at least six months in advance of desired attendance date in order to facilitate timely admission and enrollment.

**Freshman Admission**

Applicants who have completed secondary school abroad under a grading system different from the U.S. system must submit:

1. A general document evaluation which includes a minimum grade point average (GPA) computation of 2.25.
2. An official TOEFL score of at least 77 on the Internet-based version, or an IELTS score of 6.0 overall with a minimum of 5.5 on each section of the exam, is required if English is not the applicant’s native language.
3. An official ACT composite score of 20 or SAT score of 950 (critical reading + mathematics) if English is the applicant’s native language.

Applicants who have completed secondary school in the U.S. system or an IB Diploma must submit:

1. An official high school transcript mailed directly from the high school. If coursework completed at a secondary school abroad is not included on the U.S. high school transcript, a general document evaluation which includes a minimum grade point average (GPA) computation of 2.25 is also required.
2. An official TOEFL score of at least 77 on the Internet-based version, or an IELTS score of 6.0 overall with a minimum of 5.5 on each section of the exam, is required if English is not the applicant’s native language.
3. An official ACT composite score of 20 or SAT score of 950 (critical reading + mathematics).

A TOEFL or IELTS score is not required if the applicant has attended a U.S. high school for at least two years.

**Transfer Admission**

Applicants who have attended a college or university outside the United States must submit:

1. A course-by-course evaluation and translation of work completed at each institution. Applicants must have a minimum grade point average of 2.0 in all such work.
2. An official TOEFL score of at least 77 on the Internet-based version, or an IELTS score of 6.0 overall with a minimum of 5.5 on each section of the exam, is required if English is not the applicant’s native language.

Applicants who have attended a college or university in the United States must submit:

1. Official transcripts from each U.S. college attended must be mailed directly to the Office of Undergraduate Admission and have a minimum grade point average of 2.0 in all college work.
2. An official TOEFL score of at least 77 on the Internet-based version, or an IELTS score of 6.0 overall with a minimum of 5.5 on each section of the exam, is required if English is not the applicant’s native language. A TOEFL or IELTS score is not required if English is the applicant’s native language or if the applicant has completed at least 24 transferable semester hour of U.S. college coursework.

**Contingent Admission**

International students meeting UAB’s academic admission standards but not the language criteria may be granted contingent admission and granted up to two years to attain English proficiency as indicated by required test scores.

International students who wish to be considered for contingent admission will need to be admitted to UAB’s Intensive English Program (IEP) as a condition of their admission. Students will need to submit an IEP online application (http://www.uab.edu/eli/iep/apply-now) and application fee to UAB’s English Language Institute (ELI) in addition to the standard application for undergraduate admission. Students will be required to attend the IEP until they successfully complete Level 5 of the program or achieve the minimum test score requirement for the TOEFL or IELTS.

**Student Visa**

To obtain documents for an F-1 or J-1 student visa, applicants must provide a letter verifying support from the student’s financial sponsor, an original or certified copy of a bank statement confirming a balance sufficient to cover the first year’s tuition, fees, and living expenses, and...
a clearance form if transferring from another school within the United States.

To meet the requirements of the F-1 visa, international students must be full-time students. Full-time students are defined as those earning a minimum of 12 semester hours of credit for two consecutive semesters.

All others must provide a copy of their visa or I-797 approval notices about their status to International Recruitment and Student Services (international@uab.edu).

Health Insurance
All international students are required to register with the UAB Student Health Service and to carry a health and accident insurance policy approved by the UAB Student Health Service.

Readmission of Former UAB Students
Former students who have not been enrolled in undergraduate courses at UAB for one academic year or more, or who have attended another college since their enrollment at UAB, must apply for readmission. Former students are subject to the same conditions as newly-admitted students.

Former UAB students who are returning to continue their programs of study should consult with their academic advisor or department chair to determine whether curriculum or degree requirements have changed since their last enrollment.

Post-Baccalaureate Admission

Degree Seeking
Persons with a baccalaureate degree who wish to seek a second baccalaureate degree must apply by the published deadline and have a minimum grade point average of 2.0 in all undergraduate coursework attempted.

Non-Degree Seeking
Persons with a baccalaureate degree who wish to:

1. Meet prerequisites for advanced programs or
2. Satisfy requirements for professional certification

Must apply by the published deadline and submit an official transcript from the college or university from which the baccalaureate degree was earned.

Admission as a Non-Degree Student

Students who wish to enroll in undergraduate courses with no intent of pursuing a degree should apply by the published deadline to be considered as a non-degree seeking student (Temporary, Transient, and Non-Degree Post-Baccalaureate). The following restrictions apply to non-degree students:

1. Ineligible for financial aid or for priority registration.
2. If a course is over-enrolled, non-degree students may be dropped in favor of degree-seeking students.
3. May not participate in intercollegiate sports.

Temporary
A prospective student seeking personal enrichment or career enhancement may be admitted as a Temporary student. Temporary students are limited to applying a maximum of 24 semester hours to a UAB degree program.

Applicants in this category must be at least 25 years of age unless enrolling in an approved certificate program. Students must provide a letter of good standing if they have attended another college or university within the last year.

Transient Students
Persons who want to transfer credit earned at UAB back to their home institution where they are enrolled as a full-time student may be admitted as Transient students.

Requirements: Applicants for Transient status must submit an official transcript or letter of good standing from the home institution. Enrollment as a Transient student is typically for one term, with a maximum of two consecutive semesters.

Change from Non-Degree to Degree Status
A student with a non-degree classification who wishes to change to a degree-seeking classification must reapply for admission by submitting an application for admission and application fee. To be admitted as a degree-seeking student, the individual must:

1. Meet the published application deadline and admission requirements.
2. Submit all documentation required for a degree-seeking applicant.

Concurrent Enrollment and Dual Enrollment/Dual Credit

UBA welcomes applications from exceptional high school juniors and seniors who wish to earn college credit while still enrolled in high school. Evidence must be presented that enrollment at UAB would enhance the student's educational experience beyond that available in high school.

Requirements include:

1. A minimum grade point average of 3.0.
2. A recommended ACT score of 25 or SAT score of 1140 (combined critical reading and mathematics).
3. A letter of permission from a parent or guardian.
4. A letter of approval from the high school principal.

Concurrent Enrollment
A student applies for Concurrent Enrollment in order to take courses as a non-degree student at UAB, while concurrently enrolled as a junior or senior in high school. This option may be appropriate for students whose high schools do not participate in the Dual Enrollment/Dual Credit program.

Dual Enrollment/Dual Credit
The Dual Enrollment/Dual Credit option is available only to those students whose high schools have a formal Dual Enrollment/Dual Credit agreement with UAB. A high school junior or senior may apply for dual enrollment/dual credit in order to take courses as a non-degree student at UAB while still completing high school and apply credit earned at UAB both toward college requirements and toward the high school diploma.
Individual courses taken by dual enrollment/dual credit must be pre-approved by the student's high school. Prior to each term of enrollment under the dual enrollment/dual credit option, the student must submit a letter from the high school identifying the pre-approved course(s) to be taken for dual credit.

**Admission as an Auditor**

Applicants who wish to audit credit courses must follow standard admission procedures and meet minimum admission requirements.
New Student Orientation

Orientation is offered several times prior to the beginning of each term for all incoming freshmen and transfer students. Sessions include information about resources and services available to students to help them be successful. Additionally, new students meet with faculty and academic advisors and register for classes. Attendance at New Student Orientation is required for all new degree-seeking freshmen and transfer students prior to their first term of enrollment.

Office of New Student Orientation

University Boulevard Office Building 110 • 1201 University Boulevard • Birmingham, Alabama 35294 • Telephone: (205) 975-7999 • E-Mail: orient@uab.edu • Web: https://www.uab.edu/students/orientation
Student Life Activities and Organizations

UAB Student Life would like to invite you to complete your UAB experience by becoming involved in the many activities and organizations available to you as a student. Events range from relaxing at free movies or comedy shows, involvement in student governance, cheering on the Blazers, writing for the Kaleidoscope student newspaper, rappelling down a cliff, hiking the Grand Canyon and so much more. Each semester brings new events, new organizations, opportunities to make friends, get physically fit, learn, socialize, relax, and have a good time becoming a part of the Blazer community! We want you to get involved!!

This section of the catalog contains an alphabetical list of many of the activities and organizations and activities available to students.

Contact Us:

Student Life
205-934-4175
studentlife@uab.edu
Physical Address:
1715 Building
1715 9th Avenue South

Student Life Departments:

Athletic Team Support
205-975-5376
teamsupport@uab.edu
Physical Address:
Campus Rec Center, Room 190
1501 University Boulevard

Student Activities
205-934-8225
studentprograms@uab.edu
Physical Address:
Campus Rec Center, Room 190
1501 University Boulevard

Student Engagement
205-975-9509
engagement@uab.edu
Physical Address:
1715 Building
1715 9th Avenue South

Student Involvement
205-934-8020
getinvolved@uab.edu
Physical Address:
Campus Rec Center, Room 190

1501 University Boulevard

Student Media
205-975-9509
uabpublications@uab.edu
Physical Address:
Pita Stop Building
1106 12th Avenue South

Student Multicultural & Diversity Programs
205-934-8020
diversity@uab.edu
Campus Rec Center, Room 190
1501 University Boulevard

Camille Armstrong Memorial Scholarship Stepshow

The Camille Armstrong Memorial Scholarship Stepshow was established to honor the dreams and aspirations of Ms. Camille Yvette Armstrong. In 1986, only a few weeks prior to graduation, Camille was tragically killed in a motor vehicle accident. As an outstanding student leader involved in multiple organizations throughout campus, her death affected the entire UAB community. To preserve the memory of her dedicated service and love for UAB, a scholarship was established and is continually funded by this charitable event. Student leaders work dutifully to recruit the best NPHC step teams from the southeastern region of the US, and the event continues to be one of the largest stepshows in the state of Alabama. All proceeds fund the Camille Armstrong Memorial Scholarship, which is awarded to qualified African American students with aspirations to enter the field of Law or Political Science. Applications for the scholarship are made available each fall semester. For more information on the scholarship or the stepshow, contact The Office of Student Activities.

https://www.uab.edu/students/student-life/student-activities/camille-armstrong-memorial-scholarship-step-show

Campus Recreation

The Campus Recreation Center (CRCT) offers students, faculty, staff, and alumni access to a state-of-the-art recreation facility. The UAB Campus Recreation Center offers premier programs, facilities, and services! You will find something for everyBODY — free weights, multipurpose courts, an aquatic center, group fitness studios, nutrition education, cardio-fitness areas, a climbing wall, and much more.

The 150,000 square foot facility covers three floors housing: four basketball/volleyball courts; five racquetball courts (one of which can be converted to squash and four for wallball); four aerobics studios; one performance studio; 18,000 square feet of weight and cardio-fitness areas;
a game room; Kid Zone; an aquatics center with both lap and leisure components; a multi-purpose court used for indoor soccer, floor hockey, indoor flag football and badminton; a Juice Bar; an indoor track; and a climbing wall.

Patrons can also take advantage of the wellness services here at the Campus Recreation Center, which offer nutritional counseling, personal fitness assessments, massage therapy, and personal training. In addition, we have a Campus Rec Pro Shop in house, so if you forget something we’ve got you covered. Lastly, we have a number of lockers available for a one time annual fee. Limited time only, so contact membership services at 205-996-5038 today if you are interested! If you prefer not to purchase a locker, we have several areas in the facility, including the locker rooms, with day use lockers available; just bring a lock, store your belongings while you workout with your own lock, and take it with you when you leave - Free of charge! The CRCT is located at 1501 University Boulevard next to the Campus Green.

**Aquatics**  
[http://www.uab.edu/campusrecreation/programs/aquatics-/aq-class-description](http://www.uab.edu/campusrecreation/programs/aquatics-/aq-class-description)

The Aquatic Center housed within the Campus Recreation Center provides a place for members to swim laps as well as meet their leisure aquatic needs by swimming laps, floating through the lazy river or taking a dip in the hot tub. In addition the aquatics program offers swim classes, private lessons, life-guarding and WSI (Water Safety Instructor) classes, and pool parties for special events. The UAB Campus Recreation Center is pleased to announce our new affiliation with Starfish Aquatics Institute. Beginning the summer of 2013 the Starfish Aquatics curriculum will be used in our swim school program. Starfish Aquatics Institute, a nationally recognized curriculum for swim instruction, emphasizes water safety and promotes skill development by recognizing the achievements a swimmer makes as they advance through the program. For questions about pool party requests and/or other pool activities, please visit our website [http://www.uab.edu/campusrecreation/](http://www.uab.edu/campusrecreation/) or email cfaus@uab.edu. (%20cfaus@uab.edu)

**Fitness & Wellness Services**  
[http://www.uab.edu/campusrecreation/programs/ufit](http://www.uab.edu/campusrecreation/programs/ufit)

The Fitness and Wellness programs offered at the UAB Campus Recreation Center range from traditional Ufit classes and Studio V performance classes to personal training packages and wellness massage services. For more information on all of our fitness and wellness services or to schedule an appointment today, please contact fitness@uab.edu.

**Ufit & Instructional Group Fitness Classes**

Ufit classes are FREE to anyone with an active CRCT membership. Feel free to drop in any time or day of the week to participate in the wide variety of classes available! Instructional classes are offered throughout the year and provide anyone pre-registered with a more advanced learning experience. If you are interested in participating in any one of the instructional classes please register at our Membership desk. *All Instructional classes are open for active members and non-members.*

• We offer a wide variety of fitness classes, designed to fit your scheduling needs. From seasoned cyclers to those wanting to try yoga for the first time, Ufit has a class that will get you moving! [Download](http://www.uab.edu/campusrecreation/programs/fitness/schedules/

**Nutrition Counseling**

Campus Recreation members may schedule a nutrition session with a Registered Dietitian (R.D.) which will include a nutrition assessment, counseling, and diet instruction planning. Sign up for personal nutrition counseling and learn how to develop a personalized nutrition plan, assess your diet, gain knowledge about weight management techniques, learn tips and tricks on how to eat healthy while eating out, and how to choose healthy options at the grocery store. We understand that staying fueled up with healthy foods isn’t always easy. Here at the rec we are now offering an abundance of wellness services to help you meet your goals. Are you interested in knowing if you are making nutritious choices, how to shop on a budget, prepare quick and healthy meals? Visit our Registered Dietitian ([http://www.uab.edu/campusrecreation/programs/nutrition-services/catering/](http://www.uab.edu/campusrecreation/programs/nutrition-services/catering/)) today! Even if you are just looking for new recipes to prepare without all those added calories this is for you!

**Massage Therapy Services**

Celebrate a little YOU time by scheduling yourself a massage today! Appointments are available for 30 or 60 minutes and are performed by certified massage therapists. Choose from a variety of massage packages in order to customize the perfect relaxation for you. Massage therapy appointments are based upon the therapists’ schedules and availability. Please allow at least 24 hours advanced notice of your preferred appointment time in order for us to best schedule your appointment.

For more information or to schedule your next appointment, please email a completed Health History Form ([http://www.uab.edu/campusrecreation/images/Documents/FIT/Fall_13/health_history_form.pdf](http://www.uab.edu/campusrecreation/images/Documents/FIT/Fall_13/health_history_form.pdf)) and preferred days/times for your appointment to fitnes@uab.edu today!

**Competitive Sports**  
[http://www.uab.edu/campusrecreation/programs/competitive-sports](http://www.uab.edu/campusrecreation/programs/competitive-sports)

The Competitive Sports program offers activities such as Intramurals and Club Sports that involve individual and team competition.
Intramurals
All UAB students, staff, and faculty are eligible to participate in intramural sports. Faculty and Staff must adhere to the specific entrance policies if they are not campus recreation facility members. Individuals in any team league must have their campus card in possession to be eligible to participate. Every team league is offered in men’s, women’s and co-rec format. Each league will have a 4 week regular season followed by a single elimination playoff. For more information please visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports/schedules) or contact intramurals@uab.edu (%20intramurals@uab.edu).

Want to sign up? (http://www.imleagues.com/School/Home.aspx?&SchId=927a5b6e944220acad259198f8f2)

Individual Tournaments / Events
All single day tournaments are single or double elimination. Tournaments offered include: badminton, corn hole, billiards, table tennis, swim meet, track & field, triathlon, Texas Hold’em, and sand volleyball.

View tournaments here (http://www.uab.edu/campusrecreation/programs/competitive-sports).

*All tournaments start at 6:30 pm with registration starting at 6 pm.
*Tournaments will be free

Club Sports
A club sport is an organized group of individuals established to promote interest in a sport and develop skills of its members in that sport. A club sport may be organized for recreational, instructional, performance, or competitive purposes. For more information please visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports/clubs) or contact cjudkins@uab.edu (%20cjudkins@uab.edu).

Community Leagues
Anyone 18 years of age or older is eligible to participate. All community leagues are open to both UAB affiliated and non-UAB affiliated persons. Current sports offered include: flag football, basketball, indoor soccer, and volleyball. For more information please visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports/community-leagues) or contact cjudkins@uab.edu (%20cjudkins@uab.edu).

Adventure Recreation (http://www.uab.edu/campusrecreation/programs/adventure-rec-and-camps)
Adventure Recreation offers outdoor trips and clinics throughout the year including: kayaking, backpacking, camping, climbing, canoeing and whitewater rafting. Also offered are relay certification and lead climbing programs. Trips and clinics, such as the Wilderness First Responder training, are open to university students, faculty/staff, alumni, and the community. Contact outdoors@uab.edu (%20outdoors@uab.edu) for more information on trips, clinics, and rentals.

Climbing Wall
Located on the mezzanine level of the Campus Recreation Center, the 42' tall by 36' wide climbing wall offers 1,512 square feet of climbing. The wall’s climbing surface is constructed of reinforced polymer concrete panels and imprinted to match the look and feel of natural rock. Open to university students, faculty/staff, and alumni. The community may use the wall by private group rental.

Team Building
Campus recreation offers many opportunities for team building initiatives, catering toward campus groups, corporate outings, school groups and more! Our enthusiastic and skilled facilitators will guide your group through fun activities focused on enhancing or developing vital workplace and life skills such as teamwork, cooperation, communication, and trust. Our program can accommodate groups of any size. Initiatives work on developing or enhancing: communication, teamwork, trust, cooperation, team building, planning, and other common work place functions. Contact outdoors@uab.edu (%20outdoors@uab.edu).

Rentals
The Outdoor Pursuits Rental Center offers outdoor equipment for various events and is open to university students, faculty/staff, alumni, and the community. Whether backpacking, camping, or canoeing, the rental center has multiple rental time spans on the equipment you might need like sleeping bags, tents, backpacks, and cooking sets.

Youth Programming (http://www.uab.edu/campusrecreation/youthprogramming)

Summer Camps
Are you looking for a summer camp for your child that offers something more? If so, then UAB Campus Recreation Summer Camp Program is your place. We offer 10 consecutive weeks of diverse programming with the option of before- or after-care. Your child will have the opportunity to explore active sports, creative crafts, different cultures, and more. With the help of our amazing staff your child will get to experience everything the Rec Center and UAB has to offer. New LUNCH option now available. For more information visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports) or contact cjudkins@uab.edu (%20cjudkins@uab.edu).

Day Camps
Need a place for your children to hang out and have fun when you have to work but they don’t have school due to a school holiday or teacher’s day? We have a number of Day Camps available for the day at the Campus Recreation Center. Day Camps are from 9am-4pm and include carefully supervised activities such as rock climbing, team building, and games. Prices are $30 for UAB affiliates, $40 for non-members, and $5 off for each additional sibling. Before & After care is $5 each. For more information visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports) or contact cjudkins@uab.edu (%20cjudkins@uab.edu).

Home School Program
Any child who attends grade school at home is eligible to participate, and is open to both UAB affiliated and non-UAB affiliated persons. The program seeks to build skills in physical education and team sports. For more information visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports) or contact cjudkins@uab.edu (%20cjudkins@uab.edu)

Rec Swim School
The Starfish Swimming curriculum is designed for students aged 6 months to adult. Benchmarks are established at each stage in the program that combines both swimming and safety skills. Students will receive acknowledgment of individual achievement as they accomplish these benchmarks. Correct swimming techniques are taught from the
very beginning, providing an easy transition to swim team or lifetime fitness swimming. Our Instructors are over 18 years of age and are certified swim trainers through Starfish Aquatics Institute. Many are also Certified Water Safety instructors. All have training in First Aid, CPR and AED. For more information please visit our website (http://www.uab.edu/campusrecreation) or contact cfaus@uab.edu. (%20cfaus@uab.edu)

Each session consists of five classes.
Cost: Member // $35.00 Non-Member // $45.00

For all other information please view our website (http://www.uab.edu/campusrecreation) or call us at 205.934.8224.

Facility Hours:
Normal Hours: Mon-Thur (5am-11pm), Fri (5am-9pm), Sat (7am-9pm), Sun (9am-7pm)
Break Hours: Mon-Thur (5am-9pm), Fri (5am-9pm), Sat (7am-9pm), Sun (9am-7pm).

Career & Professional Development Services’ Mentor Program
UAB Career & Professional Development Services offers an annual Mentor Program for sophomores and juniors currently enrolled at UAB. The Mentor Program was established to help students experience a day-in-the-life of a professional in their chosen career field. This experience helps students make informed career choices by seeing and interacting with mentors and gaining insights on growth trends and projections. Mentors come from UAB Alumni and Community Partners who are willing to share their professional insights and help students in the professional growth and development. The program provides an opportunity for students and mentors to interact and discuss career goals, critical networking opportunities and practical advice. For more information, visit our website https://www.uab.edu/careerservices/ or call (205) 934-4324.

Civic Engagement
Office of Student Involvement
The Office of Student Involvement promotes and supports service and community involvement through engaging our students in a variety of meaningful service activities. The Office serves as a resource center for community service programming in order to help students expand their understanding of social/community issues, develop leadership skills, and work on solutions to real life problems. The Blazers on Break alternative spring break program and Summer Service Weekends promote community service, develops leadership skills, and creates strong bonds among its participants who travel to another community to participate in volunteer work addressing issues such as environmental protection, children, affordable housing, hunger, education, HIV/AIDS awareness, and disabilities. Through local partner fairs and large scale programs like Into the Streets Day of Service, Awareness Weeks, and Martin Luther King, Jr. Day of Service, students can get involved in many ways to make a positive difference on the lives of others in our community.

For more information, contact the Office of Student Involvement, getinvolved@uab.edu, (205) 934-8020, Campus Rec Center, Room 190, or https://www.uab.edu/students/student-life.

Homecoming Committee
One of the best aspects of attending a young university is the opportunity that exists to start traditions that can last a lifetime. The UAB Homecoming Committee is just one of those opportunities. The week of homecoming is filled with fun and spirited events that have included the Homecoming Parade, Fight Song Competition, and the Bonfire/Pep Rally. The planning committee begins meeting in the spring semester; however, new members are welcome up to the week of homecoming. For more information, contact the Office of Student Involvement at (205) 934-8225.

Leadership Programs
Office of Student Involvement
The Office of Student Involvement coordinates campus-wide leadership programming to help students reach their potential in and out of the classroom. In additional to one-on-one leadership consultations, our office coordinates the Leadership Foundations, a co-hort style leadership class, Lunch with a Leader, the Fall Leadership Conference, and the Winter Leadership Retreat.

For more information, contact the Office of Student Involvement, getinvolved@uab.edu, (205) 934-8020, Campus Rec Center, Room 190, or www.uab.edu/studentlife.

Lecture Series
The Lecture Series allows the UAB community to share in the most recent, informed perspectives on a wide range of significant issues. Thought provoking lecture topics range from current world concerns such as the environment to issues related to academia. Guest lecturers have included prominent political leaders, historical figures, popular television and movie stars, including Green Party Presidential candidate Ralph Nader, Animal Planet star Jeff Corwin, Frank Warren of PostSecret, "Push" (adapted for the film "Precious") author Sapphire and author Michael Shermer. For more information, contact the Office of Student Involvement and Leadership at (205) 934-8020.

Miss UAB Scholarship Pageant
An official preliminary to the Miss Alabama Pageant, the Miss UAB Pageant offers young women the opportunity to further their educational goals through scholarship and personal growth. Planned and produced by UAB students, the Miss UAB Scholarship Pageant is held during the fall semester. For more information on being a contestant or to join the planning committee contact the Office of Student Involvement and Leadership at (205) 934-8225.

Springfest
Springfest is an all-day celebration that includes great food, music, fun games and novelties. Springfest provides a day filled with fun, laughter, and relaxation for UAB students, faculty and staff. Students on the committee help plan and promote the event. For more information, visit the Office of Student Involvement or call at (205) 934-8225.

Student Diversity Programs
Student Multicultural & Diversity Programs serves the UAB Community, especially our students, by developing programs and resources that promote multicultural and social justice awareness, education and appreciation. Additionally, we support the growth of students' attitudes,
ideas, and behaviors as they relate to multicultural issues and personal and social identities.

Student Multicultural & Diversity Programs focuses on the six areas of Cultural Engagement, Student Leadership, Dialogue and Critical Thought, Mentorship Programs, LGBTQ Programs, and Diversity Training, each creates opportunities for student involvement and education, advocacy, and awareness.

UAB Community Week

UAB Community Week is a campus-wide celebration of the diversity that exists within the UAB Community. The week and many of its events are sponsored by Student Multicultural and Diversity Programs in conjunction with the Department of Student Life and the Office for Equity and Diversity. The programs and events are designed to create awareness of different cultures and social groups by way of art, food, and musical presentations. Community Week also encourages dialogue and celebrates different racial and ethnic groups by its diverse lectures, programs, and activities. One of the signature events of the week is the President’s Diversity Award Banquet. At this event, an undergraduate, graduate and professional school student along with a faculty and staff member, are given an award for their efforts in diversity.

Free Food for Thought

Free Food For Thought is a dialogue series that encourages building a community that values diversity. Interested participants exchange viewpoints on selected topics, resulting in a greater awareness about issues and experiences across social and personal identities. Learning from one another through facilitated respectful discussion helps us value the contributions of our peers. In exchange for opinions, we provide Free Food.

International Film Series

The purpose for an International Film Series is to engage, educate, and involve the viewers beyond the visual medium. It should raise interesting questions by reflecting on shifting social or cultural boundaries or challenging certain boundaries, and allowing the viewers to reach their own conclusions. In doing so, these series of films not only aim to promote multiculturalism, but also to broaden the viewers’ emerging cultural awareness.

Multicultural Council

Interculture is UAB’s first university-wide multicultural programming committee. Resources are available to educate and encourage cross-cultural interaction among students of all races, nationalities, and ethnic origins. Heritage celebrations are held throughout the year.

International Mentor Program

UAB International Mentors is a program that provides incoming international students with valuable information about UAB, Birmingham, and the United States. International Mentors serve the UAB international community by offering programming, support, and assistance to better meet the needs of incoming new students. The mentors are chosen through a highly selective process each spring and go through extensive training to offer the best services possible.

Blazer Male Excellence Network

The BMEN Peer Mentoring Program is designed to provide academic and social support to Black male students entering UAB. BMEN’s overall goal is to improve the quality of life for the new student by partnering a returning student with a new student, and by staff providing information on navigating the collegiate experience inside and outside the classroom. The mentors are selected each spring and go through extensive training to offer the best services possible.

Safe Zone

Safe Zone is one way to say that all sexual orientations and gender representations are part of our culture and are acknowledged and supported. The Safe Zone Program provides a visible network of volunteers for gay, lesbian, bisexual, transgender and other students seeking information and assistance regarding sexual orientation.

Talent Search

The annual Talent Search allows students to showcase their talent and compete for cash prizes. Members of the Talent Search Committee develop the program from the ground up, including staging auditions, scripting the show, and handling the promotion of the event. For more information, visit the Office of Student Involvement and Leadership at (205) 934-8225.

Theatre Activities

UAB Department of Theatre

The UAB Department of Theatre presents several productions each year in the Alys Stephens Center’s Sirote Theatre and the Odess Theatre. Students of all majors can audition, build productions and participate on running crews for credit. Special ticket pricing is available for UAB students. For more information, contact the Department of Theatre at (205) 934-3236.

Ambassador Program

The UAB Ambassador Program is the oldest and most prestigious student program on campus. This group of dedicated students are committed to the University by serving as the official hosts and hostesses at officially recognized activities and events of the University of Alabama at Birmingham. This select group of 20 individuals primarily serve as liaisons between the students, faculty, staff, administrators and the entire UAB community. At all times, they embody through their demeanor and speech, everything for which UAB stands.

Functions of the Ambassadors include providing information and assistance to the UAB Administration, faculty, staff, student body, and visitors.

Selection of UAB Ambassadors occur each Spring. Applications become available in December of each year in the Office of Student Activities— CRCT 190.

Requirements include:

- 10—15 minute personal interview
- Completed Application
- 2 Letters of Recommendation

The University of Alabama at Birmingham
• Minimum GPA of 3.0
• One completed semester as a full-time student

Once Ambassadors are selected, they will begin training in the Spring semester and will begin official duties as an Ambassador at Spring graduation.

For more information, visit the Office of Student Activities, Room 190, Campus Recreation Center or call (205) 934-8225.

**Athletic Team Support Groups**

Blazer support groups include the UAB Golden Girls, Cheerleaders (small coed), mascot (Blaze), Blazer Band, and the UAB Marching Blazers. These groups perform at UAB basketball, volleyball, and football games and at a variety of events in Birmingham. Each spring tryouts are held and are based off of performance and interviews. For more information on cheerleaders, mascot, and Golden Girls, contact the Athletic Team Support Office, Room 190, Campus Rec Center, (205) 934-8020. For information on the Blazer Band and the UAB Marching Blaziers, call the Department of Music, (205) 934-7375. You can also visit the website https://www.uab.edu/students/student-life/item/818-uab-spirit

**Black Student Awareness Committee**

The Black Student Awareness Committee (BSAC) was created to enhance the UAB collegiate experience through promotion of educational events and programs that expose the true diversity of the black culture. In addition to sponsoring year-round activities such as the Umoja New Student Welcome, Kwanzaa, and Dr. Martin Luther King Day Celebrations, the committee also programs and coordinates a majority of the UAB Black History Month festivities. For more information, come by the Office of Student Life.

**Blaze Productions Committee**

Blaze Productions is made up of student volunteers who assist in choosing artists, securing contracts, hosting entertainers, running technical equipment, and promoting and producing campus entertainment. Its focus is to provide the UAB community with quality music or comedy experience at little or no expense. Blaze Productions operates year round, which also gives students entertainment options during the summer terms. Events are held in a variety of venues on campus and off, and attempt to mirror the diversity of the UAB campus. No experience is necessary to join this committee. For more information, come by the Office of Student Life.

http://www.uab.edu/students/student-life/student-media

**BlazeRadio**

Tap into the Blazer groove 24 hours a day with BlazeRadio, the student Web radio station. Tune in online, or download our smartphone app for radio to go, and check out the latest alternative, rock, hip hop, jazz, dance, country, and more selected by UAB DJs. Or check out the news, sports, and talk shows. BlazeRadio also streams a second channel for jazz and classical music.

If a job in radio sounds good, BlazeRadio offers volunteer spots on the air and behind the scenes. Check the BlazeRadio site for details on programming, promotion, technology, and management positions. On-air slots require an audition. Get started by requesting to join the team on B-Sync.

To start the tunes, click over to the official BlazeRadio site at http://www.blazeradio.org. Our studio is located in UAB Building 1110 (Pita Stop Building), (205) 934-3354 (WBLZ). BlazeRadio is a production of Student Media in UAB Building 1110 (Pita Stop Building). Email: Info@InsideUAB.com (info@insideuab.com).

**Fraternities and Sororities**

**Office of Student Involvement**

Looking to excel in your academics? Have incredible leadership opportunities? Give back to the community and a cause bigger than yourself? Most importantly, looking for a home away from home? The fraternities and sororities here have set the bar high for UAB students in terms of scholarship, leadership, philanthropy and service, and brotherhood and sisterhood. We currently have over twenty fraternities and sororities across four councils: the College Panhellenic Council, Interfraternity Council, National PanHellenic Council, and Multicultural Greek Council. Our diverse groups welcome students from all backgrounds, and will help you lay a foundation for success that lasts long after your college years have ended.

For more information, contact the Office of Student Involvement, getinvolved@uab.edu, (205) 934-8020, Campus Rec Center, Room 190, or www.uab.edu/studentlife.

**Honor Societies**

UAB recognizes many national honor societies that acknowledge scholastic achievement, citizenship, and outstanding leadership among students. For more information, come by the Office of Student Involvement, Room 190, Campus Recreation Center, (205) 934-8225. Also please visit http://uab.orgsync.com for more information.

**Music Ensembles**

Students of all majors are invited to participate in instrumental or vocal music ensembles offered through the Department of Music. Each group performs on campus several times each year; some also perform for selected off-campus events. Some prior experience and brief auditions are required. Several scholarships are available each year for students who perform with these groups. For more information, contact the Department of Music, (205) 934-7375.

**Vocal Groups**

**Chamber Singers**

This advanced choral group performs a variety of choral music representing different periods and styles. The group is open to students of all majors. A short audition is required. For more information, please contact Dr. Brian Kittredge at (205) 975-2599 or briank@uab.edu.

**Concert Choir**

This choral group performs music representing a variety of periods and styles. Some music-reading ability is needed. The group is open to students of all majors. A short audition is required. For more information, please contact Dr. Brian Kittredge at (205) 975-2599 or briank@uab.edu.
Gospel Choir
This ensemble performs traditional and contemporary gospel choral music. It is open to students of all majors. Students with significant skill in playing gospel, jazz and/or pop keyboard, rhythm guitar, bass guitar, saxophone, and drums are also encouraged to participate in the Gospel Choir. For more information, please contact Mr. Kevin Turner at (205) 934-8906 or kturner@uab.edu.

Opera Workshop
This ensemble performs opera scenes as well as fully staged, complete operas. It is open to students of all majors. A short audition is required. For more information, please contact Dr. Kristine Hurst-Wajszczuk at (205) 934-8906 or khw@uab.edu.

Bands
Blazer Band
As part of the university band program, the Blazer Band provides support for UAB Blazer basketball. It performs at all home and selected away games and for post-season events such as the annual Conference USA tournament. For further information, please contact the band office at (205) 975-BAND (975-2263).

Jazz Ensemble and Jazz Combos
Instrumentalists can further their musical knowledge and creative skills by performing classic and contemporary jazz, swing, and rhythm and blues. For further information, please contact the band office at (205) 975-BAND (975-2263).

UAB Marching Blazers
The UAB Marching Blazers is part of the university band program supporting UAB Blazer football. The Marching Blazers perform for all home football games and selected away games and for area marching festivals and parades. Scholarships are available. For further information, contact the band office at (205) 975-BAND (975-2263).

Wind Symphony and Symphony Band
As part of the university band program, the Wind Symphony and Symphony Band perform the finest concert band literature in campus concerts, selected special performances, and an annual spring tour. Band placement is contingent upon a brief audition. Scholarships are available for students who participate in the Wind Symphony or Symphony Band and the Marching Blazers. For further information, please contact the band office at (205) 975-BAND (975-2263).

Student Media
Kaleidoscope, UAB’s student newspaper, was here before there was a UAB. Students have been gathering, editing, and distributing the news about the UAB community since 1967.

During the years, the “K-scope,” as it is known on campus, has played a vital role in helping keep students informed as well as providing a public forum for the discussion of timely issues of interest to our community.

As times have changed, so has UAB’s Student Media – trading in typewriters for computers, adding more color to its print edition, and aggressively converging what had once been a print-only medium into a contemporary operation that delivers content not only in print but daily on the web and through mobile devices.

And, UAB’s Student Media has expanded along the way with these innovative media:

- Interactive Student Media, the web services group that powers “K-scope” Online.
- Streaming internet radio (BlazeRadio (http://www.blazeradio.org))
- Literary and visual arts magazine (Aura Literary Arts Review)
- Direction Handbook (http://www.uab.edu/handbook)

Regardless of the medium, however, at the heart of these operations are students who gain real-world experience and training that has equipped them for entry into the professional world. Over the years, teams of students have won numerous regional and national awards for journalistic excellence.

Student Media alums have gone on to work for a variety of media, ranging from community journalism to major metropolitan operations across the U.S. with most crediting their experiences with student media at UAB as essential to their careers.

Today, students produce content for all facets of these operations, including wrangling multimedia and mobile technologies to adapt the medium for display on smartphones and tablets. These innovations are produced by students themselves and are among some of the most cutting-edge concepts in collegiate journalism in the nation.

Student Media is always looking for those who want to join a team dedicated to finding the next great idea in serving our community. Perhaps that’s you. Contact us today.

For more information, contact:

Student Media Office
UAB Building 1110 (Pita Stop Building) • Telephone (205) 934-3354 • Find us on B-Sync or Email: info@insideuab.com

Student Organizations
UAB recognizes many organizations concerned with the academic, social and personal development of students. Organizations include groups with interests in religion, music, athletics, and cultural diversity. In addition, nearly every academic major is represented by a student organization. For more information, come by the Office of Student Involvement, Room 190, Campus recreation Center, Telephone (205) 934-8225. For a full list of organizations please visit Bsync (http://uab.orgsync.com/home) our official portal for all Student Organizations.

UAB TrailBlazers
The UAB TrailBlazers (http://www.uab.edu/trailblazers) are UAB’s official student recruitment team. TrailBlazers assist the Office of New Student Programs by providing in-depth information about UAB to prospective students and their families. Chosen annually, TrailBlazers strive to ensure that students know about the diverse academic, cultural, and extracurricular interests found within the UAB community. These highly motivated, energetic, and dedicated students are chosen to represent the Division of Enrollment Management at special on- and off-campus recruitment events and campus tours. For more information, contact the Office of New Student Programs Campus Tour Center,
University Boulevard Office Building, Room 110, (205) 934-9098 or TrailBlazers@uab.edu.

Undergraduate Student Government Association (USGA)

Office of Student Involvement

The Undergraduate Student Government Association provides programs and services for undergraduate students in the Schools of Business, Education, Engineering, Health Professions, Nursing, Public Health, and the College of Arts and Sciences. Elections for these positions are held each February. Students can also serve by running for a Senator-At-Large position or serving on a USGA committee. The USGA also represents student issues, concerns, and views to the administration.

For more information, contact the Office of Student Involvement, getinvolved@uab.edu, (205) 934-8020, Campus Rec Center, Room 190, or www.uab.edu/studentlife.

Service and Volunteering Opportunities

Office of Student Involvement

Students can get involved in various service projects and local communities by using Bsync, our online portal for getting involved. To browse and sign up for service opportunities, log in to BSync at www.uab.edu(bsync, click on “My Tools”, then click “Service Opportunities”. You can search by name or keyword.

For more information, contact the Office of Student Involvement, getinvolved@uab.edu, (205) 934-8020, Campus Rec Center, Room 190, or www.uab.edu/studentlife.

Student Engagement

The Office of Student Engagement aims to provide developmental learning, holistic engagement, and preventative education to every member of the UAB community.

For more information, contact the Office of Student Involvement, getinvolved@uab.edu, (205) 934-8020, Campus Rec Center, Room 190, or www.uab.edu/studentlife.

The Student Engagement staff aims to:

• Work with students to help identify and overcome barriers to success
• Help students get connected to campus and community resources
• Serve as advocates to help students navigate the university system
• Provide referrals for longer-term care
• Conduct outreach and education to students and other campus community partners on relevant issues students may face
• Serve in consultation with staff, faculty, students, and families
• Interpret and uphold the University Non-Academic Code of Conduct to provide a safe and inclusive campus community environment

CARE Team

You’re not alone; we are here to help
Student Engagement is committed to nurturing, protecting, and providing for its students. If you or someone you know is the victim of a physical or sexual assault or domestic violence, please remember; you are not alone. It is not your fault. UAB departments such as Counseling and Wellness, Student Health Services, Women’s Counseling Center, and Student Engagement are here to offer assistance. Within Student Engagement, we have Case Managers to work closely and confidentially with undergraduate and graduate students. We will help you report a crime, receive medical attention, or get you connected to the right resources. If you or someone you know is struggling with depression, thoughts of suicide, or alcohol or drug abuse, we have assembled a list of medical professionals, counselors and support agencies, both on and off campus, to aid in your success at UAB.

Visit the Student Engagement web site at: 
https://www.uab.edu/students/services/student-engagement

Undergraduate Student Government (USGA) CARE Team

When you are concerned about a student, know that the CARE Team is here to help. The UAB CARE Team (Communicate, Assess, Refer, Educate) helps find solutions for students experiencing academic, social, and crisis situations, including mental health concerns. Members of the University community can report a concern for a student who might benefit from services. We review these reports to understand each student issue and the on and off campus resources that may guide them to success.

The CARE Team steps in to connect students with relevant campus resources and outside agencies. Most times, we may need to communicate with the reporting party to help accurately assess the needs of the student. The CARE Team will also reach out to the student to understand his/her situation and develop a plan of action leading towards his/her success.

Leadership and Service Council (LSC)

Office of Student Involvement

The LSC consists of 12 selected student leaders and is responsible for coordinating various events and programs related to serving others and creating awareness for current social issues. Selection for this council takes place in the spring semester, usually in February each year. Advised by the Office of Student Involvement, LSC has five committees, and these student leaders are responsible for all aspects of events sponsored by the LSC, including event logistics, marketing, and volunteers. LSC also assists with the planning and execution of other events sponsored by Civic Engagement, including Civic Engagement Fairs, Blazers on Break, and Summer Service Weekends.

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Omicron Delta Kappa

Known as “the national leadership honor society,” the Omicron Delta Kappa Leadership Honorary recognizes students in the top 35 percent of their class who excel in one of the five phases of campus life— scholarship, athletics, student involvement, journalism & mass media, and creative & performing arts.
Student Services and Facilities

This page contains a list of facilities and services available to UAB students. For further information on these and other facilities and activities, contact the UAB Information Center (https://www.uab.edu/students/services/item/1021-info-center), located in the Residence Life Center at Blazer Hall or refer to the UAB student handbook, Direction, at https://www.uab.edu/students/ and on BlazerNET (http://www.uab.edu/blazernet) on the Student Resources tab.

Academic Advising

Academic advising is designed to assist students in identifying and achieving their educational and career goals. Specific guidance is given in selecting majors and choosing courses to satisfy degree requirements. Each student is assigned an academic advisor based on their choice of school and major.

College of Arts & Sciences


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<tr>
<th>School/Area/Advisor</th>
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<tbody>
<tr>
<td>Ms. Kassie Doggett</td>
<td>(205) 934-6135</td>
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<tr>
<td>Ms. Brigette Weatherby</td>
<td>(205) 934-6135</td>
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Anthropology, Criminal Justice, Economics, History, International Studies, Political Science, Sociology, Social Psychology

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<tr>
<td>Mr. Kip Hubbard</td>
<td>(205) 934-6135</td>
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<td>Ms. Deborah Littleton</td>
<td>(205) 934-6135</td>
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Biology or Natural Science

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<tr>
<td>Ms. Ovuke Emonina</td>
<td>(205) 975-4632</td>
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<tr>
<td>Ms. Britney Giles</td>
<td>(205) 974-8321</td>
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<td>Ms. Tyna Adams</td>
<td>(205) 934-6025</td>
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Chemistry

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<tr>
<td>Mr. Jamie Grimes</td>
<td>(205) 934-7529</td>
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Computer and Information Sciences

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<th>School/Area/Advisor</th>
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<tr>
<td>Mr. John Faulkner</td>
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Foreign Languages

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Health-Related Programs (pre-nursing)

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<tr>
<td>Mr. Kevin Jerrolds</td>
<td>(205) 934-6135</td>
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<td>Ms. Tisha Morrisey</td>
<td>(205) 934-6135</td>
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Liberal Arts/Health Related Programs

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<tr>
<td>Ms. Kimberly Lowe</td>
<td>(205) 934-6135</td>
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<td>Mr. Andrew Meythaler</td>
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Mathematics

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<tr>
<td>Dr. Jeanne Hutchison</td>
<td>(205) 934-2154</td>
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Neuroscience

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<tr>
<td>Jennifer Farnham</td>
<td>(205) 934-6135</td>
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Physics

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<tr>
<td>Mr. Gary Applewhite</td>
<td>(205) 934-6135</td>
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Pre-Health Majors: Pre-Medicine, Pre-Dentistry, and Pre-Optometry

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<tr>
<td>Ms. Linda Luck</td>
<td>(205) 934-6135</td>
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<td>Dr. Cheryl Moser</td>
<td>(205) 934-6135</td>
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Pre-Law

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<tr>
<td>Dr. Rob Robinson</td>
<td>(205) 993-2533</td>
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<td>Dr. John Sloan</td>
<td>(205) 934-2069</td>
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Psychology

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<td>Ms. Jennifer Farnham</td>
<td>(205) 934-6135</td>
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Social Work
School/Area/Advisor Telephone
Mr. Kip Hubbard (205) 934-6135

Individually Designed Majors/Minors
Students interested in an Individually Designed Major or Minor should contact their current Academic Advisor or Dr. Catherine Danielou, Senior Associate Dean for Undergraduate Academic Affairs, danielou@uab.edu or (205) 934-5643.

School of Business
Accounting & Finance
School/Area/Advisor Telephone
Ms. Jessica Smith (205) 934-8813

Marketing and Economics
School/Area/Advisor Telephone
Ms. Laura Weems Tull (205) 934-8813

Undeclared Business and Business Minors
School/Area/Advisor Telephone
Ms. Melody Lake (205) 934-1651

Industrial Distribution
School/Area/Advisor Telephone
Ms. Kristen Craig (205) 975-5810

Management and Information Systems
School/Area/Advisor Telephone
Ms. Andrea Miller Pound (205) 934-8813

Education
School/Area/Advisor Telephone
Ms. Sha’Neithia Johnson (Senior, Post-Baccalaureate) (205) 934-7530
Ms. Awilda Jones (Juniors, Post-Baccalaureate) (205) 934-7530
Ms. Samara Massey (Freshman) (205) 934-7530

School of Engineering
School/Area/Advisor Telephone
All PRE, Undeclared, first-term BME, and first-term transfer students (205) 934-8410
Biomedical Engineering (205) 934-8420
Civil Engineering (205) 934-8430
Electrical Engineering (205) 934-8440
Materials Engineering (205) 934-8450
Mechanical Engineering (205) 934-8460

Health Professions
Pre-Health Professions
School/Area/Advisor Telephone
Mr. Bernard Harris (205) 934-5963

Pre-Health Sciences and Pre-Health Information Management
School/Area/Advisor Telephone
Ms. Susan Packa (205) 934-5173

ROTC
Army
School/Area/Advisor Telephone
LTC Christopher Carter (205) 934-8746 or (205) 934-7215

TRIO Academic Services
School/Area/Advisor Telephone
Ms. T. Lyons (205) 934-2729

Barnes & Noble at UAB
Barnes & Noble at UAB is located at 1218 6th Avenue South. The bookstore posts official lists of UAB courses and stocks the textbooks and all other items necessary for successful UAB coursework. Most textbooks can be purchased new or used. The option to rent textbooks is also available for some courses. The bookstore has entered into an agreement with Microsoft to offer name brand computer software to students, faculty and staff at substantially reduced prices. The bookstore carries study aids, reference materials, school and office supplies; the largest assortment of medical reference books in the Southeast; medical instruments, lab coats, and scrubs; and the largest assortment of UAB logo apparel and gifts available. Contact Barnes & Noble at UAB at (205) 996-2665 or visit the store online at http://uab.bncollege.com

Birmingham Area Consortium for Higher Education (BACHE) Library Cooperation
The Birmingham Area Consortium for Higher Education (BACHE) consists of UAB, Birmingham-Southern College, Miles College, the University of Montevallo, and Samford University. Students, faculty, and staff at BACHE institutions may access the resources of all member libraries by simply presenting their valid ID cards. It is best for students to discuss research projects first with the reference staff at UAB’s library before using other member libraries. The rules and regulations of the lending library are in effect.

http://www.uab.edu/bache/

Campus Restaurants
Craving the sort of canned fruit, mystery meat and slightly doughy roll glop you struggled to choke down all the way through elementary school? Sorry, we can’t help. Instead, think delicious food, wide variety, good prices, lots of places. Conveniently located within walking distance of classes, residence halls, many off-campus apartments and the Campus Recreation Center, UAB Campus Restaurants offers delicious food at a great value with an inviting atmosphere where you can hang out with friends.
Walking around campus, stop in at ZeBi in the Business and Engineering Complex to pick up a freshly made sandwich, organic fruit teas, or a snack on the go. Take a study break and visit Starbucks in Mervyn Sterne Library for a quick coffee fix. Heading to the gym? Make sure to stop at the PowerZone to grab a bottle of water and stay properly hydrated. Visit the Learning Resource Center and stop in Einstein Bros Bagels for fresh baked bagels, schmeared, coffee, sandwiches and more.

For more information about Campus Restaurants, please stop by the UAB Campus Restaurants office located on the top floor of the Commons on the Green next to the Diner, or call (205) 996-6567. You can also visit us online at http://www.uab.edu/dining/.

UAB Campus Restaurants Locations
For updated hours of operation visit: http://www.uab.edu/dining/locations

Math Learning Lab
Located on the second floor of Heritage Hall, the Math Learning Lab offers free tutoring in basic and intermediate algebra, pre-calculus algebra and trigonometry, business calculus, finite mathematics, elementary statistics, and calculus I, II, and III. One-on-one tutoring and homework help are available with no appointment necessary.

Mervyn H. Sterne Library (http://www.uab.edu/library/sterne)

The Mervyn H. Sterne Library is located at 917 South 13th Street. Named in memory of the late Birmingham philanthropist and civic leader Mervyn H. Sterne shortly after it opened in 1973, the facility has special collections, seminar rooms, group study rooms, lockable study carrels, computers, color and black and white printers, copiers, and seating for 1,350 users. Sterne Library houses a collection of more than a million items selected to support teaching and research at UAB. In addition to books and periodical subscriptions, the collection consists of microforms and other print and non-print materials. Sterne Library provides electronic access to the contents of over 35,044 serials and 72,000 electronic books.

Sterne Library’s Web site is a portal to everything library related. The online catalog provides rapid access to the Sterne Library collection as well as other major library collections in Alabama. There are many resources on Sterne Library’s Web site, such as the Undergraduate Research Toolkit, subject- and course-specific research guides, and a list of FAQs.

The first floor of Sterne Library was renovated in 2010 to make it even more patron-friendly. The Library now has additional computers, collaborative study spaces, more group study rooms, the University Writing Center, and a Starbucks. Sterne Library is open until 2:00 A.M. most days, and during final exams, it is open for 24-hour periods to accommodate students’ late hours. See Sterne Library’s home page for the week’s hours of operation.

Reference services are provided by general and subject-specialist librarians. The Reference Desk is staffed during most library hours to assist patrons in identifying and locating materials and information. Reference services include research assistance, citation clinics, scheduled classes, help locating and using microforms, and interlibrary loan.

The User Services Department, through its automated circulation system, tracks materials continuously and can determine the location or status of a book. This department is also responsible for managing the individual and group study rooms. The Reserve Desk circulates high-use materials placed on reserve by instructors.

Through reciprocal borrowing agreements, UAB students and faculty may use library facilities at a number of other colleges and universities in the area. For additional information, inquire at the Reference or Circulation Desks.

Telephone numbers: (205) 934-6364 (Reference Services), (205) 934-4338 (User Services), and (205) 934-6360 (Administrative Office)

Library home page: http://www.mhsl.uab.edu/

Physical Education and Recreation Facilities

Physical education and recreation facilities are open to all UAB students upon presentation of a valid UAB ID card. Faculty, staff and alumni have the option to purchase memberships at the Campus Recreation Center. Students, faculty, staff, and alumni may also purchase household memberships for those residing in their immediate household.

Tennis Courts

UBA maintains 4 lighted tennis courts on campus at the block of 16th Street and 11th Ave South. Students, faculty, and staff can access the courts by using their UAB ID card. All cards must be programmed by the campus card office for students and at UAB Physical Security for faculty and staff. For more information concerning the courts please call 934-5008.

Track Field

Also enclosed and lighted, this field covers the entire block of 12th Street and 6th Ave South. This field primary serves the Blazer Football and Track team practices, Intramural flag football, ultimate Frisbee competition and physical education classes. It is surrounded by a quarter mile, synthetic running track and is also equipped with a field events area. For further information concerning this area please call 934-5008.
George C. Wallace Physical Education Complex

Primary function is for physical education credit classes and athletic department practices and training. It is located at 608 13th Street South. For more information please call 934-5008.

Smolian International House

The Bertha and Joseph Smolian International House, 1600 10th Avenue South, offers services and activities for international students and scholars. Known as the I-House, it provides a focal point for programs and activities designed to foster a free exchange of information and international understanding. The facility includes meeting space for campus groups, as well as community groups having an international purpose. For additional information or a schedule of activities, call (205) 934-3328. https://www.uab.edu/students/international

Student Housing and Residential Life

Student Housing facilities include a suite-style residence hall, and four apartment-style residence halls. Student Housing is centrally located on campus and is within walking distance of all classroom buildings, libraries, campus dining facilities, the Medical Center, and the Campus Recreation Center and other student recreation facilities.

Student Housing is limited to undergraduate students who are admitted to UAB and who are in good standing. "Good Standing" means not on academic or disciplinary suspension. As an additional eligibility requirement, a student must be enrolled for twelve credit hours as an undergraduate during the academic year. The summer term is treated as an independent term. Applicants applying for the summer term must be enrolled for twelve credit hours prior to the summer term.

Residence Life Coordinators and Resident Assistants (RAs) serve as live-in professional staff and student leaders within the residence halls. The Residential Life Program consists of educational, cultural, recreational, and social events based on the needs and interests of the residents. In addition to planning these programs, trained staff members are available to answer questions, make appropriate referrals, and assist residents with personal or academic problems.

Freshmen students who receive a scholarship from UAB are required to live on campus their freshman year. Freshmen must share a suite/apartment with a roommate. Roommate requests must be mutual in order to be considered, and applications for Student Housing should be completed at approximately the same time. Although every effort will be made to place applicants with the roommate of their choice, the Department of Student Housing and Residential Life cannot guarantee roommate requests and reserves the right to assign an applicant to any available space.

Current housing room fee rates are available online at https://www.uab.edu/housing and from the Department of Student Housing and Residential Life. Rates include utilities and cable television in all residence halls, and Wi-Fi and high speed internet connections (ResNet) in all residence halls. Telephone service is available under separate contract through UAB Communications.

Since housing at UAB is limited, students should apply as early as possible, particularly if on campus housing is desired for the fall semester. Submitting a Housing Application does not guarantee a space for fall. Every effort will be made to inform applicants of availability. Application should be completed on-line at https://www.uab.edu/housing. Questions may be directed to studenthousing@uab.edu or by telephone at (205) 934-2092. For first time applicants a $25 non-refundable application fee is due along with a $250 prepayment of the room fees for the fall term. Returning residents are also required to submit a $250 prepayment at the time of application. Prepayments will be applied towards the fall housing balance owed and are refundable through June 1. Applicants will also electronically sign a Student Housing Contract at the time of application and prepayment. All Student Housing rooms are assigned on a first come, first served basis.

University Writing Center

Dedicated to helping students improve those critical writing and communication skills, the Writing Center assists students across all UAB disciplines at all levels, from freshmen to dissertators. Located on the first floor of Sterne Library, the center offers one-on-one and group tutoring sessions. Making an appointment is recommended, though walk-ins are welcomed. Additional resources through the center include computer stations, small-group workrooms, and a large classroom for writing workshops.

One Stop

What if you could get answers to your questions about your student account, financial aid and registration all in one place? Stop running from office to office and make the One Stop your first and possibly your only stop! If we can't help you on the spot, we'll do the leg-work for you or connect you to the appropriate resource.

Contact us by email, phone, or in person.
One Stop Student Services, Residence Life Center of Blazer Hall, 920 16th Street South
onestop@uab.edu (205) 934-4300, 855-UAB-1STP (822-1787)
8:00 am - 5:00 pm, Monday - Thursday
9:00 am - 5:00 pm, Friday

Information Center

Information regarding programs, services, and activities at UAB is available at the UAB Information Center. Referrals to the appropriate department, office, or person may be made for more specific information. The Information Center is located in the main lobby of the Residence Life Center of Blazer Hall, 920 16th Street South. For additional information, call (205) 934-8000, or see the Web page at https://www.uab.edu/students/services/item/1021-info-center

UAB Transfer Center (http://www.uab.edu/students/transfer-center)

The UAB Transfer Center assists transfer students throughout the transfer process, from admissions to enrollment. Transfer Center staff evaluate coursework from other colleges and universities, but students can also use the Transfer Equivalency web resource at http://www.uab.edu/students/transfer-center/credit-equivalencies to determine how courses may transfer to UAB. For more information, email TransferCenter@uab.edu
ONE Card

The UAB ONE Card serves as the official student ID and offers access to a variety of services and resources on campus. Students use their ONE Card to enter residence halls and the Campus Recreation Center, attend UAB athletic and cultural events and check out materials from UAB libraries. With their ONE Card, students can enjoy discounts on software purchases at the Barnes & Noble UAB Bookstore and tickets to a variety of on and off-campus events through the UAB ticket office. The ONE Card also functions as a debit card, allowing students a convenient and secure way to pay for goods and services at a variety of on campus and local area merchant locations.

General information about the UAB ONE Card, including a list of carding locations, is available at www.uab.edu/onecard. Note: A photo ID is required to have your initial ONE Card made.

Information about services available to students through their ONE Card is available at www.uab.edu/campuscard. Questions can be directed to CampusCard staff at campuscard@uab.edu or (205) 996-6273.

Career & Professional Development Services

UAB Career & Professional Development Services exists to engage students in the career development process of exploring career options, gaining experience in a chosen field, preparing for the job search, and succeeding in their career goals. Our services begin the moment students are admitted to UAB and extend to alumni status. Career & Professional Development Services’ offers the following resources and programs to successfully prepare you to enter the competitive job market or graduate school:

- Career Consulting
- Career Action Plan
- Job Listings & On-Campus Interviews
- Career Assessments
- Career Fairs, Seminars & Workshops
- Experiential Education (co-op, internships, mentoring, job shadowing & volunteering)
- Career Management Courses

Managing your career is a lifelong, exciting process you need to begin NOW! Please visit us at the main office at the 936 Building, 936 19th Street South, or the four satellite offices in the School of Business, Engineering, Health Professions, and Public Health or visit us online at https://www.uab.edu/careerservices/

Explore ~ Experience ~ Prepare ~ Succeed

Disability Support Services

Disability Support Services (DSS), located in the 9th Avenue Office Building, serves as the central campus resource for students with disabilities. The goal of DSS is to provide a physically and educationally accessible university environment that ensures an individual is viewed on the basis of ability, not disability. DSS staff members work individually with students to determine appropriate accommodations. To be eligible for services, students need to complete an application, submit documentation of their disability and meet with our counseling staff.

For more information, contact Disability Support Services at (205) 934-4205 (voice) or 934-4248 (TTY) or http://www.uab.edu/students/services/disability-support-services E-mail contacts are welcome at dss@uab.edu.

Physical Address
9th Avenue Office Building
1701 9th Avenue South

Mailing Address
OB9A Ste 100
1720 2nd Avenue South
Birmingham, AL 35294

Student Health & Wellness Center

The Student Health & Wellness Center (SHWC) provides a comprehensive and integrated program of services to meet the medical, counseling and wellness needs of UAB’s undergraduate, graduate and professional students. Creating a healthy campus and promoting student wellness are essential to supporting student learning and success. The SHWC is staffed by a group of committed medical providers, counselors, nurses, clinicians, wellness specialists, and support staff who embrace the opportunity to meet your wellness, medical and counseling needs. Those services and resources are available in the new state-of-the-art Student Health & Wellness Center (scheduled to open Fall 2014) located at 1714 9th Ave. South (LRC building), Birmingham, AL 35294-1270.

Blazer Express has convenient drop-off and pick-up locations near the Student Health & Wellness Center. Patient and client parking is available at the South entrance to the building.

Health Services

The SHWC Health Services offer comprehensive primary care services including acute and chronic care, women’s health, mental health evaluation and treatment, immunizations, and treatment of minor emergencies. On-site lab and x-ray services are available. After-hour’s consultation is provided through provider on call coverage, 24 hours a day/7 days a week/365 days a year. To ensure convenience and access, the Health Services operates under an open-access appointment scheduling system. Go to our website for more information or call (205) 934-3581 to schedule an appointment. All currently enrolled UAB undergraduate and graduate students have access to medical office visits, evaluation and development of a treatment plan at no additional cost beyond the payment of regular UAB tuition, regardless of insurance coverage. Diagnostic testing (lab and x-ray) is available on a fee-for-service basis and can be billed to the student’s insurance or, for those without insurance, directly to the student. A more complete listing of no-cost services and those services available, but at additional cost, can be accessed at http://www.uab.edu/studenthealth/health-plan-eligibility/plan-coverage .

Counseling Services

The SHWC Counseling Service assists in developing students’ potential in physical, academic, spiritual, psychosocial, emotional, and vocational areas. In addition to individual and couples counseling, the staff offers a variety of wellness programs, group opportunities, and educational resources. Confidential counseling services are available to all currently enrolled UAB students at no cost. Psychiatric services are also available. For more information call (205) 934-5816. Counseling services are also provided by the UAB Women’s Center.

Women’s Center
The Women’s Center offers personal (non-academic) counseling services to currently enrolled UAB students. The services are confidential and are provided by a Licensed Professional Counselor at no cost. In addition to counseling, the center provides educational outreach on sexual assault, sexual harassment, eating disorders, and other mental health issues that affect women. For further information or to schedule an appointment call (205) 934-6946.

**Student Insurance Coverage (Mandatory and Optional)**

In addition to services provided at the SHWC, select academic programs have a mandatory requirement to have major medical health insurance to ensure coverage for hospital, emergency room, specialty physician care and diagnostic testing. For more information on the mandatory insurance coverage requirement go the SHWC website at http://www.uab.edu/studenthealth/insurance-and-waivers/mandatory-insurance-waivers.

Viva Health offers an optional Student Health Insurance Plan for full-time registered undergraduate students taking a minimum of 12 credit hours and non-health related graduate students taking a minimum of 5 credit hours. The plan may be extended to cover the student’s spouse and dependents for an additional premium. Please visit www.vivaemployer.com (http://www.vivaemployer.com) for more information.

To learn more about services available through the Student Health and Wellness Center, please visit www.uab.edu/studenthealth or contact us at one of the following phone numbers for assistance.

**Appointments:**

Health Services (205) 934-3581

Counseling Services (205) 934-5816

Women’s Center (205) 934-6946

**Office Hours**

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<thead>
<tr>
<th>Day</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Monday - Friday</td>
<td>8:00 a.m. - 12:00 p.m. and 1:00 - 5:00 p.m.</td>
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**Immunizations**

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<th>Day</th>
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<tbody>
<tr>
<td>Monday - Friday</td>
<td>8:00 a.m. - 11:30 a.m. and 1:00 - 4:30 p.m.</td>
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*The Student Health & Wellness Center is closed daily from 12 pm to 1 pm for lunch.*

**International Recruitment and Student Services**

The Office of International Recruitment and Student Services (IRSS) is committed to providing quality services and programs to recruit, retain and support the UAB international community.

IRSS assists with recruitment of international students, assists with international admissions, advises foreign students and visiting international faculty and staff in matters of immigration and federal and state taxation, and provides orientation and support programs to facilitate the transition to the UAB and Birmingham community. IRSS also serves as a collaborative resource to facilitate, promote, and strengthen international understanding on campus and throughout the Birmingham community.

International Recruitment and Student Services also operates the Smolian International House. For additional information, call (205) 934-3328 or visit our Web page at https://uab.edu/students/international.

**Multicultural Scholars Program (MSP)**

The Multicultural Scholars Program (MSP) provides special resources and services to better prepare students for options after graduation from UAB, including admission to graduate and first-professional schools or initial entrance into a competitive job market. This multi-faceted program focuses on academic excellence and social development. The program takes students from the freshman year of college to graduation and beyond, which exemplifies the program’s motto "each one, reach one." All programs and services are designed to help students ease their transition to college, maximize their college experience, achieve their goals, and prepare for the next phase of their lives. For more information, contact the Office of Equity and Diversity, Room 401, Campbell Hall, Telephone (205) 934-8762, electronic mail cscott@uab.edu, or read about our programs and services on the UAB website, http://www.uab.edu/home/, click Current Students, and Services from the top ledger.

**University Academic Success Center**

The University Academic Success Center provides students with the planning, preparation and skills needed for academic success through the following programs.

**Supplemental Instruction**

Supplemental Instruction is an academic support program involving a series of weekly review sessions for students taking historically difficult courses. Sessions are designed to reinforce the content of the course while developing course-specific problem solving skills and test preparation strategies. Attendance in Supplemental Instruction sessions is voluntary and free of charge.

**Study Strategy Sessions**

Designed to help students identify their individual learning style preferences and develop efficient study practices, these sessions are led by trained peer leaders. Additional topics of discussion may include time management, note taking and test preparation. Open to any student with an interest in improving their study practices, these sessions are offered each term and are free of charge.

**Peer Academic Coaching**

Academic Coaches assist students in gaining a better understanding of the learning process and reinforce skills and behaviors necessary for academic success. While study strategy sessions focus on study techniques, academic coaching sessions focus on empowering students to implement those techniques consistently. Topics for exploration may include motivation, self-discipline, and perseverance.

**Peer Mentors**

Peer Mentors are UAB undergraduate students who help and keep College of Arts and Sciences’ first year students connected to the university and supported through their transition to UAB, through their first year experience class.
Tutoring

Available in a variety of disciplines such as the natural sciences, social sciences, business, and foreign languages, tutoring is available by appointment and on a drop-in basis.

For more information or to make an appointment, stop by Room 242 of the Education building, 901 13th Street South, or please call 934-8184. You can also find the Office for Student Academic Success online at: http://www.uab.edu/students/academics/student-success

Parking

All students who desire to park in UAB student parking facilities must purchase a permit from Parking and Transportation Services. Permits can be purchased by the term or for the academic year (September through August). Location and fees vary according to lot. Contact Parking and Transportation Services at (205) 934-3513, for details, or visit online at http://www.uab.edu/parking/.

Both the university and the City of Birmingham issue citations in student lots to vehicles illegally parked or not displaying a proper permit. Students are responsible for paying all fines and fees imposed. If a student is a member of the parking system, any delinquent ticket payments will be added to his or her account in the Student Accounting Office. If a student is not a member of the parking system and accumulates three or more delinquent tickets, the student’s vehicle may be immobilized or impounded at his or her expense.

Handicapped spaces are conveniently located throughout campus. A valid handicap permit must be displayed to park in a handicapped space in addition to the applicable parking permit. All state issued handicap parking permits MUST be registered with the UAB Parking Office in order to park in a restricted UAB lot or deck.

For additional information and a campus parking map, contact:

UAB Parking and Transportation Services
608 Eighth Street South • Telephone (205) 934-3513 • E-mail: uabparking@uab.edu • Website: http://www.uab.edu/parking/

Peer Mentoring Program for First Year Students

The UAB Peer Mentoring Program is designed to keep first year students connected to the university and supported through their transition to UAB during the time immediately following Goin’ Green New Student Orientation through the end of their first semester. The program is a joint initiative of the Office of New Student Orientation and the Office for Student Academic Success.

Placement Test

The UAB Testing Office provides individual placement testing. Group testing is also available at times and locations listed each term in the UAB Class Schedule. For further information, contact the Testing Office, 936 Building, 936 19th Street South (205) 934-3704.

http://www.uab.edu/testing/

Student Academic Success Hotline at (205) 934-6139

The UAB Student Academic Success hotline is a resource for students to help find academic support services. The hotline provides personal assistance for students who are having difficulties but don’t know where to get help.

TRIO Academic Services

Fully funded by the U.S. Department of Education, TRIO Academic Services (Student Support Services) offers assistance to UAB’s degree-seeking undergraduate students who are either first generation college students (neither parent has a bachelor’s degree), are low-income, or have a disability. The program seeks to increase eligible students’ chances of graduating from UAB in four years. Students participate in the program from their entrance to UAB as freshmen or sophomores until graduation.

Intensive services are provided during the freshman and sophomore years; fewer services are provided during the junior and senior years. Services offered include free tutoring from freshman courses through senior courses, workshops to improve study skills, computerized basic skills assistance, computer training and usage, counseling and referral, graduate and professional school admission assistance, and educational and cultural activities. Students also receive a UAB-funded incentive stipend that increases yearly, culminating in $1,000 to participants who enter the project as freshmen and graduate in four years. Students are required to be full time and complete a minimum of 27 semester hours with at least a 2.0 grade point average each year. Required developmental courses are counted in these 27 semester hours. Students must maintain eligibility for financial aid if needed and participate fully in needed program services.

Priority acceptance is given to conditionally admitted freshmen who are attending UAB for the first time during fall semester. Limited space is available for freshmen and sophomores who are already attending UAB. Applications for the program are accepted from April 1 through July 1 of each year. For additional information, contact TRIO Academic Services at http://www.uab.edu/students/services/trio-academic-services

UAB Office for Study Away

UAB Office for Study Away offers opportunities for international study either through UAB or non-UAB programs. Programs through the UAB Office for Study Away include various academic disciplines and their complementary courses abroad, and are offered in partnership with UAB academic departments. Study abroad options include work/study abroad, internships, and direct enrollment; short term, semester, and full-year exchanges; and opportunities in cross-cultural training, service, and international health research. Application requirements, enrollment circumstances, possible credits, and deadlines vary according to the program. Contact the UAB Office for Study Away, (205) 975-6611, for further information concerning various programs, the resource room, references for peer consultation and academic advising, and financial aid applicability and contacts.

The UAB Office for Study Away is located in Heritage Hall, rooms 521 and 523. For further information, visit our web site at http://uab.abroadoffice.net/index.html or http://www.uab.edu/students/academics/study-away
**UAB Testing Office**

The UAB Testing Office provides testing services for UAB students, prospective students, and the community at large. The following tests and/or services are available:

- Admissions examinations for undergraduate and graduate programs
- American College Testing Program (ACT)
- Scholastic Aptitude Test (SAT)
- Miller Analogies Test (MAT) (acceptable to some graduate programs)
- College Level Examination Program (CLEP)—General and Subject Examinations
- Correspondence examination monitoring
- Professional licensing/certification/registration examinations

For further information on any of the above, contact the UAB Testing Office, 936 Building, 936 19th Street South, Telephone (205) 934-3704.

**UAB Ticket Office**

The UAB Ticket Office is an excellent source for acquiring the best seats to campus events, including performances at the Alys Stephens Center, and UAB Blazers Football and Basketball. It also serves as the point-of-purchase for events sponsored by the Department of Student Life and other UAB organizations and off-campus agencies. In addition, the UAB Ticket Office offers discounted tickets for Carmike, Regal Cinemas, Rave Motion Pictures, and to most major theme parks across the southeast, including Six Flags over Georgia, Alabama Adventure and Dollywood. Discounts to the major aquariums in the area are also available including: Georgia Aquarium, Tennessee Aquarium and Ripley’s Aquarium of the Smokies. First-class postage stamps are also available for purchase (UAB internal requisitions are accepted). For additional information, contact the UAB Ticket Office, located inside One Stop Student Services in the Residence Life Center of Blazer Hall, Telephone: (205) 934-8000. Visit our website https://www.uab.edu/students/services/item/846-ticket-office

**Veterans Services**

UAB Veterans Services (UAB-VS) assists veterans, reservists, guardsmen, and dependents of disabled or deceased veterans to access their educational benefits. UAB-VS serves as a liaison between the student and the local and federal agencies, including the State Department of Education, Department of Defense, and the Department of Veterans Affairs. The office staff assist students in applying for educational benefits, securing tutorial assistance and obtaining veterans work-study positions. For further information, contact UAB Veterans Services, Smolian International House, Room 233, 1600 10th Avenue South, Telephone (205) 934-8804 or read about our programs and services at http://www.uab.edu/students/services/veterans

**Women’s Center**

The Women’s Center offers personal (non-academic) counseling services to currently enrolled UAB students. The services are confidential and are provided by a Licensed Professional Counselor at no cost. In addition to counseling, the center provides educational programs on sexual assault, sexual harassment, eating disorders, and other mental health issues that affect women. The Women’s Center supports and encourages women seeking a balanced and meaningful life. For further information, contact:

Women’s Center
Financial Information

Tuition and Fees
Undergraduate Courses
The Detailed Tuition and Fee Schedule is available online https://www.uab.edu/students/current/paying-for-college/detailed-tuition-and-fees

Estimated Tuition and Fees
To ascertain Tuition and Fees Fee Schedule please visit BlazerNET located online at www.uab.edu/blazernet

Deadlines
Student account payment deadlines are available on the Academic Calendar for each term. Fifty percent of your total student account must be paid by the first payment deadline and the entire account balance must be paid in full by the second payment deadline. Payment deadline dates are available on the Academic Calendar located online at http://www.uab.edu/academiccalendar.

Penalties
Students who fail to pay by the deadline are subject to substantial late fees. Students with delinquent accounts will not be allowed to register at UAB, and transcript requests will not be honored until all accounts are paid in full. The list of penalties is available online at http://www.uab.edu/whentopay/penalties.

How to Pay
Payments can be made via the web with a Blazer ID and Password at www.uab.edu/blazernet. For detailed instructions please visit the website http://www.uab.edu/images/stuaff/pdf/Making_a_payment_in_BlazerNET.pdf. The One Stop office also has a drop box where checks can be dropped off. Payments can also be made at Student Accounting Services. All fees are due by the published deadline, as indicated on the UAB Academic Calendar at http://www.uab.edu/academiccalendar. For tuition questions please call Student Accounting Services at (205) 934-3570.

Contact
Student Accounting Services
1700 University Blvd.
LHL Ground Floor G10
Birmingham, AL 35294
(205) 934-3570

Withdrawing from Courses
To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). The withdrawal period ends at approximately 75% of the academic term. Failure to attend class does not constitute a formal drop or withdrawal.

Withdrawal from courses can only be accomplished using official procedures. The official withdrawal must be completed online in BlazerNET or a completed withdrawal form must be submitted to One Stop Student Services. This office will date stamp the form and return a copy. These documents should be retained carefully by the student. The date printed on the receipt is the official date of withdrawal.

In extraordinary circumstances, if it is impossible for the student to withdraw online the student may mail a withdrawal letter to the Office of the Registrar. The official date of withdrawal will be the date the letter is received in this office. If the official date of withdrawal is after the last day to drop without paying, no tuition or fees will be refunded.

For financial aid purposes, the date of last class attendance will be the official date of withdrawal unless otherwise documented. Note that individuals schools may have withdrawal rules in addition to the above.

Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student’s performance prior to withdrawal if the violation is substantiated.

Exceptions
All students are responsible for adhering to UAB’s academic policies, as published in the UAB Undergraduate Catalog. The Provost may make exceptions to policies. Exceptions will only be made in extraordinary circumstances. Only in cases of serious illness, which precludes a student from attending classes, or a call to active military service, can a student qualify under this policy for either administrative or academic withdrawal from courses from that semester. In such instances, students requesting an exception to policy must provide the cause specific documentation in order for the request to be considered.

Requests are evaluated only from written documentation and not through appointments or telephone calls. Information and forms are available online (https://www.uab.edu/students/academics/item/899-exceptions-to-academic-policy). (Please note that grievances of an academic nature are addressed through the Academic Grievance Policy). Requests for exceptions must be submitted at the earliest possible time. Consideration will not be given to any request submitted later than the term immediately following the term for which the exception is being requested. A full reduction in tuition and associated fees will be made for appropriately documented serious illnesses or military service activation, which preclude a student continuing his/her studies at UAB. For students receiving refunds, such refunds will first be applied to any outstanding obligations and to any scholarship, grant, or loan the student has received for that term. A student who is receiving any form of Federal Title IV Financial Aid will be liable for any unearned funds received as determined by the Federal Return of Funds Policy (check with Student Accounting Office for details.).

Failure to adhere to the published drop and withdrawal deadlines (as outlined in the UAB Catalog and the UAB Class Schedule) does not qualify under this policy as an Academic Exception.

Financial Aid to Students
Students should apply for financial aid if they need assistance in paying for the cost of education. Students applying for financial aid should apply for financial aid if they need assistance in paying for the cost of education. Students applying for financial aid should apply for financial aid if they need assistance in paying for the cost of education.
aid are considered for all programs for which they are eligible. Assistance generally takes the form of a combination of grant, loan, and employment. The amount of the award is based on the financial need of the student, taking into consideration the student’s total expenses and the family’s financial circumstances. A nationally recognized method of analysis approved by the federal government is used to determine the family’s ability to pay toward the cost of education.

Applying for Financial Aid

Students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) available online at http://www.fafsa.gov/ in early February. The earliest students can submit the FAFSA is January 1. Instructions and UAB forms are available online at https://www.uab.edu/students/paying-for-college. Since some of the aid programs have limited funding, students are encouraged to submit all required forms to the financial aid office by March 1 for financial aid for the following fall to ensure they receive aid from all programs for which they are eligible. In order to meet the tuition and fee deadlines, completed applications should be submitted no later than 45 days prior to the tuition due date. Students must reapply for financial aid each academic year.

Since procedures and rules are subject to change, students interested in applying for financial aid can receive further information online at www.uab.edu/financialaid.

Contact

Student Financial Aid
finaid@uab.edu
(205)934-8223

Mailing address:

UAB
Student Financial Aid
1720 2nd Avenue South
Birmingham, AL 35294

Financial Aid Programs

Federal Pell Grants
The federal government has allocated funds that currently provide grants up to $5,645 per year for eligible students. All undergraduate students needing financial assistance should apply.

Federal Supplemental Educational Opportunity Grants
Federal Supplemental Educational Opportunity Grants provide assistance for undergraduate students who demonstrate financial need. The maximum annual grant at UAB is $1,500.

Federal College Work-Study Program
Eligible undergraduate and graduate students may work part time and earn money to help pay their educational expenses while attending school. On-campus and off-campus jobs are available in areas related to the student’s educational interests.

Federal Perkins Loan
Perkins loans are available to undergraduate and graduate students on a long-term, low-interest basis and are repayable in monthly installments. The total amount available for a student’s undergraduate study is $27,000; the total amount of loans made to a graduate student for all years, including any loans received as an undergraduate, may not exceed $60,000. The interest rate is five percent, and repayment of principal and interest begins nine months after graduation or withdrawal from school.

Federal Direct Stafford/Ford Loan
The Federal Direct Stafford Loan is a need-based loan for undergraduate students with a fixed rate of 3.86%. Repayment begins six months after the student’s enrollment level drops below half time. Annual loan limits are $3,500 for freshmen, $4,500 for sophomores, $5,500 for juniors and seniors. The aggregate limits are $23,000 for dependent undergraduates and $46,000 for independent undergraduates.

Federal Direct Unsubsidized Stafford/Ford Loan
This is a non-need-based loan with a fixed rate of 3.86% for undergraduate students. Interest must be paid while the student is in school or must be capitalized as agreed upon by the borrower and lender. Repayment of the principal and any capitalized interest begins when the student’s enrollment status drops below half time. The maximum annual loan amount is the Federal Direct Stafford Loan annual limit minus the student’s amount of eligibility for a Federal Direct Stafford Loan.

Additional Federal Direct Unsubsidized Stafford/Ford Loan
Independent students or dependent students whose parents cannot borrow under the Federal Direct PLUS Program may borrow $4,000 as freshmen and sophomores, $5,000 as juniors and seniors

Federal Direct Parent Loan for Undergraduate Students
This is a non-need-based loan with a fixed rate of 6.41%. Repayment of principal and interest begins immediately after the loan has been disbursed. Annual loan limits are the cost of living minus other aid.

Scholarships and Merit-Based Awards

Freshmen
New freshmen are automatically considered for all university-wide academic scholarships once they are admitted to UAB. Merit-based scholarships are awarded on a first-come, first-served basis to eligible entering freshmen. Students who wish to be considered for merit-based scholarships should postmark the undergraduate admission application and all supporting credentials (official transcript and official ACT and/or SAT scores) by December 1 of the senior year in high school (May 1 for out-of-state residents). Admission applications completed after December 1 of the senior year will be considered on a funds-available basis.

Along with scholarships offered by the university, individual schools and departments may award their own scholarships. Students should check with the school in which their major is located for additional scholarship opportunities.
For Alabama Residents who are Freshmen

**UAB Presidential Scholarship:** A limited number of awards which provide full tuition (up to 15 semester hours per term for fall and spring only), required fees, for the entire academic year, and a cumulative GPA of 3.5 or higher. A separate application is required.

**UAB Presidential Recognition Scholarship:** A limited number of awards which provide full tuition (up to 15 semester hours per term for fall and spring only), required fees, an on-campus housing allowance of up to $5,600 each year with an ACT of 33 or higher and a cumulative GPA of 3.5 or higher. A supplemental application is required.

**UAB Provost Scholarship:** $8,000 with an ACT of 33 or higher and a cumulative GPA of 3.5 or higher.

**Golden Excellence Scholarship:** $7,500 with an ACT of 30-32 and a cumulative GPA of 3.5 or higher.

**Collegiate Honors Scholarship:** $5,500 with an ACT of 27-29 and a cumulative GPA of 3.5 or higher or an ACT of 30-36 and a cumulative GPA of 3.0-3.49.

**UAB Breakthrough Scholarship:** $3,000 with an ACT of 24-26 and a cumulative GPA of 3.5 or higher.

**UAB Academic Achievement Scholarship:** $2,000 with an ACT of 20-23 and a cumulative GPA of 3.5 or higher or an ACT of 24-29 and a cumulative GPA of 3.0-3.49.

**Freshman Housing Scholarship:** A limited number of on-campus housing scholarships which provide a one-year award of $2,000. Consideration is based on academic achievement, leadership, service, and extracurricular activities. A separate application is required.

**AP Achievement and Recognition Awards for High School Seniors in the Birmingham City School System:** Up to 20 students will receive an AP Achievement Award, which guarantees that the cost of tuition and required fees (up to 15 semester hours per term for fall and spring only) will be met with gift aid for a total of 4 years (8 academic semesters). The actual value of this award is dependent upon any grants and/or academic scholarships the student has been offered by UAB. Up to 50 students will receive an AP Recognition Award, which will provide a one-time award of $1,000. Qualified applicants must be admitted to UAB by March 1, complete the Free Application for Federal Student Aid (FAFSA) by March 1, complete a minimum of 2 AP courses, earn grades of B or higher in all AP coursework, earn a score of 3 or higher on a minimum of 2 subsequent AP exams (minimum score is not required for the AP Recognition Award), and submit an AP Achievement and Recognition Awards Application by March 1 of their senior year in high school. Applicants must be currently enrolled in a high school in the Birmingham City School System.

**Birmingham City School Scholarship:** Entering freshmen who graduate from a high school in the Birmingham City School System (Carver, Huffman, Jackson-Olin, Parker, Ramsay, Wenonah, or Woodlawn) may receive a four-year scholarship. This award will annually increase in the following manner, providing a total of $10,500 in scholarship funding over a four-year period: $1,500 for your 1st academic year; $2,000 for your 2nd academic year; $3,000 for your 3rd academic year; $4,000 for your 4th academic year. Qualified applicants must be admitted to UAB by May 1 of their senior year in high school and enroll during the fall semester immediately following their high school graduation. A separate scholarship application is not required.

**For Out-of-State Residents who are Freshmen**

**Blazer Elite Scholarship:** $15,000 with an ACT of 30 or higher and a cumulative GPA of 3.5 or higher.

**Blazer Gold Scholarship:** $12,000 with an ACT of 26-29 and a cumulative GPA of 3.5 or higher.

**Blazer Pride Scholarship:** $10,000 with an ACT of 24-25 and a cumulative GPA of 3.5 or higher or an ACT of 26-29 and a cumulative GPA of 3.0-3.49.

**Blazer Distinction Scholarship:** $7,500 with an ACT of 20-23 and a cumulative GPA of 3.5 or higher or an ACT of 24-25 and a cumulative GPA of 3.0-3.49.

**For National Merit Finalists, Achievement Finalists, and Hispanic Recognition Program Scholars**

Students who are recognized as National Merit Finalists, National Achievement Finalists, or National Hispanic Recognition Program Scholars are eligible to receive the UAB Presidential Scholarship, which provides full tuition (up to 15 semester hours per term for fall and spring only), required fees, and an on-campus housing allowance of up to $5,600 each year. They will also receive a one-time $2,500 stipend to be used for experiential learning (Study Away, internships, co-ops, etc.) To obtain this scholarship, National Merit Finalists must name UAB as their first choice with the National Merit Scholarship Corporation (NMSC). National Achievement Finalists and National Hispanic Recognition Program Scholars must fax or mail a copy of their Finalist letter and Finalist certificate to the Coordinator of Undergraduate Scholarships (Mailing address: 1701 BLDG, 1720 2nd Avenue South, Birmingham, AL 35294; Fax number: (205) 975-7114).

**Other Scholarships for Entering Freshmen - No application is required (unless otherwise noted).**

**Birmingham News-Clarence B. Hanson Jr. Scholarship:** This renewable award is reserved for entering freshmen who are residents of the Birmingham Metropolitan Statistical Area. The award is based on financial need and demonstrated leadership qualities.

**Birmingham Racing Commission Scholarship:** This renewable award is reserved for entering freshmen and is based on academic achievement.

**Roberts and Mildred Blount Presidential Endowed Scholarship:** This renewable award is reserved for students who graduate from a high school in Elmore County, Alabama. Up to four scholarships are awarded each year. The amount of the awards may vary.
Charles “Charlie” Campbell Endowed Memorial Scholarship: Preference given to applicants who reside in Bessemer, Alabama.

Martha Corbin Scholarship: Applicants must be entering freshmen with at least an overall GPA of 3.0. Applicants must be residents of Alabama.

S. Richardson Hill Scholarship: This renewable award, valued at $2,000 per year, is reserved for entering freshmen. Selection is based on academic achievement.

HOPE (Helping Other People Excel) Scholarship: This renewable scholarship, based on financial need, is reserved for entering freshmen.

International Baccalaureate Scholarship: Qualified U.S. Citizens and Permanent Residents who are IB Diploma Candidates or IB Diploma Holders may be eligible to receive special scholarship funding. To be considered for this scholarship, students must be admitted to UAB and submit the required supplemental application during their senior year in high school. To view the current award values, deadlines, and the required application, please visit www.uab.edu/ib.

Charles W. Ireland Presidential Honors Scholarship: This renewable award annually provides $12,000 toward tuition costs and a UAB summer research stipend of $1,000. It also provides an on-campus housing allowance of up to $5,600 each year (fall and spring only). Selection is based on high academic achievement, leadership potential, and character. A supplemental application is required.

Jane Knight Lowe Scholarship: These renewable awards are reserved for entering freshmen who are graduates from one of the public or private secondary schools located in Madison County, Alabama. These merit-based awards pay $7,500 per year.

McCallum Presidential Scholarship: This renewable award annually provides $12,000 toward tuition costs and a UAB summer research stipend of $1,000. It also provides an on-campus housing allowance of up to $5,600 each year (fall and spring only). Selection is based on outstanding academic achievement. A supplemental application is required.

Dottie Monroe Presidential Minority Scholarship: This renewable scholarship, valued at $2,500 per year, is for African American students who are entering freshmen.

Virginia and Anna Praytor Scholarship: This scholarship is awarded on an annual basis to entering freshmen who are graduating from a high school in the Birmingham City School System.

Regions Academic Scholarship: This renewable award annually provides $12,500 toward tuition costs and a UAB summer research stipend of $1,000. It also provides an on-campus housing allowance of up to $5,600 each year (fall and spring only). Selection is based on outstanding academic achievement. A supplemental application is required.

W. Ann Reynolds Endowed Presidential Scholarship: Applicants should demonstrate leadership ability and achievement in previous pursuits whether scholastic or extracurricular. First preference will be given to entering first-year students.

George G. Seibels, Jr. Scholarship: This annual award is reserved for entering freshmen. The award is based on leadership potential and interest in civic affairs and public service.

Samuel Ullman Scholarship: This scholarship is awarded on an annual basis to entering freshman.

Raymond Weeks National Veterans Day Scholarship Fund: Applicants must be direct descendants of veterans, must have financial need, and must show academic accomplishments.

The Alliance for LGBT Equality at UAB Scholarship: Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB. First preference will be given to entering first-year students. Selection is based upon academic achievement, financial need, demonstrated service to the lesbian, gay, bisexual, and transgender (LGBT) community, demonstrated leadership skills, and present and future goals. A supplemental application is required.

Mary Elizabeth Adams Endowed Scholarship: An annual award for Alabama residents who self-identify as having type I diabetes. Preference will be given to those students who plan to pursue a degree in the sciences or who have declared a pre-medicine track, with particular preference given to those type 1 diabetics who are accepted into the UAB Early Medical School Acceptance Program. Applicants should demonstrate solid academic promise and demonstrate personal responsibility through work, community, or family activities. A separate application is required.

Transfer Students

Students who wish to be considered for transfer academic scholarships must be admitted to UAB by March 1 for the upcoming summer or fall semester. New students transferring from 2-year community colleges are automatically considered for all university-wide transfer academic scholarships once they are admitted to UAB. All scholarships are awarded on a first-come, first served basis with funds available, and are renewable for a total of two years. Applicants must have a minimum GPA of 3.5 and have earned at least 45 semester hours of academic coursework (60 semester hours upon transfer to UAB). International students, part-time students, and students with previous coursework from another 4-year institution will not be considered.

Along with scholarships offered by the university, individual schools and departments may award their own scholarships. Students should check with the school in which their major is located for additional scholarship opportunities.

Transfer Scholarships

Phi Theta Kappa Scholarship: This two-year scholarship, valued at $3,000 per year, is reserved for transfer students who are members of Phi Theta Kappa and have a transfer GPA of 3.5 or higher. Documentation of PTK membership must be provided to the Undergraduate Admissions Office by the March 1 deadline. (Membership must be noted on the student’s official community college transcript. If not, then the faculty sponsor may submit a letter on school letterhead, verifying the student’s membership.)

Raymond Weeks National Veterans Day Scholarship Fund: Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB. First preference will be given to entering first-year students. Selection is based upon academic achievement, financial need, demonstrated service to the lesbian, gay, bisexual, and transgender (LGBT) community, demonstrated leadership skills, and present and future goals. A supplemental application is required.

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Along with scholarships offered by the university, individual schools and departments may award their own scholarships. Students should check with the school in which their major is located for additional scholarship opportunities.

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Raymond Weeks National Veterans Day Scholarship Fund: Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB. First preference will be given to entering first-year students. Selection is based upon academic achievement, financial need, demonstrated service to the lesbian, gay, bisexual, and transgender (LGBT) community, demonstrated leadership skills, and present and future goals. A supplemental application is required.

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Along with scholarships offered by the university, individual schools and departments may award their own scholarships. Students should check with the school in which their major is located for additional scholarship opportunities.

Transfer Scholarships

Phi Theta Kappa Scholarship: This two-year scholarship, valued at $3,000 per year, is reserved for transfer students who are members of Phi Theta Kappa and have a transfer GPA of 3.5 or higher. Documentation of PTK membership must be provided to the Undergraduate Admissions Office by the March 1 deadline. (Membership must be noted on the student’s official community college transcript. If not, then the faculty sponsor may submit a letter on school letterhead, verifying the student’s membership.)

Raymond Weeks National Veterans Day Scholarship Fund: Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB. First preference will be given to entering first-year students. Selection is based upon academic achievement, financial need, demonstrated service to the lesbian, gay, bisexual, and transgender (LGBT) community, demonstrated leadership skills, and present and future goals. A supplemental application is required.

Mary Elizabeth Adams Endowed Scholarship: An annual award for Alabama residents who self-identify as having type I diabetes. Preference will be given to those students who plan to pursue a degree in the sciences or who have declared a pre-medicine track, with particular preference given to those type 1 diabetics who are accepted into the UAB Early Medical School Acceptance Program. Applicants should demonstrate solid academic promise and demonstrate personal responsibility through work, community, or family activities. A separate application is required.
UAB Transfer Scholarship of Distinction: This two-year scholarship, valued at $1,000 per year, is reserved for transfer students with a transfer GPA of 3.5-3.74, who are not members of Phi Theta Kappa.

Current UAB Students

The university-wide scholarship application for currently enrolled students is available in the Financial Aid Office from October to January of each year. All applications and supporting documentation must be submitted by January 31 for consideration. Most scholarships are awarded in the spring term and go into effect during the following academic year.

Along with scholarships offered by the university, individual schools and departments may award their own scholarships. Students should check with the school in which their major is located for additional scholarship opportunities.

Scholarships for Current UAB Students

Academic Affairs Scholarship: This award is for students who are currently enrolled in a degree-seeking program in the College of Arts and Sciences, Business, Education, or Engineering at UAB. Applicant should have a 3.0 GPA and demonstrate financial need.

African American Faculty Association: Applicant must be an undergraduate student in good standing at UAB and a graduate of a public high school in the Birmingham metropolitan area, who demonstrates solid academic promise. Preference will be given to applicants who are deserving of financial assistance (as determined by the UAB Office of Student Financial Aid) and demonstrate a commitment to public service within the African American communities, either in the Birmingham metropolitan area or in the state of Alabama. The community service should be performed while the student is enrolled at UAB. A minimum 3.0 GPA is required.

Ehney A. Camp Jr., Endowed Scholarship: Applicants may be enrolled in any of UAB’s Schools and must have at least a 3.25 GPA. Applicants should have the desire to be effective citizens as demonstrated by participation and leadership in extracurricular and/or community activities. Applicants must show financial need.

Charles “Charlie” Campbell Endowed Memorial Scholarship: Preference to applicants who reside in Bessemer, Alabama.

Jack Edwards/Alabama Power Foundation Scholarship: This renewable award is reserved for a current UAB student who is a resident of Alabama. Selection is based on academic achievement.

Crawford T. and Virginia Johnson Scholarship: This renewable award is reserved for currently enrolled UAB students from the Birmingham Metropolitan Area.

Virginia and Anna Praytor Scholarship: This scholarship is awarded on an annual basis to entering freshmen and currently enrolled undergraduate students. Applicants must be a graduate of a high school in the Birmingham City School System.

UAB Affinity Cardholders Scholarship: Applicant must have a 2.5 GPA. Applicant must demonstrate active leadership abilities and financial need.

UAB Women’s Club Scholarship: Preference for these awards will be given to female students who are at least 25 years of age and are returning to complete an undergraduate degree. An essay is required.

UAB General Scholarship Endowment: Need-based scholarship for a junior or senior with a 3.0 GPA. Student must demonstrate financial need. Amount of award is based on need.

UAB Honors Scholarship: Two-year scholarships valued at $1,500 per year are available to community college transfer students and current UAB students. High academic achievement is required.

UAB Leadership Council: Scholarships are awarded to currently enrolled UAB students from the Birmingham Metropolitan Area. Students may apply during their sophomore year. The scholarship will be awarded after completion of 60 semester hours.

Samuel Ullman Scholarship: This scholarship is awarded on an annual basis to entering freshmen and currently enrolled undergraduate students.

Joseph F. Volker Scholarship: This scholarship is awarded on an annual basis to sophomores, juniors, seniors, and graduate students. Applicants must have a 3.5 or higher GPA and must have shown leadership abilities during college enrollment, either academic, extracurricular, or job-oriented.

Raymond Weeks National Veterans Day Scholarship Fund: Applicants must be direct descendants of veterans, must have financial need, and must show academic accomplishments.

Nellie Whitworth Flaherty and Lula McCord Whitworth Scholarship: This award is reserved for a deserving female student. Preference will be given to those students who have been, or are currently in, the work force and are returning to school to complete their education on either a part-time or full-time basis.

The Alliance for LGBT Equality at UAB Scholarship: Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB. First preference will be given to entering first-year students. Selection is based upon academic achievement, financial need, demonstrated service to the lesbian, gay, bisexual, and transgender (LGBT) community, demonstrated leadership skills, and present and future goals. A supplemental application is required.

Mary Elizabeth Adams Endowed Scholarship: An annual award for Alabama residents who self-identify as having type 1 diabetes. Preference will be given to those students who plan to pursue a degree in the sciences or who have declared a pre-medicine track, with particular preference given to those type 1 diabetics who are accepted into the UAB Early Medical School Acceptance Program. Applicants should demonstrate solid academic promise and demonstrate personal responsibility through work, community, or family activities. A separate application is required.

Program-Related Scholarships

The following are Honors College and individual University-wide Honors Program-Related Scholarships. Please contact the Honors College or individual program listed for more information on the application process.

Honors College:
Britt and Susan Sexton Endowed Honors Scholarship: Applicants must be in a degree-granting program through the Honors College. Preference given to first year undergraduate students. Applicants should show solid academic promise and have earned a 3.5 grade point average. Applicants should also display a wide variety of artistic, cultural, and extracurricular activities and academic pursuits and have passionately explored these pursuits. Preference will also be given to those with a fervor for community involvement and service-related volunteer activities.

Woman’s Club House of the Third District of the Alabama Federation of Women’s Clubs, Inc., Endowed Honors Scholarship: Applicants must be in a degree-granting program through the Honors College. Preference given to first year, female students. Applicants should show solid academic promise and have earned a 3.5 grade point average. This award is based on merit and need; however, applicants do not have to qualify for federal financial assistance to be considered. Applicants should also display a wide variety of artistic, cultural, and extracurricular activities and academic pursuits and have passionately explored these pursuits. Preference will also be given to those with a fervor for community involvement and service-related volunteer activities.

Edith and Franklyn Zimmerman Endowed Honors Scholarship: Applicants must be in a baccalaureate degree-granting program through the Honors College. Preference given to first year undergraduate students. Applicants should demonstrate solid academic promise and achievement and have earned at least an overall 3.5 (on a 4.0 scale) grade point average in coursework completed prior to the time of application and have earned a score of at least 25 on the ACT or an equivalent score on the SAT. Applicants should also demonstrate leadership ability and achievement in previous pursuits, whether of a scholastic or extracurricular nature.

University Honors Program (UHP):

Boman-Powell Student Travel Award: Established by Daphne and Richard Powell in honor of their mothers to enable students in the University Honors Program to travel to regional and national conferences or to study away. This fund allows UHP students to expand their educational experience through travel that would not otherwise be possible because of financial constraints. There is no formal application form, but any UHP student may apply by contacting the UHP Director and providing documentation of the program/conference and costs associated with participation.

Hess-Abroms Honors Scholarship Endowment: Applicants must be students in the University Honors Program. This four-year scholarship is typically awarded to incoming freshmen accepted to the University Honors Program. Applicants should demonstrate superior academic achievement (as reflected in grades, test scores, and class rank), creativity or talent (as in the sciences, fine arts, leadership, or independent study), strong motivation, exemplary character, and intellectual promise. All applicants for the University Honors Program are encouraged to apply for this scholarship. Applications due mid-February.

Steven C. Smith Discovery Award: Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB and accepted to the University Honors Program. First preference will be given to entering first-year students in the program. Applicants should demonstrate solid academic promise and achievement and have earned at least a 3.0 grade point average in any coursework completed prior to the time of application. The award of this scholarship will be based on both merit and need. Applicants should display interest in a wide variety of artistic, cultural, and extracurricular activities and academic pursuits and must have a passion for exploring these pursuits as avenues of opportunity present themselves. Preference will also be given to applicants with a fervor for community involvement, particularly service-related volunteer activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

William J. Rushton III/Alabama Power Foundation Scholarship Endowment: Applicants must be incoming or current members of the University Honors Program in good standing and be residents of Alabama. This award is based on merit and need. Applicants should have a strong academic background, a strong commitment to academic achievement and extracurricular activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

William M. Spencer III Endowed Honors Scholarship: Applicants must be admitted to or be current members of the University Honors Program. This award is based on merit and need. Applicants should have a strong academic background and a strong commitment to academic achievement and extracurricular activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

Juliet Nunn Pearson Scholarship: Applicants must be entering UAB freshmen admitted to the University Honors Program. Preferences are given to non-traditional students, pre-professional students, and/or minority students. This award is based on merit and need. Applicants should have a strong academic background and a strong commitment to academic achievement and extracurricular activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

Nelson and Maye Hill Honors Fund: Applicant must be a student in the University Honors Program and be accepted to an academic Study Abroad program. This award is based on merit and need. Applicants should have a strong academic background and a strong commitment to the academic and extracurricular activities of the University Honors Program. No application deadline.

Science and Technology Honors Program (STHP):

Wells Fargo Scholars Program: Applicants must be enrolled in the Science and Technology Honors Program and have at least a 3.0 GPA. Preference is given to students with unmet financial need who are from groups underrepresented in their field of study. The award is based on financial need.
merit and need, but applicants do not have to apply for federal financial assistance to be considered. This program awards 4-year scholarships to STHP students with strong academic backgrounds who have a desire to pursue a research career. The award is for underrepresented minorities and females majoring in Chemistry, Engineering, Math, and Computer Science. An application and interview are required for consideration. The application process typically opens in December of each year and closes in January.

Wells Fargo Summer Scholars Academic Enrichment Awards: This program awards scholarships of up to $2,500 to current STHP students. These competitive, merit-based awards are used to support summer research and academic activities. A call for applications for each scholarship opportunity will be announced to all current students each year (typically in late February) along with the application instructions and deadlines (typically mid-March).

Student Academic Engagement

Study Away

Pushpamala Deosthale International Programs Scholarship Endowment: Applicants must be an in-state undergraduate (non-medical) student in their Sophomore, Junior or Senior year who are registered for a UAB Study Away program or an international university exchange program sponsored by UAB and for international students. 3.0 GPA. Preference given to students of Sophomore standing.

John D. Jones Scholarship Endowment: Applicant must be a full-time undergraduate or Co-op program student with Junior or Senior standing and a 3.0 GPA. Transfer students are not eligible. Preference given to students studying abroad.

ROTC

Kelly Ingram VFW Post 668 Distinguished Army ROTC Cadet Scholarship: Non-renewable Award to the most outstanding student selected from among the incoming senior class of ROTC. Applicants must have a 3.0 GPA. Determined by the Army ROTC program and the Office for Student Financial Aid.

College and School Scholarships

College of Arts & Sciences

Art and Art History

Art and Art History

For More Information, Please contact the Department of Art and Art History (205) 934-4941.

Art Department Senior Scholarship: This scholarship is awarded each spring to a rising senior concentrating in studio art chosen by vote of the Department of Art and Art History faculty.

Bernice Cook Thomas Endowed Scholarship: This scholarship is awarded annually to a student majoring in art. Preference shall be given to applicants from underrepresented, low-income, and minority populations.

John Dillon Endowed Scholarship: This scholarship is awarded annually to a student concentrating in studio art and doing significant work in printmaking.

Edith B. Frohock Memorial Endowed Scholarship: This scholarship is awarded annually to a junior concentrating in studio art.

incoming Freshman Art Scholarships: Scholarships awarded annually to new high school graduates planning to major in art. Application requires portfolio.

Klug/Langley Endowed Scholarship: This scholarship is awarded annually to a student concentrating in studio art.

The Betty Loeb Endowed Scholarship: Applicants for the Loeb Endowed Scholarship must be enrolled in the Department of Art and Arts History’s Painting Program and must maintain at least a 3.0 grade point average.

John Schnorrenberg Endowed Scholarship: This scholarship is awarded annually to an undergraduate concentrating in art history.

Ellen Shizuko Takahashi Endowed Scholarship: This scholarship is awarded annually to a student concentrating in studio art and doing significant work in painting.

Dr. Klaus Urban Endowed Scholarship for the Department of Art and Art History: Applicants for the Urban Scholarship must be enrolled in the Department of Art and Art History’s Art History Program, must submit a transcript, portfolio of recent work and one-page artist’s statement with their application and must have at least a 3.0 grade point average.

Marie Weaver and Steve Harvey Endowed Scholarship: This Graphic Design scholarship is awarded annually to a student concentrating in studio art and doing significant work in graphic design.

Biology

For More Information, Please Contact the Department of Biology (205) 934-9685.

Biology Scholars Fellowship: Freshmen who will be enrolled in full-time study as a Biology major at UAB are eligible for consideration for the Biology Scholars award. Awards are highly competitive and will be given to students who have an overall High School GPA of 3.5 or greater, a score of 26 or greater on the ACT, and show leadership skills and academic potential for research. Student finalists will be personally interviewed by representative members of the Biology faculty.

Anne Moreland Cusic Endowed Scholarship: Applicants must be currently enrolled in an undergraduate program in the Department of Biology and have completed BY 123 and BY 124 at UAB. Applicants should demonstrate academic promise and have at least a 3.0 grade point average overall and in their biology courses. Recipients may not apply for scholarship in subsequent years.

Luke Gallagher Memorial Biology Scholarship: Applicants must be currently enrolled as a Biology major and have completed BY 124. Applicants should demonstrate academic promise and have at least a 3.0 grade point average overall and in their biology courses. Preference will be given to applicants who deserve financial assistance. Recipients may not apply for scholarship in subsequent years.

Ken R. Marion Endowed Scholarship: Applications for the Ken R. Marion Endowed Scholarship must be enrolled in the Department of
Biology as an undergraduate student and must maintain at least a 3.0 grade point average.

**Chemistry**

For More Information, Please Contact the Department of Chemistry (205) 975-7821.

**Chemistry Scholars Fellowships:** Qualified incoming freshmen are eligible to apply to be a fellow in the Chemistry Scholars Program. Students must declare Chemistry as their major and have a composite ACT score of 26 or above.

**Communication Studies**

For More Information, Please Contact the Department of Communication Studies (205) 943-3877.

**Mary Anne Amsbary Endowed Award:** This award commemorates outstanding community service for any communication studies student.

**Victoria and Ralph Johnson Endowed Scholarship:** Applicants for the Johnson Endowed Scholarship must be enrolled in the Department of Communication Studies. Preference will be given to first generation college students who are over the age of 22 years of age and who are a current or previous union member or are a spouse or child of a current union member.

**James E. Mills Scholarship:** This scholarship is reserved for the best junior or senior journalism major.

**Dr. William R. Self Memorial Endowed Scholarship:** This scholarship is reserved for a student in Communication Studies.

**Byron St. Dizier Endowed Journalism Scholarship:** This scholarship is reserved for a junior or senior student in print or broadcast journalism.

**Trotter Endowed Scholarship:** This scholarship is reserved for the outstanding Communication Management graduate or undergraduate student.

**John W. Wittig Public Relations Alumni Endowed Presidential Scholarship:** This scholarship is reserved for a junior or senior student majoring in public relations.

**Computer & Information Sciences**

For More Information, Please Contact the Department of Computer and Information Sciences (205) 934-2213.

**Joseph M. Fontana Scholarship Endowment Fund for Computer and Information Sciences:** Applicants must be junior or senior student with a major in the Computer & Information Sciences program, should demonstrate academic promise, and have earned at least a 3.0 GPA in any course work completed prior to application. Additionally, a grade point average of 3.5 must have been achieved in all computer science courses taken up to the time of selection. Preference is given to U.S. citizens and permanent residents. Recipients may apply for renewal for a second year.

**Joyce Iannuzzi Endowed Presidential Scholarship for Computer Science and Technology:** Applicants must be currently enrolled as Computer Science majors at the time of application, should have demonstrated solid academic promise, and have earned a 3.0 overall GPA. Applicants should submit a one page essay, which emphasizes his/her CS academic accomplishments, extra-curricular activities, and career goals. A cover sheet with student name, address, phone, and email must accompany the essay. Applicants can be freshman, sophomore, junior, or senior status.

**English**

For More Information, Please Contact the Department of English (205) 934-4250.

**Barksdale-Maynard Endowed Creative Writing Prize:** Established in honor of Mrs. Maynard completing the first M.A. thesis in Creative Writing at UAB, the Barksdale-Maynard Endowed Creative Writing Prize is given out annually to students who achieve excellence in fiction and poetry in the Department of English.

**English Recruiting Endowed Scholarship:** Established by the English Advisory Committee. Applicants for the English Recruiting Endowed Scholarship must be entering freshmen to UAB and enrolled in the Department of English and must maintain at least a 3.0 grade point average.

**Gloria Goldstein Howton Scholarship Endowment:** This annual award is reserved for undergraduate or graduate students enrolled in the Department of English and interested in pursuing a career in creative writing.

**Phillips Scholarship in English:** This annual award is reserved for junior English majors with a GPA of 3.0 or better. Applications reviewed each spring for coming year.

**Grace Lindsley Waits Scholarship:** This annual award is reserved for junior English majors with a GPA of 3.0 or better. Applications reviewed each spring for coming year.

**Government**

For More Information, Please Contact the Department of Government (205) 934-8674.

**Voytek Zubek Memorial Endowed Scholarship:** This scholarship is open to students currently enrolled in the Department of Government in the College of Arts and Sciences, and they must be Political Science majors. The scholarship recipient must have demonstrated solid academic promise and leadership qualities, and have at least an overall 3.0 grade point average and a 3.3 grade point average in Political Science.

**Justice Sciences**

For More Information, Please Contact the Department of Justice Sciences (205) 934-2069.

**Justice T. Eric Embry Scholarship:** Applicants for this scholarship must be enrolled in, or admitted to, the Master of Science in Forensic Science (MSFS) program and have earned at least a 3.0 GPA in coursework completed prior to the time of application. The number and amount of the awards to be granted from this scholarship fund shall be left to the discretion of the scholarship committee and based on the spendable income earned.

**Pre Law Advisory Board Scholarship:** To be eligible the student must demonstrate solid academic credentials and be involved with the UAB undergraduate Pre-Law Program and/or Mock Trial Team as well as maintain a 3.0 minimum grade point average.
Mathematics

For More Information, Please Contact the Department of Mathematics (205) 934-2154.

Robert M. Kauffman Memorial Endowed Award Fund: This award may be given for cumulative achievement for an individual’s outstanding work. Work done outside of the normal curriculum, such as projects and contributions to seminars, may also be considered. Preference is given to students who demonstrate outstanding ability, potential and interest in pursuing studies in Mathematics.

Travis Wood Memorial Mathematics Scholarship: Applicants must be currently enrolled as Mathematics majors and have completed Calculus III. Candidates must have a 3.0 GPA overall and in their mathematics courses. Preference will be given to full-time undergraduates with dependent(s) who are in need of financial aid. Special consideration is given to mature candidates who have suffered an interruption in their education.

Mathematics Fast Track Scholarships: Students in this program are expected to complete both a BS and Master’s degree in mathematics. Many students do this in four years. Freshmen must be able to start in Calculus I. All students must maintain a 3.5 GPA in mathematics courses. The program provides for office space, support to attend mathematical meetings, participation in a seminar and individual weekly meetings with a faculty member.

O’Neil Endowed Scholarship in Mathematics: Applicants must be currently enrolled, or admitted to, UAB with the declared intent to pursue a major in mathematics. Applicants should demonstrate academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application. Preference will be given to applicants who demonstrate outstanding ability, potential and interest in pursuing studies in mathematics.

James C. and Carol Warner Endowed Scholarship: First preference will be given to entering first-year students. Applicants should demonstrate solid academic promise and have an overall 3.0 GPA completed prior to application.

Music

For More Information, Please Contact the Department of Music (205) 934-7376.

Band Scholarships: Students are required to participate in various ensembles as determined by the director(s). Open to students of all disciplines.

Choral Scholarships: Students are required to participate in various ensembles as determined by the director(s). Open to students of all disciplines.

James Darrell McAnnally Piano Scholarship: For a music major in piano performance.

Music Technology Scholarships: Scholarships are available for students majoring in Music Technology.

Myrtle Jones Steele Piano Scholarship Endowment: For music majors in piano performance.

Alys Robinson Stephens Alumni Scholarship for the Performing Arts: For a music major in any instrument or voice.

Stevie Wonder Music Scholarship Endowment: For music majors in the Music Technology Program.

UAB Music Scholarships: Music majors in any instrument or voice.

Physics

For More Information, Please visit http://www.uab.edu/cas/.

Robert and Edith Bauman Endowed Scholarship in Physics: Applicants must be currently enrolled in, or admitted to, a degree-granting program in the Department of Physics at UAB. Applicants should demonstrate academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application. This is an annual award. Although preference will be given to entering first-year students, recipients of the scholarship may apply for the award in subsequent years.

Psychology

For More Information, Please visit http://www.uab.edu/cas/.

The Passey Psychology Prize Endowment: The Passey Psychology Prize Endowment goes to the student who is judged to have shown the best overall level of accomplishment in psychology – both in terms of course grades and also research and other department activities.

Sociology and Social Work

For More Information, Please Contact the Department of Sociology and Social Work (205) 934-3307.

Ferris S. and Annie Pharo Ritchey Endowed Scholarship in Sociology: Applicants must be deserving undergraduate students in the Department of Sociology. This scholarship was named by Dr. Ferris Ritchey, former Chair and faculty member in the Department of Sociology, and his family in memory of grandparents. The Ferris S. and Annie Pharo Ritchey Endowed Scholarship in Sociology recipient will receive an award of $1,250 ($625 per semester).

Theatre

For More Information, Please Contact the Department of Theatre (205) 934-3236.

Ruby Lloyd Apsey Scholarships: These scholarships are awarded annually and are renewable for promising students majoring in theatre.

Fannie Flagg/Kathy Waites Endowed Scholarship: Applicant must be a deserving student majoring in dance or Theatre Arts at UAB.

David Lloyd Memorial Scholarship Endowment: These scholarships are awarded annually and are renewable for outstanding students majoring in theatre.

William C. Ozier Memorial Scholarship: Applicants must be residents of Alabama. Applicants must show financial need and demonstrate talent in theatre arts.

College Wide Scholarships

For More Information, please visit http://www.uab.edu/cas/.
College of Arts and Sciences Dean's Scholarship: Applicants must be currently enrolled in a degree-granting program in the College of Arts and Sciences. Applicants should demonstrate leadership qualities and academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application. This is an annual award. Recipients of the scholarship may not apply for the award in subsequent years.

Edward H. Atchison Endowment Fund for Scholarships in the Visual and Performing Arts: A four-year scholarship which covers full tuition and fees for an undergraduate student enrolled in a full-time program in the Visual and Performing Arts or for undergraduate students enrolled in the School of Education’s Art Education or Music Education Programs. Students must maintain a 2.5 overall grade point average.

Gladys Davies and George F. Brockman IV Endowed Scholarship: Applicants must be currently enrolled in a degree-granting program in the Departments of Biology, Chemistry, Computer and Information Sciences, Mathematics or Physics. Applicants should demonstrate academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application.

The God at the Speed of Light Endowed Scholarship: Applicants must be currently enrolled, or admitted to, a degree-granting program in the Departments of Biology, Chemistry, Computer and Information Sciences, Mathematics or Physics. Applicants should demonstrate academic promise and have earned at least a 2.5 grade point average in coursework completed prior to application. Preference will be given to applicants who are deserving of financial assistance. This is an annual award and recipients may apply for the award in subsequent years. Applicants must be residents of Alabama.

Lauren McLellan Sanders Endowed Scholarship: The Sanders Scholarship is open to students currently enrolled in the Departments of Government, History, Anthropology, Justice Sciences, Psychology and Sociology and Social Work who have demonstrated solid academic promise and have at least an overall 3.0 grade point average. The Lauren McLellan Sanders Scholarship is an annual award. Recipients of the scholarship may apply for the award in subsequent years.

Jane White Mulkin Endowed Scholarship: This scholarship is awarded annually to a student enrolled in, or admitted to the Departments of Art and Art History, Communication Studies, English, Foreign Languages and Literatures, Music, Philosophy or Theatre. Preference given to applicants in need of financial assistance, particularly non-traditional students who are attending school while working. Applicants must be residents of Alabama.

NASA-Alabama Space Grant Program Scholarships: Scholarships are available to science and engineering students through the NASA-Alabama Space Grant Program. Apply through the Department of Physics. Deadline: April 1.

National Alumni Society Dean’s Scholarship: The National Alumni Society Dean’s Scholarship is a college-wide scholarship and is open to students currently enrolled in or admitted to a degree-granting program in the College of Arts and Sciences who have demonstrated solid academic promise and leadership qualities, and have at least an overall 3.0 grade point average.

Tennant and Susan McWilliams Endowed Scholarship: This fund provides scholarship support to students currently enrolled in the Departments of Government, History and Anthropology, Justice Sciences, Psychology and Sociology and Social Work.

School of Education Scholarships

The Catharine Comer Friend Endowed Scholarship: Preference will be given to students participating in the Urban Education Project who express a desire to teach in an urban setting within Alabama after graduation. Recipients must be currently enrolled in or admitted to degree-granting program in the SOE and have a 3.0 GPA in coursework prior to application. Preference will be given to those deserving financial assistance as determined by the UAB Office of Student Financial Aid.

The Layla Ghayal Education Scholarship: Recipients must be enrolled in or admitted to the Early Childhood Education/Elementary Education Program in the School of Education and must maintain a 3.0 GPA. The Layla Ghayal Education Scholarship is an annual scholarship.

Jack Tribble Scholarship: Recipient must be enrolled in the School of Education and majoring in physical education. The recipient should show financial need as determined by the UAB Office of Student Financial Need.

The Dr. Delbert H. and Dr. Roberta Long School of Education Endowed Scholarship: Recipients must be enrolled or admitted to TEP as an undergraduate or in the Alternative Master Program and maintain a 3.0 GPA. Recipients must have successful work and/ or leadership experience and must demonstrate financial need as determined by the UAB Office of Student Financial Aid.

The Artie Manning Memorial Scholarship: Recipients of the Manning Scholarship must be learning and/or physically challenged. In the absence of such applicants, recipients must be preparing to teach learning and/or physically challenged individuals. Applicants must be accepted into TEP or a degree-seeking education program in the graduate school of the School of Education, must be full-time and have completed 24 hours (undergraduate) or 18 hours (graduate), must show financial need as determined by the UAB Office of Student Financial Aid and must maintain a 3.0 GPA.

The Maryann Manning Endowed Literacy Scholarship: Recipients should be enrolled or admitted to a degree seeking program in UAB School of Education. Preference will be given those involved with quality literacy instruction in pre-K-6 and to students who maintain a 3.0 GPA. Preference will be given to those who show financial need as determined by UAB Office of Student Financial Aid.

The Kathryn Cramer Morgan Memorial Scholarship: Recipients must be admissible or enrolled in the School of Education and majoring in physical education. Preference given to those deserving financial assistance as determined by the UAB Office of Student Financial Need.

The Dr. Eddie P. Ort Endowed Award: Recipients must be a student seeking Ed.S. Certification. Students enrolled in a masters or doctoral program will not be eligible. Recipients must have faculty advisor’s approval to begin Ed.S. Research Project. Preference will be given to students beginning their research project. If no first time research students apply, students already engaged in their research project will be eligible. Preference will be given to applicants with teach or other professional experience.
commensurate the goals of their respective program fields within the Department of Curriculum and Instruction. Additional preference will be given to applicants currently employed in their respective field. Recipients should have a strong academic record of performance as well as evidence of continued professional excellence will be expected.

The Frances M. Owens Endowed Scholarship: Recipients must be currently enrolled in, or admitted to, degree-granting undergraduate program in the UAB School of Education. Preference will be given to entering freshmen student and students with ADD/ADHA registered through UAB Disability Support Service. Recipients must be a full time student and completed 24 and complete 24 successful semester hours annually.

The Joyce G. Sibley Educational Computing Award: Preference is given to students that do not own a computer, maintain a 3.25 GPA and are a junior or senior admitted to TEP of Alternative Masters. The Joyce G. Sibley Educational Computing Award recipient is awarded a laptop computer.

The Mildred, Mack & Blanche Stewart Teacher Education Endowed Scholarship: Recipients must have graduated from the Jefferson County Public School System, or Spain Park, Hewitt-Trussville, or any high school in Bibb, Blount, Cullman, St. Clair, Shelby, Tuscaloosa or Walker Counties. Priority will be given to entering freshman followed by transfer students from community colleges that attended previously mentioned schools. Recipients must maintain a 3.0 GPA and a 22 ACT/1030 SAT score. Applicants must apply and be accepted into TEP during junior year and be seeking certification from the State Department of Education.

The Tevendale Family Scholarship: Recipients of the scholarship must be full time undergraduate students in a degree-granting program in the UAB School of Education. Recipient must maintain a 3.0 GPA in UAB coursework and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to first generation college students and to students who are active in their communities, including the UAB community.

Contact: Kathy Lowe Tubbs • (205) 934-5322 • klowe@uab.edu

School of Business

AMA/UAB Scholarship in Business: A scholarship, valued at $500, is awarded annually, provided the funds are available, to a full-time student enrolled in Industrial Distribution or Marketing within the School of Business. Applicants must have a 2.5/4.0 or higher cumulative GPA and demonstrate solid academic promise. For further information, contact the School of Business at (205) 934-8813.

Accounting Advisory Council Scholarship: A scholarship(s) is awarded to a student with an accounting major with a 3.0/4.0 minimum GPA who is enrolled in or has completed AC300. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

Alabama Society of CPA’s Educational Foundation Scholarship: A scholarship, valued at $1,500, is awarded to full-time accounting major in the School of Business. The recipient must have completed AC 310, have a 3.0/4.0 GPA overall and in all accounting courses completed, and have at least one full year left in school (4th or 5th year). For further information, contact the School of Business at (205) 934-8813.

American Society of Women Accountants: A scholarship, valued at $1,000, is awarded to a senior in accounting with at least a 3.0/4.0 GPA overall and in accounting. The recipient must have completed 60 hours of coursework and have completed AC 300. Need is considered. For information, contact the School of Business at (205) 934-8813.

Association of Certified Fraud Examiners (ACFE) Scholarship: Student must be enrolled or admitted to the School of Business and be an accounting major with an interest in forensic accounting. Recipient must demonstrate involvement in student or community activities and have a minimum 2.5/4.0 GPA. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

Ayers Scholarship in Marketing: A scholarship, valued at $500, is awarded to a student with minimum 3.0/4.0 GPA. Student must be marketing major. Recipient must demonstrate balance in course work, work hours and external commitments. For further information, contact the School of Business at (205) 934-8813.

Earle Baker Memorial Scholarship: One scholarship, valued at $1,500, is awarded to a student majoring in accounting who has completed AC 300 and has earned a minimum 3.0/4.0 GPA in all coursework completed. Financial need is a major factor in the award decision. For further information, contact the School of Business at (205) 934-8813.

Barfield, Murphy, Shank & Smith Scholarship in Accounting: A scholarship, valued at $1,000, is awarded to a senior in Accounting who has an interest in public accounting and who is enrolled in or completed AC300. GPA is important. For further information, contact the School of Business at (205) 934-8813.

Becker CPA Review Scholarship: Free Becker CPA Review Course is awarded to a graduating senior planning a career in public accounting. GPA is important. The Accounting Scholarship Committee must receive a letter of interest by February 1. The number of awards is variable. For further information, contact the School of Business at (205) 934-8813.

Birmingham Chapter of the Alabama Society of CPA’s Scholarship: A scholarship, valued at $2,000, is awarded to a full-time accounting major entering his/her senior year. Recipient must have earned and maintain a 3.0/4.0 GPA in all coursework. For further information, contact the School of Business at (205) 934-8813.

Birmingham Chapter of the IMA Scholarship: Two scholarships, valued at $2,500 each, are awarded to an undergraduate accounting major or a Master of Accounting student. Recipients must have a 3.0/4.0 GPA in their accounting coursework and overall. They should intend to pursue a career in managerial accounting and show an interest in attaining the CMA or CFM designation. For further information contact the School of Business at (205) 934-8813.

John F. Breyer Endowed Scholarship: A scholarship of variable value is awarded to a student enrolled or admitted to The School
Keith Bryant Scholarship: A scholarship of a variable value is awarded to an entering freshman or currently enrolled student with an accounting major or a Master of Accounting student who demonstrates solid academic promise or achievement. For further information, contact the School of Business at (205) 934-8813.

William D. Burg Memorial Scholarship: In May 2006, Dr. William (Bill) Burg was tragically killed in a car accident. Family, students, and friends immediately established a memorial scholarship in his name because of the unique care and mentoring he provided to students. Gifts and pledges were sufficient to create an endowment for an annual scholarship to an IS student who exhibits character and show potential in IS. For further information, contact the School of Business at (205) 934-8813.

CFA Society of Alabama: Annual scholarship(s) is awarded to a senior(s) who wishes to pursue the Chartered Financial Analyst (CFA) designation. All those selected to receive this scholarship receive a waiver of all CFA Level I fees and CFA Society registration fees. The value of the award and number of awards are variable. As of 2007, the value of each scholarship is $760 and up to 10 may be awarded each year. For further information, contact the School of Business at (205) 934-8813.

CISCO Information Systems Endowed Scholarship in Business: Must be currently enrolled in or admitted to the School of Business Department of Informational Systems. Applicants must have a 3.0 GPA. Students must demonstrate a commitment to community service. This scholarship is restricted to minorities (including minority female).

Colonial Properties Trust Business Scholars Practicum: A scholarship, valued at $10,000 plus a practicum, is awarded to a junior or senior majoring in finance. For further information, contact the School of Business at (205) 934-8813.

Colonial Properties Trust Scholarship Program: One annual scholarship, in the form of a rent-free, one-bedroom apartment for a full-time student in the School of Business for an entire calendar year, is awarded to a student with a major in Finance. For further information, contact the School of Business at (205) 934-8812. Deadline: February 1.

Charles & Patsy Collat Endowed Scholarship in Industrial Distribution: An annual scholarship is awarded to an entering freshman, transfer or currently enrolled student who designates Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will also be considered for the scholarship.

Computer Technology Solutions (CTS) Scholarship: Scholarships, valued at $2,500, are awarded to students who major in Information Systems and who demonstrate capabilities and aptitude for systems development and emerging IT issues. CTS is one of Birmingham’s premier consulting firms for IT development and systems development. The number of awards is variable.

For further information, contact the School of Business at (205) 934-8813.

Cooper Industries Industrial Distribution Scholarship: Scholarships of variable amounts are awarded to entering freshmen, transfer or currently enrolled students who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will also be considered for the scholarship.

Culver Scholarship in Economics: A scholarship, valued at $500, is awarded to a student currently enrolled or admitted as an economics major in either the School of Business or the College of Arts and Sciences. Applicants must have a 3.0/4.0 overall GPA and demonstrate financial need. Applicants should also demonstrate leadership and be active in student activities. For further information, contact the School of Business at (205) 934-8813.

Tommie G. Cummings Endowed Scholarship in Accounting: A scholarship of variable value is awarded to an entering freshman or currently enrolled student or MAC student who demonstrates solid academic performance or achievement. For further information, contact the School of Business at (205) 934-8813.

T Kevin Dunnigan Endowed Scholarship in Industrial Distribution: Awarded based on Financial Need.

Economagic Scholarship in Economics: A scholarship, valued at $500, is awarded to a currently enrolled or admitted student majoring in Economics in the School of Business or the College of Arts & Sciences. Applicants must have a 3.0/4.0 or higher overall GPA. For further information, contact the School of Business at (205) 934-8813. Deadline: February 1.

El Paso Corporation Diversity Accounting Scholarship: A scholarship, valued at $3,500, is awarded to a minority accounting undergraduate, graduate, or equivalent student. Recipient must have and maintain a 3.0/4.0 GPA and have a year of coursework remaining. For further information, contact the School of Business at (205) 934-8813.

Ernst and Young/John L. Rhoads Scholarship in Accounting: Two scholarships, of variable value, are awarded to either undergraduate accounting majors entering their senior year or accounting equivalent majors. The recipients must have a minimum 3.25/4.0 accounting GPA and minimum 3.0/4.0 overall GPA. Must be involved in professional and other activities and have an interest in public accounting. Equivalent majors must have completed AC 310. For further information, contact the School of Business at (205) 934-8813.

Faculty Scholarships in Management: A scholarship, valued at $500, is awarded to a student majoring in Management. The recipient must have at least a 3.25/4.0 GPA overall and have taken between 60-90 semester hours of coursework. Previous recipients are not eligible to reapply. For further information, contact the School of Business at (205) 934-8813.

Fetherston Scholarship in Finance: A scholarship, valued at $1,500, is awarded to a currently enrolled or admitted finance
major. The recipient must have at least a 3.0/4.0 GPA, demonstrate leadership, and be active in student activities. For further information, contact the School of Business at (205) 934-8813.

Roy S. Fogas Memorial Scholarship: At least one scholarship, valued at $1,000, is awarded annually to a currently enrolled UAB School of Business student entering his/her junior or senior year. Selection is based upon academic promise, leadership potential and financial need. Award is renewable as long as the recipient maintains a minimum overall GPA of 3.0/4.0 and an average 3.0/4.0 in his or her major. Number of awards is variable. For further information, contact the School of Business at (205) 934-8813.

Katherine Bridges Freeland Endowed Scholarship: A variable value scholarship is awarded to student enrolled or admitted to UAB. Recipient must have a major in FN or IS with a 3.0/4.0 or better GPA. Low income or minority given priority. For further information, contact the School of Business at (205) 934-8813.

Edward M. Friend III School of Business Endowed Scholarship: A variable value scholarship is awarded to a new or currently enrolled student in the School of Business. Applicants must have a 3.0/4.0 overall GPA. For further information, contact the School of Business at (205) 934-8813.

A.G. Gaston Endowed Memorial Scholarship: A scholarship is awarded to an African American student enrolling as a freshman or currently enrolled in the UAB School of Business. Recipient is eligible to re-apply in following years with total awards limited to no more than four years. Financial need and superior academic achievement are considered. For further information, contact the School of Business at (205) 934-8813.

GE Industrial Distribution Endowed Scholarship: Scholarship(s) is awarded to an entering freshman with an Industrial Distribution major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will also be considered for the scholarship. Recipients may re-apply in following years but will be limited to four academic years. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 975-5810 or (205) 934-8813.

Green and Gold Student Managed Investment Fund Scholarship: These scholarships are funded by earnings from the Green and Gold Student Managed Investment Fund and vary in amount according to fund performance. The scholarships are awarded to those students involved in the Green and Gold fund. For further information, contact the School of Business at (205) 934-8813.

Hackney Family Endowed Scholarship in Business: Preference given to entering freshman who demonstrate solid academic promise and have at least a 3.0 overall GPA.

Tommy and Anne Hagwood Endowed Scholarship in Commercial Real Estate: Must be a junior or senior currently enrolled or admitted to the UAB School of Business Finance Department with plans to pursue a career in commercial real estate. Must have a 3.25 GPA. Must also demonstrate a commitment to community service and exhibit outstanding involvement in extracurricular activities.

Robert E. and Diane M. Holmes Endowed Scholarship: A variable value scholarship is awarded to a new or currently enrolled student in the School of Business. Applicants must have a 3.0/4.0 overall GPA. For further information, contact the School of Business at (205) 934-8813.

Horton, Lee, Burnett, Peacock, Cleveland and Grainger Scholarship: A scholarship, valued at $1000, is awarded to a junior, senior or graduate student majoring in Accounting. Must have a 3.0/4.0 minimum GPA and demonstrate solid academic promise. For further information, contact the School of Business at (205) 934-8813.

Information Systems Advisory Scholarship: Council scholarships of variable amounts are awarded to entering freshmen, currently enrolled, or transfer students in the School of Business who are interested in the field of information systems. For further information, contact the School of Business at (205) 934-8813.

Institute of Internal Auditors/Debbie Tanju/UAB Scholarship: One scholarship, valued at $1,500, is awarded to an accounting major with an interest in internal auditing. GPA is important. For further information, contact the School of Business at (205) 934-8813.

Jackson Endowed Scholarship in Industrial Distribution: Scholarship(s) is awarded to a transfer or currently enrolled student majoring in Industrial Distribution. The recipient must complete a minimum of 24 hours during the academic year and maintain a 3.0/4.0 GPA. The recipient must show active participation in extracurricular and/or community service activities. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 975-5810 or (205) 934-8813.

Victoria A. & Ralph A. Johnson Endowed Scholarship: A scholarship, valued at $1,000, is awarded to a student pursuing a degree within the School of Business or in the Department of Communication Studies. Applicants must have a 3.0/4.0 overall GPA. Preference is given to applicants that are first generation college students over 22 years of age, who are currently or were previously union members or to a spouse or child of a current union member. The student must also demonstrate a commitment to education and evidence of previous success or project completion. For further information, contact the School of Business at (205) 934-8813.

Journeyman Student Scholarship in Business: A variable value scholarship is awarded to a junior or rising senior with a business major and a 3.0/4.0 or better GPA. Student must be enrolled full time and show leadership in business. The scholarship will complete one year at UAB. For further information, contact the School of Business at (205) 934-8813.

KPMG Scholarship: A scholarship, valued at $1000, is awarded to a junior or senior majoring in Accounting. Student must demonstrate solid academic promise and have earned a 3.0/4.0 or better GPA. For further information, contact the School of Business at (205) 934-8813.
L. Paul Kassouf & Co. Endowed Scholarship: Two scholarships with variable values are awarded to rising seniors in accounting. Recipients must earn a minimum of 27 semester hours in the academic year, have completed AC 300 and have demonstrated professional awareness and involvement. Recipients must have a minimum overall and accounting 3.0/4.0 GPA. Need is considered if there are equally deserving students. For further information, contact the School of Business at (205) 934-8813.

L. Paul Kassouf Forensic Accounting Scholarship: A scholarship of variable value is awarded to a junior or senior accounting major in the School of Business with an interest in forensic accounting. Recipient must have a minimum 3.0/4.0 GPA. Need is considered if there are equally deserving students. For further information, contact the School of Business at (205) 934-8813.

Debra Linton Scholarship: A scholarship, valued at $2,500, is awarded to an entering freshman, currently enrolled student, or transfer student majoring in accounting with an overall GPA of 3.0/4.0. For further information, contact the School of Business at (205) 934-8813.

MBA Alumni Association Graduate Support Fund: A scholarship of variable value is awarded to a student pursing an MBA with at least a 3.5/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

J. Stanley Mackin Scholarship in Finance: Scholarships with variable values are awarded to finance majors within the School of Business. The recipients must have a 2.5/4.0 or higher overall GPA and must demonstrate financial need. Recipients must be involved in student activities, show leadership potential and display excellent interpersonal and social skills. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

David E. Mackle Sr. Endowed Memorial Scholarship in Accounting: A scholarship of variable value is awarded to a currently enrolled or entering freshman accounting major. The recipient should demonstrate solid academic promise or achievement. For further information, contact the School of Business at (205) 934-8813.

Katherine L. McCari Maisel Memorial Scholarship: A scholarship of variable value is awarded to a senior student majoring in Accounting or Information Systems (with an interest in auditing or computer auditing). Applicants must have a 3.0/4.0 GPA in any completed coursework and demonstrate strong leadership skills and human management skills. It is preferred that accounting majors have completed AC 300, and all applicants must be courageous and positive in their attitude toward life. For further information, contact the School of Business at (205) 934-8813.

Marshall Endowed Scholarship: A variable value scholarship for four years is awarded to an entering freshman who intends to pursue a degree from the UAB School of Business. Applicants must earn 27 hours and maintain a minimum 3.0/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

NABA/Murat Tanju Scholarship: A scholarship, valued at $1,000, is awarded to an accounting major who is a member of NABA. For further information, contact the School of Business at (205) 934-8813.

NABA President’s Scholarship: A scholarship, valued at $500, is awarded to the NABA President. For further information, contact the School of Business at (205) 934-8813.

M. Gene Newport Business Scholarship Endowment: A scholarship, valued at $1,000, is awarded to a regular, full-time entering freshman or transfer student in the School of Business for one academic year and is renewable for up to three consecutive years. The recipient must complete a minimum of 27 hours in one academic year and maintain a 3.0/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

Opportunities for School of Business Scholarship: Twenty (20) renewable four year scholarships, valued at $5000 each, are available to freshmen and transfer students. Entering freshmen, who have selected a major in the School of Business, must have a minimum GPA of 3.25/4.0 and at least a 24 ACT score. Transfer students, who have selected a major in the School of Business, must have a minimum GPA of 3.0/4.0 in all college courses and have completed at least 24 semester hours of college credit. Preference will be given to students who bring diversity to the School of Business student body. For further information, contact the School of Business at (205)/934-8813.

OSRAM Sylvania Scholarship: Scholarship(s) is awarded to an entering freshman or currently enrolled student with an Industrial Distribution major. High school GPA, ACT, or SAT scores, participation in extracurricular activities and career goals will be considered. Currently enrolled ID students must maintain a 3.0/4.0 GPA, be committed to the degree requirements of the ID program and participate in community service. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 975-5810.

Pearce, Bevill, Leesburg & Moore Scholarship: A scholarship, valued at $2,000, is awarded to either an undergraduate accounting major entering his/her senior year, an accounting equivalent major, or a Master of Accounting student. Recipient must have a minimum 3.25/4.0 accounting GPA, have completed AC 310, and be actively involved in at least one professional organization. Need is considered if there are equally deserving students. For further information, contact the School of Business at (205) 934-8813.

Pearce, Bevill, Leesburg & Moore/AL Society of CPA’s Minority Scholarship: A scholarship, valued at $1,500, is awarded to a minority accounting major in the School of Business. The recipient must be a full-time student, must have completed AC 310, have a 3.0/4.0 GPA overall and in all accounting courses completed, and have at least one full year left in school (4th or 5th year). For further information, contact the School of Business at (205) 934-8813.

Pizitz Endowed Scholarship: Scholarships, valued at $2,500 for four years, are awarded to at least one entering freshman that intends to pursue a degree in the UAB School of Business, earns at least 27 hours per academic year and maintains a 3.0/4.0 GPA. Selection is based on grades, ACT or SAT scores, extracurricular activities and career goals. The number of awards is variable. For further information, contact the School of Business at (205) 934-8813.
Ollie S. Powers Endowed Scholarship in Accounting: A scholarship of a variable amount is awarded to an entering freshman or currently enrolled student or MAC student with an accounting major in the School of Business who demonstrates solid academic promise or achievement. For further information, contact the School of Business at (205) 934-8813.

Powers Scholarship in Marketing: One annual scholarship is awarded for $500 to a currently enrolled or admitted Marketing major in the UAB School of Business. Applicants must show academic promise, have a 3.0 GPA in all course work, and be active in student activities. Previous recipients are not eligible to reapply.

PricewaterhouseCoopers Scholarship/Jimmy Bent Memorial Scholarship: A scholarship of variable value is awarded to a currently enrolled student with an accounting major or a Master of Accounting student. Recipient must have and maintain a 3.0/4.0 GPA and preferably have completed AC 300. For further information, contact the School of Business at (205) 934-8813.

Project Management Institute Scholarship: The Birmingham Chapter of PMI provides scholarships to students majoring in IS and who demonstrate skills and abilities in project management. The funds are generated through the UAB IS/PMI Project Management Certificate Program, which is periodically offered to the public. For further information, contact the School of Business at (205) 934-8813.

Protective Life Corporation/NABA Scholarship: A scholarship, valued at $1,500, is awarded annually to an undergraduate accounting major at any level in the School of Business with a minimum 3.0/4.0 GPA in his/her accounting coursework. The recipient must have completed at least one semester at UAB prior to receiving the scholarship and be an active member and heavily involved in the UAB student chapter of the National Association of Black Accountants. The recipient will be eligible to intern at Protective Life Corporation based on availability of an opportunity and the company interview process. For further information, contact the School of Business at (205) 934-8813.

Protective Life Corporation Information Systems Scholarship: A scholarship, valued at $2,500, is awarded to student with an information systems major in School of Business with a minimum 2.5/4.0 GPA. Must be a junior or senior. Internship is encouraged. Low income and minority encouraged to apply/given priority. For further information, contact the School of Business at (205) 934-8813.

Regions Bank Endowed Scholarship in Business: Scholarships are awarded to students currently enrolled as finance majors in the School of Business. Selection is based upon academic promise, leadership potential, merit and high moral character. Applicants must have and maintain a 3.0/4.0 GPA. Recipients are eligible to reapply in subsequent years as long as they continue to meet the requirements. The value of the award and the number of awards are variable. For further information, contact the School of Business at 934-8813.

Regions IS Scholars Practicum: A scholarship, valued at $4,000 plus $18,000 for an on-site practicum, is awarded to a student with information systems major in the School of Business. Must be a junior or senior with a 3.0/4.0 GPA or better. For further information, contact the School of Business at (205) 934-8813.

Robert M. and John L. Rhoads Accounting Scholarship: Scholarships of variable value are awarded to rising seniors majoring in accounting. Recipients must have at least a 3.25/4.0 accounting GPA and a minimum 3.0/4.0 overall GPA. Financial need, extracurricular, civic and professional activities will be considered. The recipient must have completed AC 310. For further information, contact the School of Business at (205) 934-8813.

Rime Endowed Scholarship: A scholarship, valued at $2,500 for four years, is awarded to an entering freshman who intends to pursue a degree in the UAB School of Business. Recipient must earn at least 27 hours per academic year and maintain a 3.0/4.0 GPA. Selection is based upon grades, ACT or SAT scores, extracurricular activities and career goals. For further information, contact the School of Business at (205) 934-8813.

Joe and Louise Robertson Scholarship: A scholarship, valued at $2,000, is awarded to a senior or graduate student with a 3.0/4.0 or above GPA. Student must be majoring in Accounting. For further information, contact the School of Business at (205) 934-8813.

Harvey C. Smith Scholarship in Marketing, presented by the AMA, BI Chapter: A scholarship, valued at $500, is awarded to a junior or senior level student with a designated major in Marketing. Recipient must have a 3.2/4.0 overall GPA. Leadership and membership in the UAB chapter of AMA is considered.

Society for Information Management (SIM) Scholarship: Scholarships are awarded to entering freshmen, currently enrolled students, or transfer students in the School of Business with an interest in information systems as a major. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

South Birmingham Chapter of Institute of Management Accountants Scholarship: A scholarship valued at $1,000 is awarded to an undergraduate student majoring in accounting with an interest in managerial accounting or financial management. A minimum 3.0/4.0 GPA is required. For further information, contact the School of Business at (205) 934-8813.

Southern Pulp and Paper Industry Labor Management Endowed Scholarship (SPPLMC): A scholarship of variable value is awarded to an undergraduate student with a 3.0/4.0 GPA. Preference will be given to Human Resource Management majors and students who have worked in the paper industry or who have a parent or guardian who has worked in a primary mill within the paper industry. For further information, contact the School of Business at 934-8813.

Bernard S. Steiner Jr. Endowed Memorial Scholarship: Scholarships of variable value are awarded to students enrolled in degree-granting programs in the School of Business. Accounting major is preferred, although the scholarships may be awarded to finance, economics and information systems majors also. Minimum
3.0/4.0 GPA required. For further information, contact the School of Business at (205) 934-8813.

**School of Engineering Scholarship Awards**

Scholarship offers. Support for scholarships is provided by Alabama System Scholarship in Finance: A scholarship valued at $1000 is awarded to a junior or senior majoring in finance with a 3.0 overall GPA.

**Scholarship in Finance**: A scholarship valued at $1000 is awarded to a junior or senior majoring in finance with a 3.0 overall GPA.

**UA System Scholarship in Finance**: A scholarship valued at $1000 is awarded to a junior or senior majoring in finance with a 3.0 overall GPA.

**University of Alabama System Scholarship in Finance**: A scholarship valued at $1000 is awarded to a junior or senior majoring in finance with a 3.0 overall GPA.

**UAB Accounting Alumni Scholarship**: Scholarships of variable value are awarded to accounting undergraduate students, equivalent majors, and Master of Accounting students. Recipients are expected to have and maintain a 3.0/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

**Economics Scholarship**: A scholarship valued at $1000 is awarded to a junior or senior majoring in economics. Recipients are expected to have and maintain a 3.0/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

**Juanita and William H. Van Matre Endowed Scholarship**: $1000 is awarded to at least one entering freshman or transferring junior college student who intends to pursue a degree in the UAB School of Business. The recipient is preferred to be from a rural area and have good character. They must earn at least 27 hours per academic year and maintain a 3.0 GPA. Recipients are chosen based upon academic promise and need.

**David J. Vanzant Scholarship in Finance**: $250 is awarded to a UAB School of Business student majoring in Finance. Applicants must have completed 12 hours in-residence, have a minimum 3.0 GPA on all completed coursework, have a proven record of community service, and submit a 200-250 word essay on how he/she plans to use a college education to further benefit his/her community.

**Warren, Averett, Kimbrough & Marino Scholarship**: A scholarship, valued at $1,500, is awarded annually to a senior accounting major or Master of Accounting student in the School of Business with a minimum 3.0/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

**Young Men's Business Club Scholarship**: At least one scholarship valued at $2,000 is awarded annually to a currently full time enrolled UAB student in the School of Business who will be entering their junior or senior year. Selection is based on high academic standing, financial need, and community service.

**School of Engineering**

Entering freshmen in the School of Engineering are automatically considered for all School-wide academic scholarships after being accepted to UAB. The admissions application to the University serves as the application for engineering scholarships. No additional scholarship application materials are required. Students who wish to be considered for engineering scholarships should be admitted to the University no later than December 1 of their senior year.

All scholarships are merit based, and most are renewable for a total of four years. School of Engineering Scholarship Awards range from $1,000 to $7,500 per year and may be combined with other scholarship offers. Support for scholarships is provided by Alabama Power Foundation, American Cast Iron Pipe Co., BE&K, Francis J. Dupuis Endowed Fund, El Paso Energy, Jay and Renitta Goldman Scholarship Fund, Hack Sain Scholarship, LYBD, Clayton V. Reuse/Birmingham ASHRAE Endowed Fund, Southern Company Services, Thompson Tractor, and Vulcan Materials.

A limited number of need-based scholarships are available for students transferring to UAB and majoring in engineering. These scholarships are provided through the National Science Foundation.

**School of Health Professions**

**Dean's Merit Scholarship**: These scholarships are used to recruit or retain outstanding students enrolled in SHP academic programs. Selection is based upon academic achievement, including but not limited to, grade point average and standardized test scores. Selection of awardees is made by each SHP academic program.

**Dean's Diversity Scholarship**: These scholarships are used to recruit or retain students from under-represented groups who will enhance the diversity of SHP academic programs, and consequently the diversity of the health professions workforce. Recipients must meet the University’s definition of under-represented groups. Selection of awardees is made by each SHP baccalaureate and master’s degree program.

**SHP Scholarship**: These scholarships are funded through a combination of allocated budget monies from the Dean and proceeds from the SHP Endowed Scholarship, which was established in 1988 through gifts from faculty, staff and friends of the School. These scholarships are used to recruit or retain students who will enhance the diversity of SHP programs or who have outstanding academic credentials including but not limited to grade point average and standardized test scores. Selection of awardees is made by the SHP Scholarship Committee; applications are submitted by SHP program directors on behalf of qualified students. The number and amount of awards are left to the discretion of the Scholarship Committee based upon available funds.

**Lettie Pate Whitehead Foundation Scholarship**: These scholarships are made possible by an annual grant from the Lettie Pate Whitehead Foundation, based in Atlanta, Georgia. The Whitehead family was the first to secure an exclusive contract to bottle and sell Coca-Cola throughout most of the United States. Applicants must be young women from the Southeastern states who are pursuing an undergraduate or graduate degree in one of the SHP programs and who demonstrate financial need. Selection is made by the SHP Office of Student Success. For more information contact Student Success at (205) 934-4195 or by email at bharris@uab.edu.

**Ethel M. and Jessie D. Smith Endowed Nursing and Allied Health Scholarship**: This endowment provides scholarships for both the School of Health Professions and the School of Nursing. SHP applicants must be admitted to or enrolled in a SHP baccalaureate program and be a resident of the state of Alabama at the time of enrollment. Selection is made by the SHP Office of Student Success. For more information contact Student Success at (205) 934-4195 or by email at bharris@uab.edu.

**Matthew F. McNulty, Jr., Health Services Emergency Loan**: Students enrolled in the professional phase of programs in the School of Health Professions are eligible to apply for this low-interest loan. The fund was originally established by the University Hospital Auxiliary, and its purpose is to provide support for students needing emergency assistance. The amount of the loan will depend upon the student’s needs. Inquiries should be directed to the Office of Student Success: (205) 934-4195 or bharris@uab.edu.
Patricia Ann Amos Endowed Scholarship (Medical Technology): The Patricia Ann Amos Scholarship endowment was established in 2002 through gifts given by Ms. Amos and other donors. Ms. Amos retired from UAB in 1988 after 28 years of service as a medical technology faculty member, department chair and assistant dean. Applicants must be accepted into the professional phase of the Medical Technology Program and have satisfactory academic performance. Selection is made by a committee comprised of the Medical Technology faculty. The number and amount of the awards given each year is determined by the committee based upon the availability of funds.

Cooperative Clinical Laboratories of Huntsville Endowed Scholarship/Loan (Medical Technology/Clinical Laboratory Sciences): The CCLH Scholarship/Loan Fund endowment was created in 1991 by the Huntsville Cooperative School of Medical Technology. Applicants must be full-time students in the UAB Clinical Laboratory Sciences Programs with preference given to those who reside in northern Alabama or who wish to obtain employment as a clinical laboratory scientist at a Huntsville institution. Scholarship awards are an amount equal to 25% of UAB tuition and fees; loan recipients may receive an amount equal to the total of tuition and fees for the duration of the program. The loan is repaid subsequent to graduation; however recipients who are employed as clinical laboratory scientists for one year at a designated Huntsville institution are forgiven the total. Selection is made by a committee comprised of the CCLH representatives and a UAB Clinical Laboratory Sciences faculty member.

M. May Williams Memorial Endowed Scholarship (Radiography): The M. May Williams endowment was established in 1993 through gifts from colleagues, family and friends in memory of Ms. Williams, who served as a technologist in the Radiology Department of the original Jefferson-Hillman Hospital and started the School of Radiologic Technology in 1944 for the Hospital. Applicants must be admitted to or enrolled in the professional phase of the Radiography program, maintain satisfactory academic progress and demonstrate financial need. Selection of recipients is made by the Radiography program faculty.

Elbert and Panzie Purser Scholarship (Surgical Physician Assistant): The Purser Scholarship was established in 1979 and subsequently endowed in 1983 through a gift from the Elbert H. Purser Trust. Applicants must be admitted to or enrolled in the UAB Surgical Physician Assistant program and must be natives of the state of Alabama. Selection is made by a committee of the Surgical Physician Assistant program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Earl W. Hall Loan (Surgical Physician Assistant): Seniors in the Surgical Physician Assistant Program with emergency financial needs are eligible to apply for this low-interest loan. Inquiries should be directed to the Director, Surgical Physician Assistant Program.

Henry L. Laws Scholarship Loan (Surgical Physician Assistant): Students with financial need who are enrolled in or accepted for enrollment in the Surgical Physician Assistant Program may apply for this loan. Inquiries should be directed to the Director, Surgical Physician Assistant Program.

Alabama HIMS President’s Endowed Award in Health Informatics: The Alabama HIMSS Endowed Award Fund was established in 2004 by a generous gift from the Alabama chapter of the Healthcare Information and Management Systems Society to be awarded annually to recognize and provide financial support to an outstanding senior student enrolled in the UAB Master of Science in Health Informatics program as determined by a committee of the MSHI faculty and the President of Alabama HIMSS or his or her chosen representative.

Alabama Hospital Association Scholarship (Health Administration): This scholarship is sponsored annually by a gift from the Alabama Hospital Association for a student admitted to or enrolled in the UAB Master of Science in Health Administration program, based upon criteria established by the Association. Eligible students are identified by the MSHA program faculty; selection is made by the Alabama Hospital Association leadership in consultation with the faculty.

Robert C. Chapman Endowed Scholarship (Health Administration): The Robert C. Chapman Endowed Scholarship was established in 2003 through a generous gift from Robert C. (Bob) Chapman, an alumnus of the M.S. in Health Administration program and a long-time supporter and preceptor for the program. Applicants must be enrolled in or admitted to the MSHA program, demonstrate solid academic promise, financial need, leadership potential and high ethical standards. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Michael E. Garrigan Endowed Scholarship (Health Administration): The Michael E. Garrigan Endowed Scholarship was established in 2000 by a generous gift from Mike Garrigan, an alumnus of the MSHA program and long-time supporter and preceptor for the program. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

HSA 25th Anniversary Endowed Scholarship (Health Administration): This scholarship endowment was established through generous gifts made by faculty, alumni and friends of the MSHA program given to commemorate the 25th anniversary of the Health Administration program. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Health Services Administration Endowed Scholarship (Health Administration): This scholarship was established in 2000 through the generosity of an anonymous donor. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.
The Richard A. Lind Endowed Scholarship Fund (Health Administration): This scholarship endowment was established in 2000 by a very generous gift from MSHA alumnus and healthcare entrepreneur Michael E. Stephens in honor of his friend and fellow alumnus, Richard A. Lind. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Medical Group Management Association Endowed Scholarship (Health Administration): The MGMA Scholarship Endowment was established in 1987 through gifts from the Medical Group Management Association of Alabama and the MGMA Birmingham Chapter to support students who are committed to entering the profession of medical practice management. Applicants must be residents of the state of Alabama, have completed two terms of study in the MSHA program and demonstrate academic promise as well as an interest in the area of medical group practice management. Selection is made by a committee of the MSHA program faculty in consultation with the immediate past presidents of the Birmingham and Alabama chapters of MGMA; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

J. Kenneth Roan Memorial Endowed Scholarship (Health Administration): This scholarship endowment was established in 1985 in memory of J. Kenneth Roan, a native of Decatur, Alabama and a pioneer in the field of psychiatric care facilities. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Preference is given to students interested in pursuing a career in the administration of mental health facilities. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Scott Braxton Ryland Memorial Endowed Scholarship (Health Administration): The Scott Ryland Memorial Scholarship endowment was established in 2004 through gifts made by family, friends and colleagues of Mr. Ryland, an alumnus of the MSHA program and a student in the Administration-Health Services Ph.D. program at the time of his death at age 33. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Jon E. Vice Scholarship (Health Administration): This scholarship was established in 2005 in honor of MSHA alumnus Jon E. Vice and in recognition of his financial support and volunteer leadership for both the Department of Health Services Administration and the School of Health Professions. The scholarship is funded by a portion of the proceeds from the Health Services Administration 25th Anniversary Scholarship endowment, which was established through a fund-raising drive chaired by Mr. Vice. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Robert J. Zasa Endowed Scholarship (Health Administration): The Robert J. Zasa Scholarship endowment was established in 2000 through a generous gift by Mr. Zasa, an alumnus of the MSHA program who has provided long-time support to the program as a student mentor and guest lecturer. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

The Alabama Power Service Organization/Glenda Harris Scholarship (Dietetic Internship/Nutrition Sciences): This scholarship is sponsored by the Alabama Power Service Organization to honor Glenda Harris and to promote educational opportunities to deserving young adults in the Department of Nutrition Sciences. Selection is made by the Nutrition Sciences faculty; the number and amount of the awards are subject to the availability of funds.

Rebecca L. Bradley Endowed Scholarship (Dietetic Internship): This scholarship endowment was established in 2005 in honor of Rebecca L. Bradley for her many years of dedicated service as a faculty member and director of the UAB Dietetic Internship program, a position she retained until her retirement in 1998. Applicants must be admitted to or enrolled in the UAB Dietetic Internship Program. Selection is made by the Dietetic Intern program faculty; the number and amount of the awards are determined annually by the faculty based upon the availability of funds.

Carol Brewster Craig Endowed Scholarship (Dietetic Internship/Nutrition Sciences): The Carol Brewster Craig Endowed Scholarship was established 1992 by gifts made in honor of Ms. Craig, professor and director of the Division of Human Nutrition and Dietetics until her retirement, to commemorate the occasion of the 25th anniversary of the Dietetic Internship program at UAB. Applicants must be admitted to or enrolled in the professional phase of either the Dietetic Internship or the M.S. Nutrition Sciences degree programs and demonstrate solid academic promise. Selection of the recipients is made by a departmental scholarship committee; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Howerde E. Sauberlich Endowed Award for Excellence in Nutrition Sciences Research: The Sauberlich Award endowment was established in 2003 in memory of Dr. Howerde E. Sauberlich, longtime nutrition sciences faculty member and a pioneer in the study of macro- and micronutrients, through a generous gift from his wife, Irene, along with gifts from other donors. The award is used to recognize and financially support students for superior performance in research of an area of the nutrition sciences. Selection is made by departmental committees for the Clinical Nutrition master’s program and the Nutrition Sciences Ph.D. program; the number and amount of the awards are determined by the committees based upon the availability of funds.

Caroline Amari Endowed Scholarship: The Caroline “Cat” Amari Endowed Scholarship was established in 2006 in honor of Cat Amari for her many years of service as a faculty member,
program director and mentor to many OT students. It is the first endowed scholarship to have been established for Occupational Therapy students at UAB. Selection is made by a committee of the Department of Occupational Therapy faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Elizabeth Davis Scholarship (Occupational Therapy): The Elizabeth Davis Scholarship is made possible by contributions made by family and friends of Ms. Davis in appreciation for care she received from an occupational therapist. Selection is made by a committee of the Department of Occupational Therapy faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Occupational Therapy Memorial Scholarship (Occupational Therapy): The OT Memorial Scholarship is funded through contributions by alumni, faculty and friends of the program wishing to honor their loved ones. Selection is made by a committee of the Department of Occupational Therapy faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Randy Gilner Emergency Loan: This no interest loan may be awarded to students enrolled in the Physical Therapy Division. Inquiries should be directed to the Physical Therapy Division.

HEALTHSOUTH Rehabilitation Corporation Endowed Scholarship (Physical Therapy): This scholarship endowment was established in 1991 by a gift from HealthSouth Rehabilitation Corporation. Applicants must be Alabama residents, must be enrolled in the first professional degree program in Physical Therapy at UAB and should demonstrate solid academic progress. Selection is made by the Department of Physical Therapy Financial Aid Committee; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Shirley Shaddeau Memorial Endowed Scholarship (Physical Therapy): The Shirley Shaddeau Memorial Scholarship endowment was established through a generous gift from Sue Shaddeau to honor the memory of her sister, Shirley Shaddeau, and her dedication to the profession of physical therapy. The fund has received additional contributions from family, alumni and friends. Applicants must be enrolled in the first professional degree program in Physical Therapy, demonstrate solid academic progress, financial need and be of high moral character. Selection is made by the Department of Physical Therapy Financial Aid Committee; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Contact: Katie Adams • katiedav@uab.edu • 966-5469

School of Nursing

The School of Nursing at UAB has an excellent scholarship program in which many students participate. Because of the size of some of these scholarship endowments, the school is able to award multiple students scholarships from the same endowed fund. The scholarship application process is simple. One application is needed to be considered for all undergraduate or graduate scholarships except the Marie L. O’Koren Alumni Association Scholarship, Mable E. Lamb Endowed Nursing Scholarship, Dr. Margaret Millsap Memorial Scholarship, and the Gladys F. Colvin Endowed Scholarship for PhD Study. Please call the School of Nursing Office of Student Affairs at 205-934-5483 or visit the website at: http://www.uab.edu/nursing/home/son-scholarships for complete details regarding eligibility and application deadlines.

The following is a listing of scholarships at the University of Alabama School of Nursing at UAB.

Deans Scholarship: Four scholarships are available per year to undergraduate students. Three of these scholarships are two-year renewable scholarships and one is for one year only. The amount of the scholarship is $1,000 per year. Criteria: a “B” (3.0) average on all collegiate pre-nursing work attempted. For renewal of a two-year scholarship, a student must maintain a 2.5 grade point average on nursing courses. All applicants for admission to study leading to the BSN degree at the School of Nursing are automatically considered for the Dean’s Scholarship.

Jo Ann Barnett Endowed Nursing Scholarship: Established with funds from friends, colleagues and family of the late Jo Ann Barnett (BSN 1987, MSN 1990), this scholarship was created to honor Ms. Barnett’s memory and to benefit students in the School of Nursing. Criteria: admission to or current full-time enrollment in the School of Nursing MSN program, with preference given to those students pursuing a career in neonatal nursing or oncology nursing. Applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Board of Visitors Endowed Scholarship: Established with funds generated by the members of the Board of Visitors of the School of Nursing. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing at UAB, and a cumulative grade point average of at least 3.0 on a 4.0 scale. Preference will be given to those who are residents of Alabama, and who express a desire to live and work in Alabama following graduation.

Board of Visitors Endowed Veterans Nursing Care Scholarship: Established with funds donated by members of the UAB School of Nursing Board of Visitors and attendees of the Board’s MASH 2009 fund-raising event. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing at UAB, a cumulative grade point average of at least 3.0 on a 4.0 scale, and applicants must demonstrate financial need as determined by the UAB Office of Financial Aid. First preference will be given to students who demonstrate an interest in and commitment to providing nursing care for veterans and their families.

Marie Carter Bonner Scholarship: Established by friends and associates, this scholarship is a memorial to Mrs. Bonner, who worked as a nurse at UAB Hospital for more than 20 years and served as Director of Psychiatric Nursing. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing at UAB, and a cumulative grade point average of at least 3.0. Preference will be given to applicants who express an interest in psychiatric-mental health nursing.

Carolyn Farrior Boone Endowed Nursing Scholarship: Established with gifts from Mr. and Mrs. James B. Boone, Jr., of Tuscaloosa, Alabama. Mr. Boone is the chairperson of Boone Newspapers, Inc., and Mrs. Boone is a registered nurse and is a member of the School of Nursing’s Board of Visitors. Criteria: admission to or current full-time enrollment in the School of Nursing.
Applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Rachel Z. Booth Endowed Nursing Scholarship: Established with funds received from the School of Nursing Board of Visitors 2005 “MASH: Make Another Scholarship Happen” fundraising event. Dr. Booth served as the School of Nursing’s third dean from 1987-2005. Criteria: students must be currently enrolled in, or admitted to, a doctoral program in the School of Nursing at UAB, a cumulative grade point average of at least 3.2 on a 4.0 scale, and applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Terri J. Broach Nursing Scholarship: Established by friends and family members as a memorial to the late Terri J. Broach, who was a student at the University of Alabama School of Nursing at UAB. Criteria: must be a resident of the State of Alabama, be admitted to, or enrolled in full-time study leading to the BSN degree in nursing at UAB, and have a cumulative grade point average of 2.5 or above. Preference will be given to those who have an active relationship with a church, synagogue, or other religious institution or order, and those who show financial need as defined by the UAB Financial Aid Office.

The Brock Family Endowed Nursing Scholarship: The Harry B. and Jane H. Brock Foundation has made generous gifts to create an endowed scholarship for the School of Nursing, in recognition of the nursing career of their daughter, Barrett Brock MacKay (MSN 1979), who is a member of the School’s Board of Visitors. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Applicants must have at least an overall 2.8 grade point average on a 4.0 scale at the time of the scholarship application. Preference will be given to applicants that demonstrate financial need as determined by the UAB Office of Financial Aid.

William Groce Campbell Endowed Nursing Scholarship: Established by Myrtle Campbell Bell in memory of her brother, William Groce Campbell, this scholarship was created to benefit students in the University of Alabama School of Nursing at UAB. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, and a minimum grade point average of a 2.8 on a 4.0 scale.

The Violet Terrell Clark Nursing Scholarship: Established by Mr. and Mrs. Steve M. Bates in memory of Jean Clark Bates' mother, Violet Terrell Clark. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least 3.2 on a 4.0 scale. Preference will be given to applicants who plan to work with underprivileged patient populations upon graduation.

Gladys Farmer Colvin Memorial Scholarship: Established with funds from the family of Gladys Farmer Colvin, who was a nurse for many years at the Jefferson County Department of Public Health. Criteria: admission to or current full-time enrollment in the PhD program in the University of Alabama School of Nursing at UAB and have a cumulative grade point average of 3.0 or above on a 4.0 scale.

Comer Nursing Scholarship: Established with funds received from the Comer Foundation. Criteria: must show financial need as defined by the UAB Financial Aid Office, be a resident of the State of Alabama, have a cumulative grade point average of 3.0 or above, intend to practice nursing in the State of Alabama, and be enrolled full-time in study leading to the BSN degree at the University of Alabama School of Nursing at UAB.

School of Nursing Dean’s Endowed Scholarship: Established with funds from alumni and friends, this scholarship was created to assist those students whose qualifications are meritorious in the School of Nursing. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Preference will be given to those that have demonstrated leadership ability and academic promise, by earning at least a 3.5 (on a 4.0 scale) grade point average in coursework prior to the time of application.

School of Nursing Faculty and Staff Endowed Scholarship: Established with funds from School of Nursing Faculty and Staff, this scholarship was established to benefit the training and education of deserving nursing students. Criteria: admission to or current full-time enrollment in a degree-seeking program in the University of Alabama School of Nursing at UAB and an overall 3.5 (on a 4.0 scale) grade point average in coursework completed prior to time of application.

Francis S. Falkenburg Endowed Nursing Scholarship: Established with funds from the family of Francis S. Falkenburg, former member of the State Legislature of Alabama and lobbyist for UAB and the Alabama State Nurses Association. Criteria: admission to or current full-time enrollment in the undergraduate program in the School of Nursing and demonstrate financial need as determined by the UAB Office of Financial Aid.

Dr. Charles E. Flowers Jr. Endowed Nursing Scholarship: Established with funds from Dr. Juanzetta S. Flowers and family, colleagues and friends of Dr. Charles E. Flowers, this scholarship was created to assist deserving students who are enrolled in the University of Alabama School of Nursing at UAB. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Applicants should demonstrate solid academic promise and have earned a cumulative 2.8 (on a 4.0 scale) grade point average in coursework prior to the time of application.

Dr. Elwynn “Chick” Hale Endowed Nursing Scholarship: The family and friends of the late Dr. Elwynn “Chick” Hale have contributed funds to establish a memorial scholarship in Dr. Hale’s memory to assist deserving nursing students in the University of Alabama School of Nursing at UAB. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, and a cumulative grade point average of 3.0 on a 4.0 scale. Preference given to students who are citizens of Alabama or who express a desire to work in Alabama following graduation.

Nancy Eastman Harp Oncology Nursing Scholarship: Established as a memorial to Mrs. Harp (BSN 1972), an oncology nurse and a graduate of the University of Alabama School of Nursing at UAB who was killed in a tragic automobile accident, through a generous gift from Dr. J. Patrick Daugherty and her family and friends. Criteria: current full-time enrollment in the oncology concentration of the MSN degree, a cumulative grade point average of at least 3.0, and evidence of marked achievement or potential for marked achievement in oncology nursing.

Elizabeth Jane Harper Memorial Scholarship: Established by family members as a memorial to Elizabeth Jane Harper, who was...
a student at the University of Alabama School of Nursing at UAB. Criteria: must be currently enrolled as a full-time student in study leading to the BSN degree at the University of Alabama School of Nursing at UAB, be in good standing, and show financial need as defined by the UAB Financial Aid Office.

Mary J. Harwell Nursing Scholarship: Established with funds received from the estate of Mary Josephine Harwell through the provisions of her will. Criteria: must be admitted to or currently enrolled full-time in study leading to the BSN degree at the University of Alabama School of Nursing at UAB, and have a cumulative grade point average of 2.5 or higher. Preference will be given to residents of Elmore County, Alabama, and neighboring counties, and those who show financial need as defined by the UAB Financial Aid Office.

Florence A. Hixson Nursing Scholarship: Established by family, friends, and associates in honor of Dr. Florence Alberta Hixson, the first dean of the University of Alabama School of Nursing. Criteria: current full-time enrollment in study leading to an advanced degree at the University of Alabama School of Nursing at UAB and a cumulative grade point average of at least 3.0 on a 4.0 scale.

Marie S. Ingallis Endowed Nursing Scholarship: Established by funds from the estate of Marie S. Ingallis, a noted civic leader and philanthropist, who was a member of the School of Nursing’s Board of Visitors. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Applicants must have at least an overall 3.0 grade point average on a 4.0 scale at the time of the scholarship application.

Fay Belt Ireland Endowed Nursing Scholarship: Established with funds received from Mrs. William R. Ireland, Sr., to support Alabama students pursuing degrees in nursing at the University of Alabama School of Nursing at UAB. Criteria: applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Jernigan Nursing Scholarship: Established with funds received from Mr. and Mrs. Thomas E. Jernigan, Sr. Criteria: must have a cumulative grade point average of at least 3.0 on a 4.0 scale, and be eligible to enroll full-time in a junior level clinical nursing course at the University of Alabama School of Nursing at UAB. Preference will be given to those who demonstrate leadership potential or ability through participation in extracurricular activities or similar experiences.

Junior Board of Visitors Endowed Award in Nursing: Established by members of the UAB School of Nursing Junior Board of Visitors and the 2007 and 2009 Junior Board’s No-Show Ball fund-raising events. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, have earned a cumulative 3.0 grade point average on a 4.0 scale, and deserving of financial assistance as determined by the UAB Office of Financial Aid. First preference will be given to students demonstrating an interest and commitment to providing pediatric nursing care.

Margaret Parks Kendrick Nursing Scholarship: Established by Dr. Marvin Hayne Kendrick as a memorial to his mother, Margaret Parks Kendrick. Criteria: must show financial need as defined by the UAB Financial Aid Office, be admitted to or enrolled in full-time study leading to the BSN degree at the University of Alabama School of Nursing at UAB, and have a cumulative grade point average of at least 3.0 on a 4.0 scale. Preference will be given to residents of Crenshaw County, Alabama.

Mable E. Lamb Nursing Scholarship: Established by Mr. and Mrs. Thomas H. Lowder to encourage students to enter the nursing profession and to make it possible for many future nurses to focus on their studies without the burden of financial pressure. Criteria: admission to Nursing at UAB. Applicants should demonstrate solid academic promise and have earned at least a cumulative 2.8 grade point average on a 4.0 scale in coursework prior to the time of application. Preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Financial Aid.

Jarman F. Lowder Endowed Scholarship in Nursing: Established by Mr. and Mrs. Thomas H. Lowder to encourage students to enter the nursing profession and to make it possible for many future students in the School of Nursing to focus on their studies without the burden of financial pressures. Mrs. Lowder (BSN 1973) serves on the Board of Visitors for the School of Nursing. Criteria: must be admitted to or enrolled in a full-time degree-seeking program at the School of Nursing, have a cumulative 3.0 grade point average on a 4.0 scale in coursework at the time of application. Applicants will demonstrate high moral character and preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Financial Aid.

Lois Drolet Luckie Nursing Scholarship: Established in memory of Mrs. Luckie by her husband, Robert Luckie, Jr., and is awarded in honor of Holli Kemper (BSN 1985), one of Mrs. Luckie’s oncology nurses. According to Mr. Luckie, Ms. Kemper constantly “went the extra mile” during Mrs. Luckie’s terminal illness, carrying out her duties with great professionalism, cheerfulness and sympathetic skill. Criteria: must be admitted to or enrolled full-time in the School of Nursing, a cumulative grade point average of at least 3.0 on a 4.0 scale. Preference will be given to applicants who express an interest in oncology nursing.

The Robert Luckie Family Endowed Nursing Scholarship: Established with funds received from Robert Luckie, Jr., to enable deserving nursing students attending the University of Alabama School of Nursing at UAB realize their dream of receiving a quality education. Criteria: admission to or current full-time enrollment in a degree-seeking program in the University of Alabama School of Nursing at UAB, a cumulative grade point average of 2.8 on a 4.0 scale. Preference will be given to students who are citizens...
of Alabama or who express a desire to work in Alabama following graduation and demonstrate financial need as determined by the UAB Office of Financial Aid.

**Eileen Marie Mahan Endowed Nursing Scholarship:** Established in memory of Eileen Marie Mahan (MSN 1980), who died in an automobile accident. This memorial scholarship is to enable deserving graduate students in the School of Nursing. **Criteria:** admission to or current full-time enrollment in a degree-seeking graduate program in the University of Alabama School of Nursing at UAB, a cumulative grade point average of 3.0 out of 4.0, and must demonstrate financial need as determined by the UAB Office of Financial Aid.

**Alice L. McCallum Endowed Nursing Scholarship:** Established by family and friends of Dr. Charles A. McCallum, Jr., and the late Alice L. McCallum. Criteria: admission to or current full-time enrollment in the School of Nursing, a cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to first year students enrolled in the undergraduate or graduate pre-licensure programs.

**Peggy Spain McDonald Endowed Nursing Scholarship:** Established with funds received from Peggy Spain McDonald, a longtime community leader in Birmingham. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to those who have demonstrated an interest in geriatric nursing.

**Alma B. McMahon Endowed Nursing Scholarship:** Established with funds received from dear friends of Alma McMahon, a member of the School of Nursing Board of Visitors. Mrs. McMahon received her nursing degree later in life and worked for 13 years as a Registered Nurse at St. Vincent’s Hospital in Birmingham, with 12 of those years caring for heart patients after they left the intensive care unit. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to applicants who plan to work in Alabama upon graduation.

**Barbara and Emmet O’Neal Endowed Nursing Scholarship:** Established with gifts from friends of Barbara O’Neal and the late Emmet O’Neal. Mr. O’Neal left a legacy as a generous benefactor and supporter of the people of Birmingham, and Mrs. O’Neal is a member of the School of Nursing’s Board of Visitors. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least a 3.2 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to students who have a desire to pursue a career in community-based nursing.

**Dr. Margaret Millsap Memorial Endowed Award in Nursing:** Established by family members, friends, former students, and colleagues of Dr. Millsap, alumni of the School of Nursing at The University of Alabama at Birmingham (UAB), and members of the Nu Chapter of Sigma Theta Tau International, the Honor Society of Nursing. **Criteria:** admission to or current enrollment in a degree-granting program in the School of Nursing at UAB. Both full-time and part-time students are eligible for the award. Applicants should have earned at least an overall 3.0 grade point average.

**Thelma Walker Mitchell Endowed Nursing Scholarship:** Established with funds from the estate of Thelma Walker Mitchell, who was a 1941 graduate of the Hillman Hospital School of Nursing at what is now UAB. She made maternal and child health nursing her life’s work, including many years as a nursing consultant to the Alabama State Department of Public Health Bureau of Maternal and Child Health in Montgomery.

**Mary G. Nash Endowed Nursing Scholarship:** Established by colleagues and friends to pay tribute to Dr. Mary G. Nash and her service to the School of Nursing, University Hospital, and UAB. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing Preference will be given to applicants who plan to work in Alabama upon graduation. The School of Nursing Office of Development and Alumni Affairs announces application deadlines and procedures.

**Emmet and Mary Anne O’Neal Endowed Nursing Scholarship:** Established with funds from the Delia and John Robert Trust to support students pursuing degrees in nursing and to honor the late Mr. Phifer. The scholarship assists Alabama residents who are currently enrolled in, or have been admitted to, the baccalaureate, masters or doctoral degree-seeking program within the University of Alabama School of Nursing at UAB. **Criteria:** admission to or current full-time enrollment in study leading to a degree in nursing at the University of Alabama School of Nursing at UAB, cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid.

**The Reese Phifer, Jr. Nursing Scholarship:** Established by the Reese Phifer, Jr., Memorial Foundation to support Alabama students pursuing degrees in nursing and to honor the late Mr. Phifer. The scholarship assists Alabama residents who are currently enrolled in, or have been admitted to, the baccalaureate, masters or doctoral degree-seeking program within the University of Alabama School of Nursing at UAB. **Criteria:** admission to or current full-time enrollment in study leading to a degree in nursing at the University of Alabama School of Nursing at UAB, cumulative grade point average of at least a 3.0 on a 4.0 scale, and must be a resident of the state of Alabama.

**Delia and John Robert Endowed Nursing Scholarship:** Established with funds from the Delia and John Robert Trust to support students seeking a professional nursing career. **Criteria:** current full-time enrollment in study leading to a degree in nursing at the University of Alabama School of Nursing at UAB and a cumulative grade point average of at least 3.0. Preference will be given to those for whom the decision to return to school is a second life choice; or who may have pursued a degree in nursing earlier in life and been forced by circumstances to stop that education; or
who are returning to school in order to seek an advanced degree in nursing.

**John Wilson Rodgers Memorial Scholarship:** Established by Dr. Marguerite Rodgers Kinney (Dipl 1961), a faculty member at the University of Alabama School of Nursing at UAB, as a memorial to her father. **Criteria:** good academic standing, current full-time enrollment in study leading to the MSN degree. Preference will be given to applicants who are pursuing, or their program of study shows that they plan to pursue, advanced study in cardiovascular nursing and demonstrate financial need as determined by the UAB Office of Student Financial Aid.

**Benjamin and Roberta Russell Nursing Scholarship:** Established with funds received from the Benjamin and Roberta Russell Foundation. **Criteria:** admission to or current full-time enrollment in study leading to a degree in nursing at the University of Alabama School of Nursing at UAB, cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to those who are residents of Alabama or who express a desire to live and work in an underserved area of the state following graduation.

**Rylee/Casper Endowed Nursing Scholarship:** Established by a charitable gift from Mrs. Gladys Muriel Rylee Casper who was a 1947 diplomat of the School of Nursing who served for more than two decades as a nurse in the armed forces. **Criteria:** admission to or current full-time enrollment in a degree-seeking program at the University of Alabama School of Nursing at UAB, demonstrate financial need as determined by the UAB Office of Student Financial Aid, and applicants must be residents of the State of Alabama. Preference will be given to applicants from Bibb, Chilton, or Perry Counties.

**Dr. Paul W. Scockel III and Mary Lou Scockel and William A. Honeycutt and Christine R. Honeycutt Endowed Scholarship:** Established by Mr. and Mrs. Paul S. Scockel in honor and memory of their parents Dr. Paul W. Scockel III and Mary Lou Scockel and William A. Honeycutt and Christine R. Honeycutt. **Criteria:** must show financial need as defined by the UAB Financial Aid Office, earned at least an overall 3.0 grade point average, and be currently enrolled in, or admitted to a degree-granting program at UAB School of Nursing.

**Ethel M. and Jesse D. Smith Nursing and Allied Health Scholarship:** Established by Dr. Bettye Jane Smith as a memorial to her parents, Ethel McCarty Smith and Jesse Doswell Smith. **Criteria:** must show financial need as defined by the UAB Financial Aid Office, be an Alabama resident, have a cumulative grade point average of at least a 3.0 on a 4.0 scale, and be admitted to or enrolled in full-time study leading to the BSN degree at the University of Alabama School of Nursing at UAB.

**School of Nursing Faculty and Staff Endowed Scholarship:** Applicants should demonstrate high moral character, as well as the potential for a nursing career that will reflect positively on the nursing profession and on the University. This scholarship is merit-based and applicants are required to have at least a 3.5 GPA.

**SOS Foundation of Jefferson County Scholarship:** Established with funds received from the Sabin Oral Sunday Foundation of Jefferson County. Preference will be given to a Jefferson County, Alabama, resident enrolled full-time in study leading to the BSN degree at the University of Alabama School of Nursing at UAB.

**Dorothy Sterne Nursing Scholarship:** Established with funds received from the Dorothy Sterne estate through the provisions of her will. Preference will be given to Calhoun County, Alabama, residents enrolled full-time in study leading to the BSN degree at the University of Alabama School of Nursing at UAB.

**Student/Alumni Endowed Nursing Scholarship:** Established with funds raised from current and former students, this scholarship was developed by former students who wanted to make a difference in the lives of future students. Every year, former students contribute through the School of Nursing’s Annual Fund. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least 3.0 on a 4.0 scale.

**Catherine S. and Lee J. Styslinger, Jr., Endowed Nursing Scholarship:** Established by Catherine S. and Lee J. Styslinger, Jr., well known residents of Birmingham and throughout the state of Alabama for their leadership and generous philanthropic support. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to students enrolled in the undergraduate and/or graduate pre-licensure programs.

**Thor-Louck Endowed Scholarship in Nursing:** Established with funds from Isobel H. Thorp and Phyllis M. Loucks, beloved former faculty members of the School of Nursing. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least 3.0 on a 4.0 scale.

**Martha F. Tilt Endowed Nursing Scholarship:** Established with funds from her three sons, family, and friends with the intent that students will be given a helping hand into a profession through the scholarship and memory of at least one inspirational role model who lived and defined the profession, a lady who gained her rewards in life through befriending, comforting and caring for others. She had the heart of a nurse and shared it freely with everyone she met. **Criteria:** admission to or current full-time enrollment at the School of Nursing, and a cumulative grade point average of at least 2.5 on a 4.0 scale. First preference will be given to mature, non-traditional, first-year nursing undergraduate students, as defined by the university, and to those applicants who plan to practice nursing either in a clinical or a hospital setting upon graduation. Preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Student Financial Aid.

**Jean Riley Tomlinson Endowed Nursing Scholarship:** Established by Mrs. Tomlinson, longtime member and former chair of the School of Nursing Board of Visitors. This scholarship pays tribute to the nurses and physicians specializing in cardiovascular illnesses who have provided excellent care to her husband, Jack O. Tomlinson, Sr., in recent years. The Tomlinsons intend that this scholarship will make a significant difference for students in need of financial assistance for higher education. **Criteria:** admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid.
determined by the UAB Office of Financial Aid. Preference will be
given to those who have demonstrated an interest in cardiovascular
nursing.

Governors Lurleen B. and George C. Wallace Memorial Fund:
Established by Mr. and Mrs. James T. Parsons to honor Mrs.
Parsons’ parents, Governor Lurleen Burns Wallace and Governor
George Corley Wallace. Gov. Lurleen Wallace respected and
admired the work of nurses, and Gov. George Wallace was a strong
supporter of UAB and provided significant support through funding
and legislation. This fund is used for scholarships and many other
worthy purposes within the University of Alabama School of Nursing
at UAB.

Please note that the following sources are outside of the School’s
Scholarship office. Please contact the programs at the appropriate phone
number or address which accompanies each description.

Alabama Board of Nursing Scholarships: Visit the Alabama
Board of Nursing Website at http://www.abn.state.al.us/ for the most
up to date information about this funding opportunity.

Alabama State Nurses’ Association Educational Loan:
Educational loans are available to registered nurses who are
members of ASNA and are working to complete advanced degree
in Nursing.

Lettie Pate Whitehead Foundation Scholarship: Nursing
scholarships are provided to undergraduate students each year
through funds provided by this foundation. Financial need is the
primary prerequisite. Contact the UAB Financial Aid Office at
205-934-8223 for information concerning these scholarships.
Progress Toward a Degree

Responsibilities

The student is responsible for selecting and registering for courses necessary for reasonable progress toward the degree sought. The minimum requirement for reasonable academic progress is that the student must pass a minimum of 24 semester hours of coursework in an academic year.

The Office of the Registrar is responsible for registration, recording and reporting grades; maintaining current and permanent records on all students; enforcing rules on academic warning, probation and suspension; certifying students for graduation; and issuing transcripts. The office is located in the 1605 Building, 1605 11th Avenue South, Birmingham, Alabama 35294-4300, (205) 934-8228.

Students must notify the Office of the Registrar of address changes so that notices and other materials are sent to the current address. Changes may be made online in BlazerNET or in person.

Freshman Year Experience

Students entering UAB with less than 24 hours of college credit must take and pass a first year experience (FYE) course in their first 24 credit hours at UAB. FYE courses include freshman learning communities, U101, and school-specific FYE courses.

Capstone Course

Freshman students entering UAB in fall 2009 or after, must successfully complete the capstone course or experience required by their major program or school in order to graduate. All students graduating in 2013 or later must complete a capstone requirement.

Declaration of a Major

Degree students must declare a major within their first 60 semester hours of course work before registering for additional courses. Students enrolling at UAB for the first time and who already have earned 60 semester hours will have a maximum of two terms within which to declare a major. Conditions for acceptance of a student into a major vary by department and school. Majors should be declared or changed online at BlazerNet. Some majors are subject to additional admission requirements and enrollment limitations.

School, Major, or Address Changes

Changes or corrections to a student’s address, telephone number, school, or major can be made online through BlazerNet or at or in person at One-Stop Student Services, Residence Life Center of Blazer Hall, 920 16th Street South, Birmingham, Alabama 35294-1150.

Course Enrollment

Terms and Course Offerings

There are three academic terms during a calendar year: fall semester, spring semester, and summer semester. The fall and spring semesters each consist of approximately 14 weeks of classes, followed by one week of final examinations. The summer term consists of five sessions, each with its own time and format. The five summer term sessions are as follows: a fourteen-week session that runs throughout the summer term; the intensive May session, consisting of the first three weeks of the summer semester; a ten week session, beginning after the May session ends and running until the end of the summer semester; and the summer A and summer B sessions, which are seven weeks long and run back-to-back concurrently with the fourteen week session. The courses to be offered during a particular term are listed in the online Class Schedule. Summer/Fall class schedules are available to students in early March; spring semester schedules are available in late October.

Registration

A student wishing to attend any of the three academic terms must register for that specific term. A student is eligible to register if he/she has been admitted to UAB, the student’s financial records in the Student Accounting Office are clear, and the student is in good academic standing. An early registration period for fall semester will occur every spring for degree-seeking students.

Credit Hours and Loads

The unit of credit at UAB is the semester hour. Course descriptions indicate the number of semester hours that may be earned for a particular course. A standard course load for a full-time student is 15 semester hours of course work in a semester. At least 12 semester hours of course work are required for full-time status. Registration for more than 18 semester hours in a term or more than three semester hours in the
May Session requires approval by the dean or the dean’s representative of the school in which the student is majoring.

Prerequisites for a Course
Prerequisites are enforced for UAB students. Prerequisites are waived for transient students taking courses at UAB. It is the student’s responsibility to ensure that prerequisites for a course are met before registering for the course. Advisors are available to help with this determination. Prior to the end of the designated drop period, the instructor has the prerogative to drop from the course a student who does not meet the prerequisites.

First Class Attendance
An instructor has the prerogative to drop a student from a course if the student is absent without prior notification from the first class of a term. Such action is at the discretion of the instructor, and absence from the first class does not automatically drop the student from the course. If a student wishes to drop or withdraw from the course, the student must follow official drop or withdrawal procedures. A student who misses the first class of a term is responsible for determining his/her status in the class.

Attendance and Excused Absence Policy
UAB recognizes that the academic success of individual students is related to their class attendance and participation. Each course instructor is responsible for establishing policies concerning class attendance and make-up opportunities. Any such policies, including points for attendance and/or participation, penalties for absences, limits on excused absences, total allowable absences, etc., must be specified in the course syllabus provided to students at the beginning of the course term. Such policies are subject to departmental oversight and may not, by their specific prescriptions, negate or circumvent the accommodations provided below for excused absences.

The University regards certain absences as excused and in those instances requires that instructors provide a reasonable accommodation for the student who misses assignments, presentations, examinations, or other academic work of a substantive nature by virtue of these excused absences. Examples include the following:

- Absences due to jury or military duty, provided that official documentation has been provided to the instructor in a timely manner in advance.
- Absences of students registered with Disabilities Services for disabilities eligible for “a reasonable number of disability-related absences” provided students give their instructors notice of a disability-related absence in advance or as soon as possible.
- Absences due to participation in university-sponsored activities when the student is representing the university in an official capacity and as a critical participant, provided that the procedures below have been followed:
  - Before the end of the add/drop period, students must provide their instructor a schedule of anticipated excused absences in or with a letter explaining the nature of the expected absences from the director of the unit or department sponsoring the activity.
  - If a change in the schedule occurs, students are responsible for providing their instructors with advance written notification from the sponsoring unit or department.
- Absences due to other extenuating circumstances that instructors deem excused. Such classification is at the discretion of the instructor and is predicated upon consistent treatment of all students.

- Absences due to religious observances provided that students give faculty written notice prior to the add/drop deadline of the term.

In these instances, instructors must devise a system for reasonable accommodation including, for example, policies allowing for dropped exams/quizzes, make-up exams, rescheduling of student classroom presentations or early or later submission of written assignments.

Add/Drop Procedures
Drop/Add deadlines are published in the Academic Calendar available online. In the case of fall and spring semesters, the last day to drop a class without paying full tuition is the eighth calendar day of the term; the last day to add a class is also the eighth calendar day of the term.

It is the student’s responsibility to initiate add/drop procedures. Students may drop and add courses online after they have registered and until the drop/add deadline online using BlazerNET or in person in the Office of the Registrar.

Students may register online if space is available or use the add/drop form and receive an instructor’s signature for classes that are filled to capacity. A student beginning the registration process during the late registration period will be assessed a late registration fee of $75.

Withdrawing from Courses
To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). The withdrawal period ends at approximately 75% of the academic term. Failure to attend class does not constitute a formal drop or withdrawal.

Withdrawal from courses can only be accomplished using official procedures. The official withdrawal must be completed online in BlazerNET or a completed withdrawal form must be submitted to One Stop Student Services. This office will date stamp the form and return a copy. These documents should be retained carefully by the student. The date printed on the receipt is the official date of withdrawal.

In extraordinary circumstances, if it is impossible for the student to withdraw online the student may mail a withdrawal letter to the Office of the Registrar. The official date of withdrawal will be the date the letter is received in this office. If the official date of withdrawal is after the last day to drop without paying, no tuition or fees will be refunded.

For financial aid purposes, the date of last class attendance will be the official date of withdrawal unless otherwise documented. Note that individual schools may have withdrawal rules in addition to the above.

Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student’s performance prior to withdrawal if the violation is substantiated.

Exceptions
All students are responsible for adhering to UAB’s academic policies, as published in the UAB Undergraduate Catalog. The Provost may make exceptions to policies. Exceptions will only be made in extraordinary circumstances. Only in cases of serious illness, which precludes a student from attending classes, or a call to active military service, can a student qualify under this policy for either administrative or academic withdrawal from courses from that semester. In such instances, students requesting an exception to
policy must provide the cause specific documentation in order for the request to be considered.

Requests are evaluated only from written documentation and not through appointments or telephone calls. Information and forms are available online (https://www.uab.edu/students/academics/item/899-exceptions-to-academic-policy). (Please note that grievances of an academic nature are addressed through the Academic Grievance Policy). Requests for exceptions must be submitted at the earliest possible time. Consideration will not be given to any request submitted later than the term immediately following the term for which the exception is being requested. A full reduction in tuition and associated fees will be made for appropriately documented serious illnesses or military service activation, which preclude a student from continuing his/her studies at UAB. For students receiving refunds, such refunds will first be applied to any outstanding obligations and to any scholarship, grant, or loan the student has received for that term. A student who is receiving any form of Federal Title IV Financial Aid will be liable for any unearned funds received as determined by the Federal Return of Funds Policy (check with Student Accounting Office for details.)

Failure to adhere to the published drop and withdrawal deadlines (as outlined in the UAB Catalog and the UAB Class Schedule) does not qualify under this policy as an Academic Exception.

Contact
Exceptions to Academic Policy • Office of the Registrar • 1605 11th Avenue South • 1605 Building • Birmingham, AL 35205 • (205) 934-8228

Course Completion

Final Examinations
The final examination for each course is scheduled for a designated period during finals week. The final examination time cannot be changed without the approval of the appropriate dean. A student with three or more exams scheduled in one day or two exams scheduled during the same final exam period may request to have one exam rescheduled by mutual agreement between student and instructor. The student’s request to the instructor should include appropriate written documentation of his/her schedule and should be provided to the instructor at least 14 calendar days prior to the last day of classes. Faculty are encouraged to work collaboratively with students and other faculty when such situations arise. Faculty reserve the right to administer an alternate examination at the rescheduled time.

Grading Policies and Practices

Grade Report
Final grades of all students are recorded and posted to their transcripts. In determining these final grades, the faculty may consider such things as grades received in daily recitations, written work, laboratory work, tests, and final examinations. Grade reports are available online and upon request.

Grades Assigned by the Faculty
A (superior achievement)
B (above average)
C (average)
D (minimally adequate)
F (failing)
P (passing) Applicable only to a course taken on a pass/fail basis.

I (incomplete) is a temporary notation which is assigned at the discretion of the instructor, and only if the following three conditions are met.

• The student, for nonacademic reasons beyond his or her control, is unable to complete course requirements.
• The student is according to the instructor’s assessment, currently passing or has demonstrated the potential for passing the course.
• The student has made arrangements with the instructor, prior to the grade submission deadline, for completing the course requirements.

It is the responsibility of the student receiving an Incomplete to arrange with the instructor whatever action is needed to remove the Incomplete at the earliest possible date. If make-up work requires classroom attendance in a subsequent term, the student must register for the course as an auditor (with the instructor’s permission) and must pay tuition and associated fees.

An Incomplete will not be calculated in the student’s grade point average for the term in which the notation appears. However, an Incomplete that is not changed by the instructor by the grade submission deadline of the next semester automatically converts to an F. A notation of Incomplete may not be used to meet a prerequisite requirement. A student cannot graduate with an Incomplete notation on his or her academic record.

MT (Multi-term) is a temporary notation which may be assigned in departmentally approved courses, including theses, practica, and internships, if work cannot be completed within one semester. A notation of MT will not be calculated in the student’s grade point average for the term in which the notation appears. However, an MT notation that is not changed by the instructor by the grade submission deadline of the next semester automatically converts to an F. A student cannot graduate with an MT notation on his or her academic record.

Notations Assigned by the Office of the Registrar
W (withdrawn) A notation assigned by the Office of the Registrar reflecting an administrative action initiated by the student in accordance with regulations governing withdrawal from courses. “W” (withdrawn) may not be assigned by the instructor.

N (no grade submitted) A temporary notation made by the Office of the Registrar if no grade (A, B, C, D, F, I, or P) is assigned the student by the course instructor. This notation is used only when the Office of Registrar is unable to obtain a grade from the instructor prior to the issuing of grade reports or when the course is designed to extend beyond a single term. It remains the instructor’s responsibility to assign a permanent grade. If the instructor has not submitted a grade by the end of the following term, the “N” (no grade submitted) is changed automatically to an “F” (failing) by the Office of the Registrar. The notation “N” cannot be extended.
Study Away Grading Policy

Auditing
Auditing of any UAB Study Away approved classes/courses/programs will not be permitted. This policy has been put into effect to ensure full participation by all students on such approved programs. This policy includes faculty-led, third party, and reciprocal exchange programs.

Grade Assignment and Posting of Study Away Grades to the UAB Transcript
For those programs in which a UAB faculty member is teaching a class, the faculty member/instructor will assign the final grade as is normally done for any regular UAB class taught on campus. See the Grading Policies and Practices section of the UAB Catalog of Undergraduate Programs. In most cases letter grades shall be assigned. Assignment of a pass/fail grade will be left to the discretion of the faculty leader/instructor of the course and will be determined on a case-by-case basis.

In all cases, students must participate fully in all course activities and meet all stated course requirements. In cases where a student is receiving final grade evaluation from a foreign institution, UAB will honor the U.S. equivalent of the final grade that is assigned by that host institution and posted to the official transcript of said host institution. If a foreign institution assigns a pass/fail grade on the official host institution transcript, then the UAB transcript will reflect such a pass/fail final grade.

Grade Assignment and Posting of National Student Exchange or the Washington Center Grades to the UAB Transcript
UAB students participating in these programs are subject to the grading policies of the host institution. Assignment of grades will be left to the discretion of the host university instructors of the students’ courses.

In all cases, students must participate fully in all course activities and meet all course requirements. In cases where a student is receiving final grade evaluation from a foreign institution, UAB will honor the U.S. equivalent of the final grade that is assigned by that host institution and posted to the official transcript of said host institution. If a foreign institution assigns a pass/fail grade on the official host institution transcript, then the UAB transcript will reflect such a pass/fail final grade.

Grade Change Policy
Final grades for an I (Incomplete) or an MT (Multi-term) should be submitted no later than the grade submission deadline of the semester after the notation was originally awarded; Incomplete and Multi-term notations not changed by that time will convert to Fs. Grade submissions for an I or a MT must be submitted to the Office of the Registrar with a Grade Submission Form signed by the instructor of record. In general, end-of-course grades submitted to the Office of the Registrar are final and are not subject to change by reason of revision of the teacher’s judgment; nor are submitted grades to be revised on the basis of a second trial (e.g., a new examination or additional work undertaken or completed). Grade changes submitted in order to correct an error in computation or transcription must be made within two semesters after the grades were originally submitted. These grade changes must be submitted via BlazerNET and require the teacher’s statement as to the reason for the change, the approval of the department head, and the approval of the dean of the school in which the course is taught.

Auditing Courses
As an alternative to full participation in a course, students may audit the course. Auditors do not receive grades and do not usually participate in the examinations; however, instructors have the option of establishing requirements for a satisfactory audit.

Audit is similar to regular enrollment. Students choosing this option must be admitted to UAB; enroll in the course by completing a UAB registration form, indicating “AU” in the column labeled “Sem. Hrs.”; obtain the signature of the instructor; and pay the same tuition and fees as regular enrollees. Provided the instructor’s requirements are met, the course will appear on the transcript with the notation “AU” and zero semester hours credit.

If the requirements are not met, a “W” will be entered on the transcript.

Course registration, withdrawal, and drop policies apply to audited courses. In instances of over-enrollment, preference is given to students taking courses for credit, and auditing students may be dropped.

A student is not permitted to change from audit to credit or credit to audit at any time.

Courses Taken on a Pass/Fail Basis
A degree-seeking student who is in good standing may request permission from an instructor to register for a course on a pass/fail basis. The course must be one for which the student is eligible to register and cannot be among those used to satisfy core requirements. The department must approve all courses taken on a pass/fail basis if used to satisfy major and minor requirements. A student must declare the intention to take a course on pass/fail basis by notifying the instructor prior to the first class meeting. It is recommended that students consult their academic advisors prior to taking any course as pass/fail.

Grades awarded for a pass/fail course are “P” (pass) or “F” (fail). A grade of “P” carries full credit for the course, but the course is not counted in calculating the grade point average. At most, twelve semester hours take on a pass/fail basis may be used to satisfy degree requirements (not including courses for which “P” or “F” is the only grade awarded).

Course Repeat
A student may repeat any course in an effort to improve grades and/or to improve understanding of the course content. Students are encouraged to seek advice of an academic advisor before repeating courses.

A student may repeat an individual course no more than one time (for a total of two attempts). Under exceptional circumstances, and upon approval of a formal electronic appeal submitted to the Associate Dean of the College or School in which the course is taught, a student may be allowed to repeat a course for a second time (for a total of 3 attempts). A student may not appeal to repeat a course more than a second time.

Both the original grade and the repeated grade(s) will show on the student’s transcript. Both grades will also be calculated in the student’s grade point average (GPA) unless the forgiveness policy is applied. It is the student’s responsibility to notify the Office of the Registrar of his/her applying the forgiveness policy to a repeated course. The process is not automatic. (See Forgiveness Policy below). Academic departments and
schools may have additional provisions regarding how repeat courses affect the calculation of GPA.

A course repeat takes place any time a student retakes a course for which that student has already received an A, B, C, D, F, P, W, AU, NP, MT, or N. Students should not re-enroll in a course for which they have been assigned a grade of I (incomplete) and will not be affected by this policy unless the I converts to a grade of F. Courses which are designed to be repeated (e.g. Independent Study, Special Topics, Music Recital, etc.) are exempt from this policy.

University Forgiveness Policy

UAB offers the undergraduate student a forgiveness option by which courses taken at UAB may be repeated at UAB, and the grade for the first course will be excluded from the calculation of his/her grade point average (GPA). If a student has repeated a course more than once, the student may choose which grade should be removed from the calculation. Only courses for which the student has received a grade of C, D, or F may be repeated under this option. The forgiveness policy may be used a maximum of four (4) times, only once for any course, which allows a student to use the forgiveness for four different courses. The transcript will show both the original grade and the course repeat grade, but only the grade points and credit hours earned in the repeated courses will be counted toward degree completion and averaged into the student’s GPA. Once a course grade is declared forgiven, the decision is irrevocable. (The forgiveness policy can be invoked at any time for a repeated course; however, all forgiveness requests must be made prior to application for degree). It is the student’s responsibility to notify the Office of the Registrar of his/her applying the forgiveness policy to a repeated course. The process is not automatic.

The Forgiveness Policy can only be applied to grades earned at UAB. Forgiveness forms are available online (https://www.uab.edu/students/one-stop/item/895-forgiveness-form) and also in One-Stop Student Services, located in the Residence Life Center of Blazer Hall.

Note that individual schools may have course repeat and forgiveness policy rules in addition to the above.

In accordance with the UAB Academic Honor Code, any course grade of F for academic misconduct supersedes any other grade or notation for that class and therefore is not eligible for replacement under the Forgiveness Policy.

The New Start Option

The New Start Option serves the student who previously accumulated a poor academic record, but who has recently demonstrated the ability to succeed in college-level work at UAB. The option enables the student to eliminate from the grade point calculation all grades and credit hours earned prior to the date of the New Start and begin anew with work from that point forward. To be eligible, a student must not have been enrolled in an academic institution for at least five (5) consecutive calendar years.

The policy does not apply to college graduates or to admission policies in the Schools of Nursing and Health Professions, nor to college graduates, admission policies and progress toward degree in the School of Education’s Teacher Education Programs leading to certification. Students seeking degrees in a Non-Certification Program are eligible for the New Start Option.

To apply for the New Start Option, the student must obtain the written approval of an academic advisor. The application must be filed with the Office of the Registrar prior to graduation and must specify a date, called the New Start date, prior to which all grades and notations are voided.

The application will not be considered until the following are met:

1. The student’s transcript contains at least 24 semester hours of course work applicable to a degree (i.e. hours earned, but not necessarily to a particular major) at UAB, posted after the requested New Start date.
2. The Higher Education GPA on all work taken after the requested New Start date, as well as the UAB GPA, must be at least 2.0.

Policies governing the New Start Option are as follows:

1. Upon approval of the application, all grades (including passing grades) and notations listed on the transcript prior to the New Start date are placed in a separate listing on the transcript and are voided for purposes of satisfying UAB degree requirements and computing GPA. The transcript carries the notation: “Approved for New Start (date); work prior to this date is not calculated in GPA or applied toward a degree.”
2. All work completed after the New Start date is counted toward completion of a degree, in accordance with policies of the catalog in effect at the New Start date. The transcript will be re-evaluated from the New Start date. The forgiveness policy applies only to courses taken after the New Start date.
3. A course completed before the New Start date, and which is a prerequisite for a course to be taken later, must be taken again even if successfully completed before the New Start date, unless explicit exception is made by the chair of the department in which the course is taught.
4. The student may employ alternative credit to replace some voided courses taken prior to the New Start date.
5. A student may not use the New Start Option to graduate with honors.
6. The New Start Option may be granted only once during the student’s academic career at UAB and is irrevocable.

Academic Warning, Probation, and Suspension

Academic Warning

A first-term freshman (a student with no previous college credit, except through dual enrollment) will be placed on academic warning if a grade point average of at least 2.0 is not earned during the first term of enrollment. The freshman must meet with his/her academic advisor before the next registration period. If the second term’s UAB grade point average is not 2.00 or higher, then the freshman will be placed on academic probation.

Academic Probation

A student (other than a first-term freshman) will be placed on academic probation if his/her UAB grade point average falls below 2.00 and will be required to meet with his/her academic advisor before the next registration period. At this meeting, the student and advisor will agree on a plan of action that will best help the student with his/her academic progress (e.g., courses to take or repeat, supplemental instruction, reduced credit hour load, basic skills seminars, etc.). The Academic
Plan will be monitored by the student’s academic advisor throughout the probationary period. While on academic probation, the student must earn a minimum 2.0 term GPA each term of enrollment, or they will be suspended (first suspension is one term; any subsequent suspension is one year). In order to clear academic probation, the student must earn a UAB GPA of at least 2.0.

**Academic Suspension**

If while on academic probation a student fails to achieve a minimum term GPA of 2.0, the student will be suspended for one term. When returning from the one-term suspension, the student must meet with his/her academic advisor to be reinstated prior to registering for classes. The student will be reinstated on academic probation and must achieve a 2.00 or higher term grade point average each term until the UAB grade point average is at least 2.00. The student must achieve a UAB grade point average of at least 2.00 to have the academic probation removed.

Students wishing to return to UAB after a one-year suspension must submit an application for readmission and a letter of appeal for readmission to the Office of Undergraduate Admission. The deadline for a student to submit an application and letter of appeal for readmission will be eight weeks prior to the date of intended enrollment. By this deadline, an applicant must have submitted any attending documentation to support the appeal.

If readmitted to UAB after a one-year suspension, the student will be admitted under probation and must achieve a 2.00 grade point average each term until the UAB grade point average is at least 2.00. If both the term grade point average and the UAB grade point average fall below 2.00, the student will be placed on suspension for one year.

Credits earned while on academic suspension from UAB or another institution may be eligible for transfer. However, the UAB Forgiveness Policy can only be applied to grades earned at UAB.

Note that individual schools may have probation and/or suspension rules in addition to the above.

All notations of academic warning, probation or suspension are a permanent part of a student’s transcript.

**Appeal of a One-Term Academic Suspension**

Students academically suspended from UAB for one term are not allowed to register for classes at UAB until the end of the suspension period. If a student appeals successfully, he or she will be immediately eligible for readmission.

The procedure for a student to appeal an academic suspension decision is as follows:

1. The suspended student must present a petition describing the extraordinary personal circumstances that contributed to his or her academic deficiencies. Such events must be highly unusual such as the death of an immediate relative, a serious illness, severe financial distress, or personal crisis. Each individual wishing to appeal an academic suspension is required to submit a petition outlining the reasons for the applicant’s previous academic problems and how the applicant plans to correct the problems. Each petition must be accompanied by appropriate documentation relative to the need for additional consideration and/or substantiating the extenuating circumstances related to the appeal. The student petition should be received in the Office of the Registrar no later than five working days prior to the beginning of the desired semester of entry. The suspension appeal documentation will be forwarded to the Suspension Appeals Committee.

2. The Suspension Appeals Committee is composed of five members (two faculty members appointed by the Provost’s designee, one student designated by the Student Government Association, one representative from Registration and Academic Records, and the University Registrar) who will review all petitions.

3. Should the Suspension Appeals Committee determine that an extraordinary personal event contributed significantly to the student’s academic deficiencies, and there is evidence of an adequate plan to address these extraordinary circumstances, they will recommend that the student be reinstated on academic probation. The student must maintain a minimum 2.0 term grade point average each term and achieve a minimum UAB GPA of 2.0 by the time they earn 90 hours to avoid a one-year suspension.

4. The decision of the Suspension Appeals Committee is final.

The Office of the Registrar is the administrative unit responsible for the academic suspension appeals process. This unit is responsible for coordinating the appeals process, maintaining the official records and producing annual reports.

**Transcripts**

Transcripts may be requested online (https://www.uab.edu/students/onestop/item/800-request-an-academic-transcript) or in person at One Stop Student Services.

Upon request by the student, the Office of the Registrar will send an official transcript directly to the recipient designated by the student. Official transcripts will not be issued to the student; however, an unofficial transcript may be issued to the student. There is a charge for each transcript. Transcript requests will be honored only for students whose financial accounts with UAB are clear, including payment of charges for the current term.

**Classification of Students**

Students are classified as sophomores when they have earned 30 semester hours of credit, juniors when they have earned 60 semester hours of credit, and seniors when they have earned 90 semester hours of credit.

**Overall Credits and Grade Point Average**

The official determination of “credit hours earned,” “credit hours attempted,” and “grade point average” are made only by the Office of the Registrar. The following sections indicate how these figures are calculated. Transfer work and courses taken at UAB are treated on the same basis. Developmental courses are not included in calculations of credit hours earned, credit hours attempted, or grade point average.

**Credit Hours Earned**

The student’s “credit hours earned” are increased by:

1. Earning a passing grade (D or better) in a course for which the student was registered for credit.

2. Obtaining the “Pass” grade in a course taken on a pass/fail basis.
3. Obtaining the “Pass” grade for alternative credit.

Credit Hours Attempted
The student’s “credit hours attempted” are increased by:
1. Receiving an A, B, C, D, or F in a course for which the student was registered for credit.
2. Receiving the “Fail” grade in a course taken on a pass/fail basis.

Grade Points
Four quality grade points are awarded for each semester hour for which the student received an A grade; three quality grade points are awarded for each semester hour in which a B is obtained; two quality grade points are awarded for each semester hour in which a C is obtained; and one quality grade point is awarded for each semester hour in which a D is obtained. No quality grade points are awarded for an F.

Grade Point Average
The grade point average is determined by taking the grade points obtained and dividing by the credit hours attempted (not credit hours earned). The UAB grade point average is determined using only work attempted at UAB. The higher education grade point average is determined by calculating all college work attempted.

Academic Honors
UAB compiles and publishes an honor roll at the close of each regular term. Only UAB work is considered. To be eligible for the Presidential Honors List, students must be registered for and complete at least 12 semester hours of credit and have a 4.0 grade point average for the term. Students who register for and complete at least 12 semester hours of credit and who attain a grade point average of at least 3.6 are included in the Dean’s List for the term. Superior scholastic achievement may be further recognized by election to membership in appropriate national honorary societies.

Transfer Credits
Collegiate coursework earned at postsecondary institutions that are fully accredited (or in candidacy status) by regional accrediting associations will be considered for transfer to UAB and may be applied toward the fulfillment of degree requirements.

Courses Taken as a Transient Student
To take a course at another institution while enrolled as a degree-seeking student at UAB, a student must submit a Transient Student Request via BlazerNET prior to enrolling in the course. The student must check with his/her academic advisor to determine whether the course is transferrable and will be applicable toward a degree at UAB. Further, the student must be in good academic standing (i.e., has a minimum 2.0 GPA at UAB).

Alternative Credit Opportunities
In some instances academic credit may be awarded for work done in a format other than a college course. Credits earned in this way are recorded on the transcript with a grade of P. Such credits may not be used in repeating a course and may not be awarded for work equivalent to a course that is a prerequisite to a course already taken for credit. No more than 45 semester hours of alternative credit may be applied toward a degree.

Opportunities for earning credit outside the normal course format include:

Advanced Placement (AP)
The amount of credit awarded and the examination score required are stated in the current policy. To determine which tests are eligible for UAB credit please see the Advanced Placement Credit Table (http://catalog.uab.edu/undergraduate/academicstudentresources/progresstowardadegree/apcredit).

College Level Examination Program (CLEP)
The CLEP General Examination must be taken before 15 semester hours of college work have been completed. The subject-area examinations are assigned credit as listed in the UAB CLEP Policy statement. For more information on CLEP testing schedules, fees and study guide information please contact the UAB Testing Office http://www.uab.edu/testing or call (205) 934-5503. To determine which tests are eligible for UAB credit please see the College Level Examination Program Credit Table (http://catalog.uab.edu/undergraduate/academicstudentresources/progresstowardadegree/clep).

International Baccalaureate Credit (IB)
Academic credit may be awarded for scores of five or higher on IB standard-level and higher-level examinations. To determine which tests are eligible for UAB credit please see the International Baccalaureate Credit Table (http://catalog.uab.edu/undergraduate/academicstudentresources/progresstowardadegree/ib).

Credit by Examination (CBE)
A degree-seeking student may petition to obtain credit for a course by taking an examination; however, not all programs will accept CBE. It is the student’s responsibility to verify the applicability of CBE courses for major/minor requirements. The relevant department must agree to create and grade the examination. If a student takes CBE in a course that he/she has already taken for credit, the grade for CBE will not replace the grade for the previous course. The fee for CBE is based on the current rate of tuition according to level (undergraduate/graduate) and residency status.

Credit by Portfolio (CBP)
A degree-seeking student may petition to receive credit for a course on the basis of a portfolio of information documenting knowledge of the course material. The chair of the appropriate department and dean of the school make the final decision on acceptability of the materials for credit. The fee for CBP is based on the current rate of tuition according to level (undergraduate/graduate) and residency status.

Non-collegiate Courses
Credit may be awarded for non-collegiate courses in accordance with American Council on Education recommendations and approval of the appropriate department chair and dean.

Credit for Military Experiences
UAB evaluates military service and educational experiences completed by active-duty military service and Coast Guard
personnel. UAB is an institutional member of Service Members’ Opportunity Colleges.

Dante’s Subject Standardized Tests (DSST)
The DSST, prepared by the Chauncey Group, is a nationally recognized credit by examination program that awards college credit for courses taken by examination. DSST Examinations are scheduled individually, by appointment. To determine which tests are eligible for UAB credit please see the DANTES Subject Standardized Test Credit Table (http://catalog.uab.edu/undergraduate/academicstudentresources/progresstowardadegree/dsst).

Cooperative Exchange Programs

Birmingham Area Consortium for Higher Education (BACHE)

UAB, Birmingham-Southern College, Miles College, the University of Montevallo, and Samford University have established the Birmingham Area Consortium for Higher Education (BACHE) to expand educational opportunities for their students. Please visit the web site http://www.uab.edu/bache/ for more information on BACHE.

The University of Alabama System

UAB students may also enroll in courses at the University of Alabama and the University of Alabama in Huntsville through the University of Alabama System Cooperative Exchange Program. Any full-time, degree-seeking UAB student who is in good academic standing may, with written permission from his/her academic advisor and dean, and at no additional charge, take a course at another cooperative exchange institution if it is not offered at UAB and it is deemed to be beneficial to the student’s overall educational program. All courses eligible to be taken through the cooperative exchange programs must be articulated by UAB prior to the student’s registration. Credit for work completed under the cooperative programs will be posted on the student’s record as UAB credit.

National Student Exchange (NSE)
The National Student Exchange (NSE) is a consortium of 190 member colleges and universities in the U.S., Canada, and Puerto Rico. UAB was accepted as a member in July, 2007. Students may take courses at a member institution for one or two terms, depending upon that school’s NSE restrictions.

Once these study away courses have been approved by the UAB Office for Study Away Director and by the student’s academic advisor, chair of the department in which an equivalent course would be offered and the chair of the department responsible for the student’s major; and upon successful completion of said program and receipt of the official transcript from the host institution, course grades and credits will be treated as UAB credit and will be posted as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSE 100-199</td>
<td>SA Level I Special Topics</td>
</tr>
<tr>
<td>NSE 200-299</td>
<td>SA Level II Special Topics</td>
</tr>
<tr>
<td>NSE 300-399</td>
<td>SA Level III Special Topics</td>
</tr>
<tr>
<td>NSE 400-499</td>
<td>SA Level IV Special Topics</td>
</tr>
</tbody>
</table>

NOTE: NSE course prefixes will also be designated with the letter A or B (NSEA or NSEB) to indicate the enrollment/payment method chosen by each student. A (0 tuition/fee hours) indicates that students pay tuition and fees to host institution and B (0 to 18 tuition/fee hours) indicates that students pay tuition and fees to UAB.

Conduct and Complaints

Student Conduct

The university expects mature and honorable behavior from every student and reserves the right to take appropriate disciplinary action when such behavior is not forthcoming.

Academic Conduct

All UAB students are expected to be familiar with the UAB Academic Honor Code as well as any honor codes that are specific to their schools or disciplines.

The code represents a commitment to integrity in the academic community and a respect for an individual’s educational endeavors:

I have read and, by choosing to become a member of the UAB academic community, accept the UAB Academic Honor Code. I understand that violation of this code will result in penalties as severe as expulsion from the university. I promise and confirm that I will not, at any time and under any circumstances, involve myself with abetting, cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at the University of Alabama at Birmingham.

The UAB Academic Honor Code

UAB expects all members of its academic community to function according to the highest ethical and professional standards. Students, faculty, and the administration of the institution must be involved to ensure this quality of academic conduct. Academic misconduct undermines the purpose of education. Such behavior is a serious violation of the trust that must exist among faculty and students for a university to nurture intellectual growth and development. Academic misconduct can generally be defined as all acts of dishonesty in an academic or related matter.

Academic dishonesty includes, but is not limited to, the following categories of behavior:

ABETTING is helping another student commit an act of academic dishonesty. Allowing someone to copy your quiz answers or use your work as their own are examples of abetting. CHEATING is the unauthorized use or attempted use of unauthorized materials, information, study aids, the work of others, or computer-related information.

PLAGIARISM means claiming as your own the ideas, words, data, computer programs, creative compositions, artwork, etc., done by someone else. Examples include improper citation of referenced works, the use of commercially available scholarly papers, failure to cite sources, or copying another person's ideas.

FABRICATION means presenting falsified data, citations, or quotations as genuine. MISREPRESENTATION is falsification, alteration, or the
misstatement of the contents of documents, academic work, or other materials related to academic matters, including work substantially done for one class as work done for another without receiving prior approval from the instructor.

Violations of the UAB Academic Honor Code are punishable by a range of penalties, from receiving a failing grade on an assignment to an F in the course to dismissal. Any course grade of F for academic misconduct supersedes any other grade or notation for that class. Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student’s performance prior to withdrawal if the violation is substantiated.

**Procedure for Suspected Violation**

In the event of a suspected violation of the Academic Honor Code, UAB follows this procedure:

1. Upon reaching the conclusion that academic dishonesty may have occurred and that action is warranted, the instructor should inform the student of the charge as soon as possible. The student has the right to hear the instructor’s reasons for making the charge, to inspect all relevant evidence in the instructor’s possession, and to respond to the charge. Based on the student’s response and all the evidence, the instructor will determine if a penalty is appropriate. If a penalty is deemed appropriate, the instructor will inform the student of the action to be taken. If the student is not in agreement with the findings or the penalty, the instructor will provide the student with a written statement of the action taken and the basis for it. A copy of this letter will be sent to the chair of the department.

2. Within two weeks of this notification of a judgment of academic dishonesty, the student may appeal the instructor’s decision by letter to the chair of the department or his/her designated representative. The chair, acting expeditiously, should take testimony from the student, the instructor, and all appropriate witnesses and make a decision. If the chair reverses the finding of academic misconduct, the instructor must reexamine the work in question and assign credit without prejudice. In the event that the chair is the instructor in the course, the dean will replace the chair in the appeal process.

3. In cases where a grade of F is assigned in the course and the student has utilized the appeal process described above (in section 2), the student has two weeks to appeal the decision by letter to the dean of the school responsible for the course. The dean should acknowledge receipt of the student’s appeal and inform the student of the course of action within 10 working days of the date the appeal is received in the dean’s office. At the dean’s discretion, an advisory panel may be appointed to study the appeal and make a recommendation to the dean. However, it is the responsibility and prerogative of the dean alone to make, in a timely manner, the final decision. The decision of the dean is final.

4. In cases where the final decision concerning an academic misconduct charge is an F for the course, a letter to this effect will be sent to the Office of the Registrar and be kept on file. The course repeat policy will not apply to course grades resulting from instances of academic misconduct. In these cases, the grades of F received will be computed in the UAB grade point average.

A student who has received the grade of F for two instances of academic misconduct will be expelled from the university. Under certain circumstances, a student may be expelled on the first offense. The student will be duly informed of the pending expulsion and will be provided the opportunity to be heard. The student has two weeks after notification to request in writing a hearing with the Office of the Registrar. Students expelled from UAB for academic misconduct will have that noted on their transcripts.

In addition, students should consult the policies of the school/program in which they are enrolled to determine school/program guidelines and penalties regarding academic misconduct and suspension for academic misconduct. Schools that suspend a student on the first offense may post penalties regarding academic misconduct and suspension for academic misconduct. Schools that suspend a student on the first offense may post penalties regarding academic misconduct and suspension for academic misconduct.

A student suspended from a UAB school for academic misconduct will have a hold placed on his/her registration and will not be permitted to enroll in another UAB school without that school’s permission. Some UAB programs have policies preventing enrollment of students with past academic misconduct offenses.

Note that individual schools may have academic misconduct rules in addition to the above.

**Non-academic Conduct**

The university is a community of scholars and learners; therefore, all participants are expected to maintain conduct which:

1. Facilitates the institution’s pursuit of its educational objectives.
2. Exhibits a regard for the rights of other members of the academic community
3. Provides safety to property and persons.

Through appropriate due process procedures, disciplinary action will be taken in response to conduct that violates these principles. A more detailed description of non-academic misconduct can be found in the student handbook, Direction, available online http://www.uab.edu/handbook/. It is the student’s responsibility to be fully aware of the policies and procedures described in Direction. The Office of Student Life has the responsibility for coordinating policies and procedures regarding students’ non-academic misconduct.

**Student Complaints**

**Academic Matters**

Judgments on academic matters are most appropriately made by individuals with expertise in the particular academic discipline involved. For this reason, complaints by students on academic matters are the responsibility of the department and school involved. Normally, such complaints can be resolved quickly through discussion with the faculty directly involved. In rare situations where such resolution does not occur, the student should contact the chair of the appropriate academic department to file a formal grievance. The student’s grievance should be submitted in writing and accompanied by any appropriate documentation. Grievances should be submitted at the earliest possible time. Consideration will not be given to any grievance submitted later than the end of the term immediately following the term in which the matter in question arose. The department should acknowledge the date the grievance is received and provide notice to the student of when an answer may be expected. It is the responsibility of the department chair to provide an answer to the student within 10 working days. If the matter cannot be settled within the department, the student has 10 working days from the day the department’s response is received to appeal to the dean of the school in which the department is located. The dean should acknowledge receipt of the student’s appeal and inform the student of the course of action within 10 working days of the date the appeal is received.
in the dean's office. At the dean's discretion, an advisory panel may be appointed to study the disagreement and make a recommendation to the dean. However, it is the responsibility and prerogative of the dean alone to make, in a timely manner, a decision on any academic disputes which have not been resolved at lower levels, and the decision of the dean is final.

**Non-academic Matters**

When complaints on non-academic matters cannot be settled by the persons directly involved, a written complaint should be forwarded to the appropriate office. If the administrative officer is unsuccessful in resolving the complaint, it may then be forwarded in writing to the Provost or a designee for further consideration. For specific information concerning the procedures and processes for non-academic complaints and grievances, contact the Judicial Officer or visit the following web site http://www.uab.edu/students/services/student-engagement/student-conduct.
Completion of a Degree

Requirements

Baccalaureate Degrees

Requirements for the baccalaureate degree at UAB include at least 120 semester hours of appropriately distributed courses, a UAB GPA of 2.00, a 2.00 GPA on all college work attempted (Higher Education grade point average), and satisfaction of the Core Curriculum, major, minor (if required), and residency requirements, along with all other criteria specified by the school or department governing the major.

Students are subject to the catalog policies in effect at the time of their most recent admission as a degree-seeking student, with the following exceptions. Seven years after the date of their first enrollment as a degree-seeking student, policies of the catalog currently in effect become applicable. The student who is not enrolled at UAB for 12 consecutive months must meet the requirements of the catalog in effect at the time of re-enrollment. For courses required for the major or minor, the administering department(s) may establish written policies for the recertification of courses taken more than seven years previously.

Residency

At least 25 percent of the total semester hours required for graduation, including at least 21 of the last 30, must be taken at UAB. Courses taken as alternative credit or as a non-degree student (excluding post-baccalaureate students) may not be used to satisfy the residency requirement. A minimum of nine semester hours required for the major (at or above the 400 level) must be completed at UAB. Individual departments may have additional requirements.

Total Credits and Averages

The minimum total credit hours required for a baccalaureate degree is 120 semester hours. The student must have a higher education grade point average of at least 2.00 (C) in all credit hours attempted at all institutions including UAB and an average of at least 2.00 (C) in all credit hours attempted at UAB.

Distribution of Credits

In addition to the overall requirements mentioned above, there are important requirements for the distribution of credits. All programs of study leading to the baccalaureate degree have as an essential component a Core Curriculum. Students majoring in the Schools of Business, Education, Engineering, Nursing, and Health Professions satisfy Core Curriculum requirements in addition to specific school requirements and requirements in their chosen major(s). In the College of Arts and Sciences students meet Core Curriculum requirements, requirements for a major specialization, and any requirements for a minor, specialization or concentration, if required.

Major

Requirements for majors vary and can be found in the sections of this catalog on the specific academic unit responsible for the major. A minimum C average in the major is required for graduation. Furthermore, the academic unit responsible for the major may require the student to repeat, or otherwise compensate for, any course required for the major in which a grade below C was earned. Majors should be declared or changed online (https://www.uab.edu/students/academics/item/833-changing-majors). Some majors are subject to additional admission requirements and enrollment limitations.

Double Major

Students who wish to double major must maintain an affiliation with one school and graduate under that school’s core curriculum and major requirements. In addition, the student must complete the requirements for the second major including all prerequisites. It is important for students to maintain contact with advisors of both majors so that requirements are completed for both majors.

Dual/Multiple Degrees

A bachelor’s degree is based on at least 120 semester hours of coursework. For each additional degree, a student must complete at least 30 semester hours of work over and above the work done for the first degree. As with the first degree, work done for each additional degree must include any necessary prerequisites for the new major and all major requirements. The residency requirement must be met for each degree.

Second Bachelor’s Degree

After graduating with a bachelor’s degree, a student may earn a second bachelor’s degree by completing in residence, with an average of C or better, at least 30 semester hours of work taken subsequent to awarding of the first degree. Work done for the second degree must include any necessary prerequisites for the new major and all major requirements. The first degree, whether earned at UAB or another regionally accredited institution, must be based on at least 120 semester hours of fully accredited work. No minor is required for the second degree. A student interested in earning a second degree is required to have the program of study approved by the school in advance.

Minor

The availability of minors is indicated in the sections of this catalog on the various schools. The course requirements for the minor are specified in the catalog section for the department offering the minor. The department offering the minor may require the student to repeat, or otherwise compensate for, any course required for the minor in which a grade below C was earned. Whether a minor is required for the second degree is determined by the school in which the major resides.

Individually Designed Majors and Minors

Students with specific career goals or with unique intellectual objectives may propose majors and minors designed to meet their individual academic needs. The Individually Designed Major requires a minimum of 40 semester hours in the major, of which at least 20 semester hours must be in courses numbered at or above 300 and approved for use towards a major, with a minimum of a C average. Students are not permitted to apply the same individual course(s) to satisfy both a minor and a major. In addition, students must prepare a rationale for a nonstandard major-level course of study, complete Core Curriculum requirements, and complete any additional requirements set by the school in which the degree will be awarded. The Individually Designed Minor requires completion of 21 semester hours, of which nine semester hours must be in courses numbered at or above 300, with a minimum of a C average. The Individually Designed Major or Minor must be reviewed and approved by the departments involved, by the dean of the school in which the degree will be awarded, and by the Office of the Registrar. For advising on program development and approval procedures, consult
Limitations on Some Types of Credit

For some types of credit, there are limitations on the amount that can be applied toward the minimum hours required for a baccalaureate degree (usually 120 semester hours).

1. For credits transferred from a two-year college, the limit is no more than one-half the number required for a baccalaureate degree, provided that the work is freshman (100) or sophomore (200) level.

2. For alternative work, including Advanced Placement, College Level Examination Program, credit by examination, evaluation of non-collegiate-sponsored courses, credit for military services courses, International Baccalaureate credit, and credit by portfolio, the limit is no more than 45 semester hours.

Bachelor's Degree with Honors

The Higher Education grade point average is used in conferring academic honors at graduation and is based on all college work attempted. Honors designations are conferred according to the following GPA Ranges:

<table>
<thead>
<tr>
<th>GPA Range</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50 - 3.69</td>
<td>cum laude</td>
</tr>
<tr>
<td>3.70 - 3.89</td>
<td>magna cum laude</td>
</tr>
<tr>
<td>3.90 or above</td>
<td>summa cum laude</td>
</tr>
</tbody>
</table>

Procedures for Applying for a Degree

Students are advised to file an online application for degree at least two terms prior to completing work for a baccalaureate degree. This will allow time for the application to be processed and completion of degree requirements to be verified. The absolute deadline to apply for degree is the tenth day of the term in which the student plans to graduate. Online applications are available at http://www.uab.edu/commencement/degree-applications.

Graduation

Official UAB graduation ceremonies are held in May for graduates of the preceding spring semester and in December for graduates of the preceding summer term and fall semester. Graduates are listed in the commencement program. Students who have completed the requirements for baccalaureate degrees are urged to attend.

Although degrees are officially conferred in April and December, students receive their diplomas approximately four weeks after the end of the regular term in which they complete their degree requirements, provided the application for degree is submitted by the published deadline. Please visit the commencement website for additional information http://www.uab.edu/commencement.
The UAB Undergraduate Academic Experience

Shared Vision for a UAB Graduate

The Shared Vision for a UAB Graduate reflects high expectations in the areas of Communication, Knowledge, Problem-Solving, and Citizenship.

Communication - A UAB graduate

• Participates effectively in the world of ideas and information.
• Reads with comprehension, attention to detail, and an awareness of context, tone, and interconnections with other texts, life experiences, and public events.
• Writes correctly and effectively in response to specific needs and for diverse audiences and contexts.
• Speaks effectively as determined by audience, setting, and circumstances.
• Uses information technology effectively for professional communication.

Knowledge - A UAB graduate

• Possesses a depth and breadth of knowledge sufficient for informed decision-making.
• Demonstrates substantial knowledge in a disciplinary major.
• Differentiates among methodologies, major ideas and figures, and specific information or issues relevant to the sciences and humanities.
• Uses effectively the technology appropriate for one’s discipline.

Problem-Solving - A UAB graduate

• Collects and evaluates data and analyzes complex issues, using appropriate methods.
• Demonstrates critical thinking skills by synthesizing information, making reasonable arguments, and arriving at logical conclusions.
• Demonstrates quantitative reasoning by interpreting data in multiple formats and applying quantitative methods to solve complex problems.
• Demonstrates the ability to achieve goals through collaboration.

Citizenship - A UAB graduate

• Is aware of contemporary issues and prepared to engage responsibly in the community.
• Understands civic responsibility and engages in informed decision-making with respect to social and political issues.
• Recognizes that values and ethics are integral to one’s academic, personal, and professional life.
• Respects the significant role of diversity in the contemporary world.

The Shared Vision for a UAB Graduate is achieved through the UAB Undergraduate Academic Experience, which begins with the first year experience and the core curriculum; continues with major courses, elective courses, and perhaps courses required for a minor or certificate; and culminates in a capstone experience.

First Year Experience

Every UAB first year student will share a common foundation for learning, whatever their majors or professional goals. This common foundation is found in the Discussion Book and the First Year Experience (FYE) course.

Discussion Book

Since 2005, UAB has selected an annual UAB Discussion Book as one focal point for uniting the students, faculty, and staff of this research extensive campus. The Discussion Book always has literary merit, raises complex ethical questions, is relevant to contemporary social issues, and broadens the reader’s understanding of diversity in a meaningful way. It also serves as a means to introduce entering freshmen to the concept of difficult dialogues and learning outcomes central to our goals for undergraduate education.

Students are able to purchase the book at the Barnes & Noble UAB Bookstore during New Student Orientation. The day before fall classes begin, President Watts welcomes all new students into the UAB family. After a presentation usually by the discussion book author, students participate in small group discussions facilitated by the President, Provost, deans, chairs, faculty, and staff of UAB.

The UAB Discussion Book is the focus of a monthly Discussion Book Dialogue series, off-campus events, and various campus activities scheduled during the following academic year. Developed as part of UAB’s Quality Enhancement Plan (http://main.uab.edu/Sites/DOE/OEP), the UAB Discussion Book project promotes civic engagement, respectful dialogue about often controversial issues, and more knowledgeable participation in a diverse global society.

First Year Experience Course Requirement

Students entering UAB with fewer than 24 hours of college credit must enroll in and pass a first year experience (FYE) course in their first 24 credit hours at UAB.

FYE courses are the gateway to undergraduate education at UAB. FYE courses improve student success by helping to bridge the gap between high school experiences and university expectations and enhance successful progress towards graduation by establishing the foundations for academic achievement and holistic development. FYE courses include:

• Freshman Learning Communities
• UNIV 101 The University Experience
• School or Department focused FYE courses, which are the required option for certain majors (check catalog requirements).

Core Curriculum Requirements

Sometimes called general education courses, the core curriculum is a selection of required and elective courses that together promote six competencies which build the foundation for attainment of the Shared Vision for a UAB Graduate.

A graduating student should be able to demonstrate the following core competencies:

• Reading and writing skills sufficient to ensure access to information and ideas in the institution’s curriculum as well as in society at large.
• An ability to make aesthetic judgments in the arts, literature, and humanities based on relevant historical, social, or philosophical contexts.
• The ability to collect and evaluate information within the context of the scientific method and to use this ability to further one’s understanding of the natural world.
• The ability to apply mathematical skills and quantitative reasoning to solve problems and interpret information.
• The ability to reason and evaluate information within the context of the social and behavioral sciences and to use this ability to further one’s understanding of the social, economic, and political environment.
• Knowledge of contemporary and/or historical issues.

Who is required to fulfill the Core Curriculum Requirements?

• First time college freshmen who have no credit for college work (excepting credit earned while still enrolled in high school).
• Those returning UAB students or transfer students who are enrolling as a degree student after an absence from college of more than 12 months.
• Students who enrolled for the first time in any institution of higher education in Fall 1998 or later and who subsequently transferred to the University of Alabama at Birmingham.

Any student with a valid articulation contract from an Alabama two-year school will be able to enroll under the terms of the contract. Contracts prior to Fall 1998 must have been submitted to UAB’s Office of Admission according to the procedures in place at the time.

Since Fall Term 2000, all undergraduate students entering UAB have been subject to the 1998 Core Curriculum requirements.

Can One Satisfy Core Curriculum Requirements with Alternative Credit?

Students may satisfy certain Core Curriculum requirements by presenting credit earned through the following: Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP), and Credit by Examination (CBE). Students with AP, IB, or CLEP credit must have official documents sent to the Office of Enrollment Management, ATTN: Alternative Credit, 1605 Building, 1605 11th Avenue South, (205) 934-5503, for evaluation and acceptance before credit can be posted on the UAB transcript.

What Courses Satisfy Core Curriculum Requirements?

Core curriculum requirements are divided into four areas, and all students must fulfill requirements in each area. Specific school restrictions for each area are listed below the description of the Core Curriculum Requirements. See the appropriate section in this catalog for specific major requirements in each area.

Refer to Core Curriculum (p. 294)

What is the relationship between the core competencies and the core curriculum courses?

The matrix below identifies how specific core curriculum courses introduce or reinforce the desired core competencies which build the foundation for attainment of the Shared Vision for a UAB Graduate.

Faculty who teach courses in the disciplines have identified these core competencies as essential for success in upper-division major courses.

UBA has chosen to place special emphasis on three essential competencies embedded in the six core competencies identified below. These targeted competencies are writing, quantitative literacy, and ethics & civic responsibility. Core courses which intentionally provide specific instruction in, practice of, and assessment of writing, quantitative literacy, and ethics & civic responsibility are identified below with a W, QL, and/or ECR.

The UAB Core Curriculum Matrix

Core Competency

Demonstrate reading and writing skills sufficient to ensure access to information and ideas in the institution’s curriculum, as well as in society at large.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>BY 123 Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 124 Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>EH 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>EH 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>EH 216 Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENV 109 Laboratory in Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td>FR 101 Introductory French I</td>
<td>4</td>
</tr>
<tr>
<td>GN 101 Introductory German I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHS 101 Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>SPA 101 Introductory Spanish I / QL</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Curriculum Courses In Which Practiced and Reinforced</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 200 Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ARH 204 Renaissance through Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>EH 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>EH 217 World Literature I: Before 1660</td>
<td>3</td>
</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 221 British and Irish Literature I: Before 1800</td>
<td>3</td>
</tr>
<tr>
<td>EH 222 British and Irish Literature II: 1800-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 223 American Literature I: Before 1865</td>
<td>3</td>
</tr>
<tr>
<td>EH 224 American Literature II: 1865-Present</td>
<td>3</td>
</tr>
<tr>
<td>FR 102 Introductory French II</td>
<td>4</td>
</tr>
<tr>
<td>FR 201 Intermediate French I</td>
<td>3</td>
</tr>
<tr>
<td>FR 202 Intermediate French II</td>
<td>3</td>
</tr>
<tr>
<td>GN 102 Introductory German I</td>
<td>4</td>
</tr>
<tr>
<td>GN 201 Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>GN 202 Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>GN 204 Readings in German Literature</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115 Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 116 Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120 Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203 Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SPA 102 Introductory Spanish II</td>
<td>4</td>
</tr>
<tr>
<td>SPA 201 Intermediate Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPA 202 Intermediate Spanish II</td>
<td>3</td>
</tr>
</tbody>
</table>
### Core Competency

**Demonstrate an ability to make aesthetic judgments in the arts, literature, and humanities based on relevant historical, social, or philosophical contexts.**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
<tr>
<td>ARH 101: The Art Experience</td>
<td>3</td>
</tr>
<tr>
<td>EH 216: Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>MU 120: Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100: Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115: Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120: Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203: Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>THR 100: Introduction to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THR 105: Introduction to Dance</td>
<td>3</td>
</tr>
</tbody>
</table>

### Core Competency

**Demonstrate the ability to reason and evaluate information within the context of the social and behavioral sciences and to use this ability to further one's understanding of the social, economic, and political environment.**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
<tr>
<td>AST 101: Astronomy of the Universe</td>
<td>3</td>
</tr>
<tr>
<td>AST 102: Astronomy of Stellar Systems</td>
<td>3</td>
</tr>
<tr>
<td>AST 103: Astronomy of the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>AST 105: Extranrestrial Life</td>
<td>3</td>
</tr>
<tr>
<td>BY 101: Topics in Contemporary Biology</td>
<td>3</td>
</tr>
<tr>
<td>CH 105: Introductory Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 107: General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 115: General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>PH 201: College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 221: General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHS 101: Physical Science</td>
<td>4</td>
</tr>
</tbody>
</table>

### Core Competency

**Demonstrate the ability to collect and evaluate information within the context of the scientific method and to use this ability to further one's understanding of the natural world.**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
<tr>
<td>AST 111: Astronomy of the Universe Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AST 112: Astronomy of Stellar Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AST 113: Astronomy of the Solar Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AST 115: Extranrestrial Life Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BY 101: Topics in Contemporary Biology</td>
<td>3</td>
</tr>
<tr>
<td>BY 102: Topics Contemporary Biology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

### Core Competency

**Demonstrate the ability to apply mathematical skills and quantitative reasoning to solve problems and interpret information.**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
<tr>
<td>MA 105: Pre-Calculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MA 106: Pre-Calculus Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MA 107: Precalculus Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MA 109: Survey of Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MA 110: Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120: Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHS 101: Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>SPA 201: Intermediate Spanish I</td>
<td>3</td>
</tr>
</tbody>
</table>

### Core Competency

**Demonstrate the ability to reason and evaluate information within the context of the social and behavioral sciences and to use this ability to further one's understanding of the social, economic, and political environment.**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
<tr>
<td>AAS 200: Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101: Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 106: Introductory Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ENV 108: Human Population and the Earth's Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENV 109: Laboratory in Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td>ITS 101: Introduction to International Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100: Introduction to Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>
Core Competency

Demonstrate knowledge of contemporary and/or historical issues.

Requirements

Core Curriculum Courses in Which Practiced and Reinforced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 115</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 116</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 125</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 101</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>WS 100</td>
<td>Introduction to Women's and Gender Studies</td>
<td>3</td>
</tr>
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</table>

Core Curriculum Courses in Which Introduced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 200</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 106</td>
<td>Introductory Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 120</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CMST 105</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENV 108</td>
<td>Human Population and the Earth s Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENV 109</td>
<td>Laboratory in Environmental Science</td>
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</tr>
<tr>
<td>HY 101</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HY 104</td>
<td>World History to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HY 105</td>
<td>World History 1600 to the Present</td>
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</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
<td>3</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>ITS 101</td>
<td>Introduction to International Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 116</td>
<td>Bioethics</td>
<td>3</td>
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<tr>
<td>PHL 120</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 125</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>WS 100</td>
<td>Introduction to Women's and Gender Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Curriculum Courses in Which Practiced and Reinforced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 217</td>
<td>World Literature I: Before 1660</td>
<td>3</td>
</tr>
<tr>
<td>EH 218</td>
<td>World Literature II: 1660-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 221</td>
<td>British and Irish Literature I: Before 1800</td>
<td>3</td>
</tr>
<tr>
<td>EH 222</td>
<td>British and Irish Literature II: 1800-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 223</td>
<td>American Literature I: Before 1865</td>
<td>3</td>
</tr>
<tr>
<td>EH 224</td>
<td>American Literature II: 1865-Present</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PSC 221</td>
<td>American State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>PY 212</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 245</td>
<td>Contemporary Social Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

Writing, quantitative literacy (QL), and ethics & civic Responsibility (ECR) are introduced in the freshman year, reinforced in a range of mid-curricular courses designated as writing, QL, and/or ECR courses (identified as such in course listings under each program), and integrated into the capstone course in discipline-specific ways.

Writing (W)

Effective communication skills are fundamental to competent functioning across the undergraduate curriculum and in life beyond graduation. Improving writing contributes to the development of other communication competencies, such as reading and public speaking. Writing is crucial to critical thinking and effective problem-solving, as well as for the communication of knowledge. The ability to write effectively is a key skill that contributes to professional advancement, successful personal relationships, and responsible civic involvement. Writing designated courses are shown with a “W” designation in their course description. To foster this essential competency, every program ensures that its majors take a minimum of two W courses between the First Year Experience and the Capstone.

Learning Outcomes for Writing include:

1. Respond to an assigned topic in a way that shows responsible concern for an identified audience.
2. Write a logical argument that makes an unambiguous claim, marshals reasonable and appropriate evidence, and takes seriously the perspectives of others by fairly presenting and responding to alternative claims.
3. Incorporate external sources pertinent to the argument and document such sources accurately and appropriately, demonstrating academic integrity when referencing the ideas of others.
4. Demonstrate an appropriate level of competence in grammar, usage, and mechanics.
5. Accurately use the writing conventions appropriate to the discipline.

Quantitative Literacy (QL)

Quantitative literacy is fundamental to solving quantitative problems that occur in school, life, and work, and in communicating solutions to those problems to others. Quantitative literacy builds on mathematics, but unlike “pure math” it emphasizes the application of quantitative methods in a wide variety of contexts. Quantitatively literate students are able to understand and, as necessary, interpret a problem in quantitative terms and then solve it using appropriate methods. Like verbal literacy, quantitative literacy is critical to effective citizenship, communication, and personal and social responsibility. Quantitative Literacy courses are shown with a “QL” designation in their course description. To foster this essential competency, every program ensures that its majors take a minimum of two QL courses between the First Year Experience and the Capstone.

Learning Outcomes for Quantitative Literacy:

1. Compute using arithmetic and algebra, work with units of measurement, translate verbal descriptions into mathematical form, and/or evaluate the reasonableness of quantitative assertions.
2. Interpret and construct tables, graphs, and schematic representations of relationships among objects and concepts.
3. Draw conclusions based on probabilities, costs, benefits, and risks.
4. Use quantitative evidence as a basis for reasoning, problem-solving, and argument
5. Design empirical research, evaluate research designs, and analyze data to draw conclusions about research hypotheses.
6. Communicate quantitative information using numbers and words appropriate to the audience.

Ethics and Civic Responsibility (ECR)

The role of a university is to prepare students to function effectively and engage responsibly in both the academic community and post-graduation life. Ethical decisions should be academic, personal, and professional goals for everyone. Effective and responsible living depends upon the ability of individuals to strive for excellence, to make informed and ethical decisions, to accept responsibility for one’s choices, and to practice good citizenship as part of multiple larger social units. Ethics and Civic Responsibility courses are shown with an “ECR” designation in their course description. To foster this essential competency, every program ensures that its majors take a minimum of two ECR courses between the First Year Experience and the Capstone.

Learning Outcomes for Ethics and Civic Responsibility:

1. Understand and practice ethical reasoning and decision-making
2. Be knowledgeable about contemporary events and issues
3. Understand civic responsibility
4. Understand the role and value of diversity

Capstone Requirement

UAB’s undergraduate programs culminate in a capstone requirement. The capstone provides a summative opportunity for students to draw upon, synthesize, and apply what they have learned to an original project and/or real life application. Depending on the discipline, the capstone may involve such components as collaborative projects, internships, service learning, fieldwork, independent research, community outreach, and/or thesis writing. In every case capstones include a set of well-defined learning outcomes, significant writing, and integration of discipline-specific competencies in quantitative literacy and in ethics and civic responsibility. Most importantly the capstone provides an enriching bridge experience for students between their undergraduate education and post-graduation lives.

Freshman students entering UAB in fall 2009 or after must successfully complete the capstone course or experience required by their major program or school in order to graduate. All students graduating in 2013 or later must complete a capstone requirement.
Student Academic Engagement

The Office for Student Academic Engagement is comprised of three programs that are designed to promote student success through enriching experience for undergraduate students across the campus. The Office for Study Away provides international and domestic student exchange opportunities. The UAB Office for Service Learning helps plug students into meaningful service experiences as a way of earning credit. The UAB Office for Undergraduate Research assists students in their research endeavors by pairing them with research mentors in the UAB and Birmingham community.

Office for Study Away (http://www.uab.edu/studyaway)

Coordinator: Megan Talpash

The UAB Office for Study Away offers students the opportunity to complement and enhance their programs of study by living, studying, and/or volunteering outside the Birmingham, Alabama area.

Mission

The UAB Office for Study Away’s mission is to prepare our students to be active and responsible global citizens through academically sound international and domestic educational exchange opportunities.

Vision

Our vision is to be recognized as a quality provider of innovative & engaging educational exchange experiences in a variety of multicultural settings. We transform our students into catalyst for change in local, national, and global arenas.

What is Study Away?

Study Away is defined as any academically sound program of study which takes place in a foreign location which shall be defined as any location outside the boundaries of the 50 United States of America. U.S. Protectorates such as the U.S. Virgin Islands and Puerto Rico are included in the definition of such foreign locations. Study Away is also defined as any academically sound program of study which takes place through domestic exchange programs such as the National Student Exchange (http://www.nse.org) or The Washington Center (http://www.twc.edu). Other similar programs may fall under this definition and may be approved on a case-by-case basis by the UAB Office for Study Away. These programs of study include but are not limited to undergraduate or graduate level coursework toward the completion of a degree program, internships and/or research projects carrying academic credit or which are a component of a degree program, field studies which are part of a particular class, clinical or observational externships which fulfill curricular requirements.

Eligibility

1. Good Academic Standing and at least Sophomore level.
2. Minimum Cumulative GPA of 2.7 or above (The UAB Office for Study Away will consider students with a lower GPA if the program to which the student is applying requires a lower minimum GPA.).

Types of Programs

International Reciprocal Exchanges

Programs for which UAB has an established affiliation agreement with a foreign university. Upon consultation with the UAB Office for Study Away Director and approval by their academic advisor, chair of the department in which an equivalent course would be offered and the chair of the department responsible for the student’s major; students may enroll in a combination of the following courses.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INAB</td>
<td>Study Away Arabic</td>
</tr>
<tr>
<td>INAH</td>
<td>Study Away Art History</td>
</tr>
<tr>
<td>INAN</td>
<td>Study Away Anthropology</td>
</tr>
<tr>
<td>INAR</td>
<td>Study Away Art History</td>
</tr>
<tr>
<td>INBY</td>
<td>Study Away Biology</td>
</tr>
<tr>
<td>INCH</td>
<td>Study Away Chinese</td>
</tr>
<tr>
<td>INEH</td>
<td>Study Away English</td>
</tr>
<tr>
<td>INGN</td>
<td>Study Away German</td>
</tr>
<tr>
<td>INHY</td>
<td>Study Away History</td>
</tr>
<tr>
<td>INIS</td>
<td>Study Away International Studies</td>
</tr>
<tr>
<td>INJP</td>
<td>Study Away Japanese</td>
</tr>
<tr>
<td>INME</td>
<td>Study Away Mechanical Engineering</td>
</tr>
<tr>
<td>INMG</td>
<td>Study Away Management</td>
</tr>
<tr>
<td>INMK</td>
<td>Study Away Marketing</td>
</tr>
<tr>
<td>INPE</td>
<td>Study Away Physical Education</td>
</tr>
<tr>
<td>INPS</td>
<td>Study Away Political Science</td>
</tr>
<tr>
<td>INPY</td>
<td>Study Away Psychology</td>
</tr>
<tr>
<td>INSP</td>
<td>Study Away Spanish</td>
</tr>
<tr>
<td>INTL</td>
<td>Study Away Special Topics</td>
</tr>
</tbody>
</table>

Note: Study Away International Reciprocal Program prefixes will begin with IN (to indicate that the course took place away) and a two-letter code such as ME (Mechanical Engineering), GN (German), SP (Spanish), etc. to indicate the subject area that was studied. Additionally, each of the aforementioned courses is listed at the 100, 200, 300, 400, and 500 levels. All courses are variable in the number of hours of credit (0-15 credit hours) students can receive based upon their enrollment at the host partner university. All INXX courses are repeatable.

Faculty-Led Short-Term Programs

UAB classes that are developed and taught by UAB faculty members. Faculty-led study programs are typically between two and four weeks in duration, with additional pre-departure and re-entry academic work.

3rd Party International Programs

Offer a large selection of study away programming to suit the particular needs of most students. Once these study away courses have been approved by the UAB Office for Study Away Director and by the student’s academic advisor, chair of the department in which an equivalent course would be offered and the chair of the department responsible for the student’s major; and upon successful completion of said program and receipt of the official transcript from the foreign institution, course grades...
and credits will be treated as Transfer Credit and will be posted as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTL 100-199</td>
<td>Study Away Level I Special Topics</td>
</tr>
<tr>
<td>INTL 200-299</td>
<td>Study Away Level II Special Topics</td>
</tr>
<tr>
<td>INTL 300-399</td>
<td>Study Away Level III Special Topics</td>
</tr>
<tr>
<td>INTL 400-499</td>
<td>Study Away Level IV Special Topics</td>
</tr>
<tr>
<td>INTL 500-599</td>
<td>Study Away Graduate Level I Special Topics</td>
</tr>
<tr>
<td>INTL 600-699</td>
<td>Study Away Graduate Level II Special Topics</td>
</tr>
</tbody>
</table>

National Student Exchange (NSE)

A consortium of 190 member colleges and universities in the U.S., Canada, and Puerto Rico. UAB was accepted as a member in July, 2007. Once these study away courses have been approved by the UAB Office for Study Away Director and by the student’s academic advisor, chair of the department in which an equivalent course would be offered and the chair of the department responsible for the student’s major; and upon successful completion of said program and receipt of the official transcript from the host institution, course grades and credits will be treated as UAB Credit and will be posted as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSE 100-199</td>
<td>Study Away Level I Special Topics</td>
</tr>
<tr>
<td>NSE 200-299</td>
<td>Study Away Level II Special Topics</td>
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<tr>
<td>NSE 300-399</td>
<td>Study Away Level III Special Topics</td>
</tr>
<tr>
<td>NSE 400-499</td>
<td>Study Away Level IV Special Topics</td>
</tr>
<tr>
<td>NSE 500-599</td>
<td>Study Away Graduate Level I Special Topics</td>
</tr>
<tr>
<td>NSE 600-699</td>
<td>Study Away Graduate Level II Special Topics</td>
</tr>
</tbody>
</table>

Note: NSE course prefixes will also be designated with the letter A or B (NSEA or NSEB) to indicate the enrollment/payment method chosen by each student. A (0 tuition/fee hours) indicates that students pay tuition and fees to host institution and B (0 to 18 tuition/fee hours) indicates that students pay tuition and fees to UAB.

The Washington Center (TWC)

Provides diverse, highly motivated interns to thousands of organizations in government, business and the non-profit sector. They contribute significantly to their placements and often prove to be of longer-term interest as prospective employees. More broadly, The Washington Center maintains a vital role in service to society as a whole, developing the workforce of the future and encouraging all of its participants to be informed, public-spirited and civically engaged. For this reason, The Washington Center has support from a growing array of states, federal agencies, corporations, foundations, and private donors. Once these study away courses have been approved by the UAB Office for Study Away Director and by the student’s academic advisor, chair of the department in which an equivalent course would be offered and the chair of the department responsible for the student’s major; and upon successful completion of said program and receipt of the official transcript from the host institution, course grades and credits will be treated as Transfer Credit and will be posted as follows:

TWC 300 Washington Center Internship

The full-time (minimum 35 hours per week) internship: Evaluation is based upon submission to TWC of student portfolio documents, agency supervisor evaluations (midterm and final) and evaluations by the student’s TWC’s program manager (initial and end). The student’s agency supervisor recommends a grade and TWC program supervisor gives an overall evaluation of the student’s work (including the portfolio) and recommends a final internship grade. (3 to 12 semester hours of credit.)

TWC 301 Washington Center Course

TWC evening course required of all interns: This course, taught by a qualified instructor at the master’s level or higher, requires a combination of regular attendance, active class participation, written work (research paper, essays, examinations, etc.) and class projects. Students are given a list of courses prior to arrival and indicate their choice of courses. Classes meet up to 3 hours each week and are held in TWC offices or other convenient locations. 3 semester hours of credit.

TWC 300L Washington Forum

The Washington Forum (required half-day academic programming): This includes student attendance at the Presidential Lecture Series, Congressional Speakers Series, Embassy Visit Program, briefings, tours, workshops and other activities. The purpose of The Washington Forum is to help all students better understand the world of the nation’s capital—its peoples and institutions, its political processes, the issues debated and the policies forged there—and the potential impact of these endeavors on the students’ future professional lives. (0 credit lab.)

TWC 302 Washington Center Academic Seminar

Academic Seminars (January, May and/or August Only) Academic seminars are short-term participatory learning programs that involve major speakers, site visits, small group discussion sessions, workshops and other planned activities allowing students to explore specific topics under the guidance of qualified faculty. Some programs have additional components, such as fieldwork assignments & mentor-for-a-day activities. Students are required to attend seminar sessions, complete reading requirements, complete a structured academic journal and prepare an essay. In the past few years, TWC has been presenting seminars called Inside Washington that focus on politics, the presidency, the Congress and the media. During presidential election years, TWC usually runs a series of seminars that focus on the presidential race in January, followed by programs on-site at the Democratic and Republican National Conventions, culminating with a special January program on the presidential inauguration. Enrollments in the January Seminars and Convention Programs are separate. (3 semester credits.)

Academic credit is awarded based on the evaluation provided by TWC.

Note: Students MUST arrange for a consultation with the UAB Study Away Director to discuss academic credit transfer issues to ensure the proper posting of coursework earned from each type of study away experience. These programs are available to any UAB student, but this broad availability does not guarantee that coursework will articulate to UAB or count toward completion of a degree. In all cases the UAB Office for Study Away works in tandem with the UAB Schools and Academic
Departments to provide a multitude of possible course equivalencies so that students can more smoothly integrate a study away experience into their degree program(s).

Application, enrollment circumstances, credit evaluation, credit transfer, and deadlines vary according to individual programs and are coordinated through the UAB Office for Study Away. Contact the UAB Office for Study Away Director at (205) 975-6611, or via the UAB Office for Study Away website at http://www.uab.edu/students/academics/study-away/ for further information concerning various programs, the resource library, references for peer consultation and academic advising, and financial aid applicability and contacts.

Programmatic Standards and Their Evaluation
In-line with our vision of being “a quality provider of innovative and engaging educational exchange experiences,” the UAB Office for Study Away is a current member of both the NAFSA: Association of International Educators (NAFSA) (http://www.nafsa.org) and the Forum for Education Abroad (Forum) (http://www.forumea.org). As such, UAB subscribes to the standards of good practice promulgated by each of these agencies. All study away programs are regularly evaluated by both students and staff. Students may be required to find alternatives for programs whose academic, safety or other practices fall short of UAB’s programmatic standards.

Study Away Grading Policy
Grade Assignments
Auditing of any UAB Study Away approved classes/courses/programs will not be permitted. This policy has been put into effect to ensure full participation by all students on such approved programs. This policy includes faculty-led, 3rd party, and reciprocal exchange programs.

For those programs in which a UAB faculty member is teaching a class, the faculty member/instructor will assign the final grade as is normally done for any regular UAB class taught on campus. See the Grading Policies and Practices (p. 61) section of the UAB Catalog of Undergraduate Programs.

In most cases letter grades shall be assigned. Assignment of a pass/fail grade will be left to the discretion of the faculty leader/instructor of the course and will be determined on a case-by-case basis.

In all cases, students must participate fully in all course activities and meet all stated course requirements. In cases where a student is receiving final grade evaluation from an approved institution, UAB will honor the U.S. equivalent of the final grade that is assigned by that host institution and posted to the official transcript documentation received from the host university. If grades are assigned by a UAB faculty member (Faculty-Led Programs), then students must request a change in grade from the faculty member in charge of the particular class for which the grade is being requested.

If grades are assigned by the host institution (3rd Party Programs, Reciprocal Exchanges, National Student Exchange, The Washington Center), students wishing to have a change of grade must request said change to the appropriate host university authority. UAB will only change grades based on the official transcript documentation received from the host university. If grades are assigned by a UAB faculty member (Faculty-Led Programs), then students must request a change in grade from the faculty member in charge of the particular class for which the grade change is being requested.

Posting of Grades
All grades earned by students while on any of the following study away programs will be posted to the UAB transcript as described below.

International Student Exchange/Study Abroad
UAB Students enrolled in an approved study abroad program are treated in one of three ways:

1. Coursework completed by students participating in third party programs are posted as transfer credit.  
2. Students participating in reciprocal exchange and are enrolled at UAB for tuition and enrollment verification purposes, and coursework earned at the exchange institution is posted as UAB credit with a course prefix of INxx  
3. UAB faculty-led courses are designated with SA following the course title

National Student Exchange
UAB Students enrolled in the National Student Exchange for a given term will be enrolled at UAB for either NSEA (if paying tuition and fees at a NSE member school) or NSEB (if paying tuition and fees at UAB) for tuition enrollment verification purposes. Actual course work earned at the exchange institution will be articulated to UAB course work and posted as UAB credit.

The Washington Center
UAB Students enrolled in The Washington Center (TWC) for a given term will be considered transient students and will not be enrolled at UAB. Actual course work earned through TWC will be articulated to UAB course work, and upon receipt of students’ portfolio and final evaluation by TWC, grades will be posted as transfer credit.

Changes of Grades
If grades are assigned by the host institution (3rd Party Programs, Reciprocal Exchanges, National Student Exchange, The Washington Center), students wishing to have a change of grade must request said change to the appropriate host university authority. UAB will only change grades based on the official transcript documentation received from the host university. If grades are assigned by a UAB faculty member (Faculty-Led Programs), then students must request a change in grade from the faculty member in charge of the particular class for which the grade change is being requested.

For More Information on Study Away:
• Visit Heritage Hall Room 521  
• http://www.uab.edu/students/academics/study-away/  
• http://www.facebook.com/uabstudyaway

Office for Service Learning (http://www.uab.edu/servicelearning)
Coordinator: Libba Vaughan

What is Service Learning?
Service Learning is a method of teaching and learning that integrates academic learning, civic learning, and meaningful service to the community. As part of an academic service learning course, students participate in an organized service activity. They reflect on that activity through journals, discussions, class blogs or other methods in order to gain further understanding of course content and to learn how classroom skills relate to the outside world. UAB’s Office for Service Learning promotes the integration of service learning into for-credit courses in all disciplines across campus.
Service Learning and UAB

Goal 1 of the UAB Strategic Plan is to provide a student-centered, collaborative learning experience to prepare diverse students for rewarding careers and lives that benefit society and our regional and global economy. Service Learning at UAB is recognized as playing an important role in achieving this goal.

UAB has been named to the President’s Higher Education Community Service Honor Roll for exemplary service to America’s communities. The Honor Roll is the highest federal recognition a college or university can achieve for its commitment to service learning and civic engagement. UAB is also recognized with the Community Engagement Classification by the Carnegie Foundation for the Advancement of Teaching. The designation reflects UAB’s community engagement across its curricula and its outreach and partnerships with the community. Out of more than 4,500 national universities, UAB is uniquely one of only 51 classified as Very High Research Activity with the Community Engagement Classification.

Service Learning: Mission and Vision

The mission of service learning is to produce participatory citizens through opportunities that integrate academic learning and civic engagement. These opportunities are for the mutual benefit of both students and community. The Office for Service Learning’s mission is to promote such opportunities.

The vision of service learning is that through participation in service learning, UAB students will become active participants in the civic affairs and social life of the community at the local, state, and national levels.

Benefits to Service Learning Students

Research has shown that students who participate in service learning courses tend to have:

- a better understanding of course material and a greater ability to apply course concepts outside the classroom;
- greater cultural and racial understanding and civic and social responsibility;
- better leadership and communication skills;
- greater ability to work well with others; and
- clarification of career goals.

Service Learning Courses

The list of service learning courses changes each semester as UAB faculty are continually developing new courses and integrating service learning into existing courses. Eligibility to participate in a service learning course depends on the particular course requirements as established by the department and professor.

Please see a current list of service-learning courses at www.uab.edu/servicelearning/.

Service Learning Opportunities for Students in the Honors Academy

Global and Community Leadership Honors Program

Service learning is an integral part of the GCL Honors Program. In the second semester of the program, students take a service learning course in which they connect with a community organization. Relationships built during this course are foundational for the third and fourth semesters in which students develop projects with the same community organization to assist them in achieving their goals.

University Honors Program

As part of each fall interdisciplinary course, students in the University Honors Program (UHP) engage in a service learning project with seventh grade students at Arrington Middle School (AMS). Over the course of six visits, UHP students work on a different project each year and AMS students also visit the Spencer Honors House. Service learning may also be a part of some of the 15-20 new seminars offered by the program each year.

Science and Technology Honors Program

The Science and Technology Honors Program integrates service learning experiences throughout its curriculum.

Experiential Learning Scholars Program

Students in this Honors Program are encouraged to integrate service learning into their individualized learning plans. All ELSP students take a service learning first year experience course and have the opportunity to include existing service learning courses as well as independent projects throughout their curriculum.

Study Away Service Learning Opportunities

UAB Study Away offers faculty led service-learning opportunities each summer that appeal to students in every discipline. For details, see http://uab.abroadoffice.net/index.html

UAB is part of the National Student Exchange through which students have the opportunity to go to other universities and to be involved in service-learning at other campuses.

- International Service-Learning Opportunities include:
  - UAB in Zambia International Service Learning Program
  - Child Family Health International (HIV/AIDS in India)
  - International Partnership for Service-Learning
  - Engineers in Service and Learning
  - School of Nursing - Global and Community Health in Honduras

For More Information on Service Learning

- Visit Heritage Hall Room 527
- http://www.uab.edu/servicelearning/
- www.facebook.com/UABServiceLearning
- Twitter: @UABServeLearn

Office for Undergraduate Research (http://www.uab.edu/undergraduate-research)

Coordinator: Nick Bieser

What is Undergraduate Research?

Undergraduate research is an inquiry or investigation conducted by an undergraduate student in collaboration with a mentor that makes an original intellectual or creative contribution to the discipline. The projects may involve inquiry, design, investigation, scholarship, discovery,
application and/or performance. Each project typically concludes with the production of a substantial work product.

**Mission**
The mission of the Office for Undergraduate Research is to advance student learning through research.

**Vision**
The vision of the Office for Undergraduate Research is that all undergraduate students interested in engaging in research, scholarship or a creative activity in collaboration with a mentor are provided the opportunity to do so.

**Description**
The Office serves as a one-stop clearinghouse for undergraduate research. We define research quite broadly to include undergraduate scholarly works and creative activities. We promote and facilitate research by undergraduate students across all the various disciplines at UAB. The Office provides information and tools necessary to educate undergraduate students about research, help them find and engage in fulfilling research opportunities, and assist students in communicating their findings. We strive to educate and train undergraduates to become professionals in their respective disciplines by having them work closely with experts in the field and developing the practical skills needed to be a practitioner of the discipline. Additionally, we work closely with faculty to support ongoing undergraduate research efforts, as well as to assist those interested in adopting research pedagogy and/or serving as a mentor.

**What are the responsibilities of Office for Undergraduate Research?**
- Facilitating connection between faculty and students interested in undergraduate research
- Providing outlets and opportunities for communicating results of student research
- Promoting undergraduate research to internal and external audiences
- Coordinating central support for undergraduate research

**Undergraduate Research Courses offered at UAB**
Research has always been a mainstay of the undergraduate education experience. Participation in a research course is dependent on each particular course requirements as established by the associated department and faculty member. Students interested in research should meet with their advisor prior to enrolling in one or more of the following courses as many have prerequisites or minimum GPA requirements. Also, please note that there may be other courses not listed of which we are unaware, so consult with your advisor or the course catalog to find out more about these courses. A list of current undergraduates research courses is [http://www.uab.edu/undergraduateresearch/images/Documents/Research_Oriented_Courses_2012.pdf](http://www.uab.edu/undergraduateresearch/images/Documents/Research_Oriented_Courses_2012.pdf).

**For More Information on Undergraduate Research**
- Visit Heritage Hall 527
- [http://www.uab.edu/undergraduate-research](http://www.uab.edu/undergraduate-research)
- [https://twitter.com/UABUGResearch](https://twitter.com/UABUGResearch)
**ROTC**

Both the United States Army and Air Force offer Reserve Officer Training Corps (ROTC) at UAB. Air Force ROTC courses are taught on the Samford University campus.

**Army ROTC**

**Faculty:** LTC Carter, MSG Barbée, Mr. Parker, SFC Anthony, Mr. Garcia, SSG Carroll

The Army Reserve Officers Training Corps (ROTC) program offered at UAB under federal laws and Acts of Congress. Students may compete for two, three, or four year full tuition ROTC scholarships just by attending an ROTC class.

ROTC develops leadership and problem solving skills training, through hands-on training and classroom instruction by experienced, active-duty Army officers and non-commissioned officers. Students learn the necessary skills to become successful civilian or military professionals. Students apply leadership, organizational and personnel management skills in a variety of challenging environments.

Qualified students may obtain a commission as a Second Lieutenant, with the opportunity to serve as either full time in the active Army, or full or part time in the National Guard or U.S. Army Reserve.

**Enrollment**

All students are eligible to apply to the program. The Army ROTC program offers several courses that may be counted as electives. The Lower Division is designed to benefit students with a broad range of professional goals. The Upper Division leads to a presidential commission as a Second Lieutenant in the U.S. Army. Enrolled students who actively pursue a commission may earn a Minor in Military Science.

**Lower Division**

Lower Division courses are normally taken in the freshman and sophomore years. Veterans may take a compressed version of the Lower Division sequence in the summer as a six-week, all-expense-paid leadership seminar. Successful completion of the Lower Division gives students the credentials necessary for enrollment in the Upper Division.

**Upper Division**

Upper Division courses are taken during the final two years of college and include an advanced summer seminar between the junior and senior years. Students in the Upper Division are paid $450 to $500 per month while enrolled, and earn a salary for all summer internships.

**Scholarship Program**

Army ROTC offers opportunities for scholarships covering full tuition. Students may apply for three-year or two-year scholarships. Each scholarship covers tuition, provides an annual allotment of $1,200 for books and fees, and gives students a tax-free allowance each month classes are in session. The allowance increases each year: $300 per month during the student’s freshman year, $350 per month during the sophomore year, $450/month during the junior year, and $500 per month during the senior year. Army ROTC scholarships are awarded on the basis of merit. Family income has no bearing on eligibility for an award. For more details, see the Financial Aid section of this catalog or contact the scholarship advisor at the ROTC Department, Telephone (205) 934-8749.

**Partnership in Nursing Education**

Army ROTC also offers a unique scholarship opportunity for UAB School of Nursing students under the Partnership in Nursing Education (PNE) program. These scholarships not only cover tuition, books and fees, and the monthly allowance, but also guarantee progression into the upper division clinical nursing classes. Two-year, three-year, or four-year scholarships are available for all qualified nursing majors. See the Financial Aid section of this catalog or contact the scholarship advisor at the ROTC Department, Telephone (205) 934-8749.

**Veterans**

Students with prior military experience can fulfill credit requirements for the ROTC Lower Division sequence. If credit is granted, and provided the student is not on a three-year Army ROTC Scholarship, veterans may bypass the freshman and sophomore years of ROTC and enroll directly in the Upper Division sequence. Students with prior service may be eligible for special veteran scholarships. In addition to any financial assistance from ROTC, veterans are still qualified to receive any and all GI Bill, Army College Fund, or VEAP benefits to which they are entitled.

**Simultaneous Membership Program**

Students may take advantage of the Simultaneous Membership Program (SMP), which allows participation in ROTC and enlistment in the Army National Guard or Reserve at the same time. SMP Students serve as officer trainees in a Guard or Reserve unit and perform duties commensurate with the grade of Second Lieutenant. SMPs are paid at the rate of at least a Sergeant E-5 for Guard or Reserve service.

**Minor in Military Science**

Students who are actively pursuing a commission as a Lieutenant (active duty or reserve duty) may pursue a minor in Military Science. Contact the Department of Military Science, (205) 934-7215, or UAB Academic Programs and Policy for more information.

**Honors Program**

As part of the Military Honors Program, military science students with outstanding qualities of leadership, academics, and high moral character may be designated by the Professor of Military Science as "Distinguished Military Students." Upon earning a commission as a Second Lieutenant and a baccalaureate degree, select students may be designated "Distinguished Military Graduates."

**Further Information**

For further information on the UAB Army ROTC program, contact the Professor of Military Science at (205) 934-7215 or 934-8749, or visit the web site at http://www.uab.edu/armyrotc.

**Air Force ROTC**

The Air Force Reserve Officer Training Corps (ROTC) program provides college men and women with the opportunity to compete for a commission as a Second Lieutenant in the United States Air Force upon graduation. The program is divided into the General Military Course and the Professional Officer Course. The General Military Course includes courses offered during the first two years of the program and is open to all students without military obligation. The Professional Officer Course includes junior and senior level courses and is restricted to those who
General Military Course

The General Military Course consists of:

<table>
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<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>AFS 101</td>
<td>1</td>
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<td>AFS 102</td>
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<td>AFS 201</td>
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<td>AFS 202</td>
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These courses are open to all students regardless of qualifications for military service or intent to compete for commission. As part of the General Military Course, students examine the basic organization and structure of the Air Force, appreciate the historical significance of air power, apply basic communication skills, and receive an introduction to total quality management. Each course is one semester hour credit.

Additional Programs

ROTC cadets also compete for additional training programs such as FREEFALL (parachuting), SOAR (glider training), ASSIST (Officer Shadow Program), Nurse Orientation Program (NOP), Flight Nurse NOP, Survival Training, Overseas Base Orientation, and Engineering Orientation Program. These programs take place between the freshman-sophomore and junior-senior years. They allow cadets to see real-world Air Force officers operating on a daily basis and provide exposure to opportunities they might not otherwise receive.

Scholarship Programs

Four-year college scholarships are available to highly qualified high school seniors. Interested students should contact their local Air Force recruiter or the nearest Air Force ROTC program for application booklets. Applications are due by December 1 of the senior year in high school.

Field Training

Air Force ROTC field training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of field training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of field training prior to enrollment in the Professional Officer Course. The major areas of study in the four-week field training program include officer shadow training, aircraft and air-crew orientation, career orientation, survival training, base functions and the Air Force environment, and physical training. The major areas of study included in the six-week field training program are essentially the same as those conducted in four-week field training and in the General Military Course, including Leadership Laboratory.

Minor in Aerospace Studies

To earn a Minor in Aerospace Studies, the student must have a 3.0 GPA or better in all Aerospace Studies courses, and a “C” or better in all required classes. No grade below a “C” will count towards the Minor in Aerospace Studies. This must include at least two courses of the Military Science 300 Sequence (6 semester hours), and two courses of the Military Science 400 sequence (6 semester hours).

Aerospace Studies Minor

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<tr>
<th>Requirements</th>
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<tr>
<td>AFS 101</td>
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<td>AFS 102</td>
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<td>AFS 402</td>
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<td>Total Hours</td>
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</tr>
</tbody>
</table>

* AFS 250 Field Training (6) may be substituted for AFS 101, AFS 102, AFS 201, AFS 202, and AFS 300

AFROTC Field Training

NOT WAIVERABLE. Failure to successfully complete Field Training will prevent a student from earning a Minor in Military Science.
The University of Alabama at Birmingham  83

College of Arts and Sciences

Dean: Robert E. Palazzo
Senior Associate Dean for Undergraduate Academic Affairs: Catherine Daniélou
Associate Dean for Advising: Kimberly Schnormeier
Associate Dean for Interdisciplinary and Creative Innovation: Yogesh K. Vohra
Associate Dean for Research in the Sciences: David C. Schwebel

The College of Arts and Sciences includes departments in the arts, humanities, mathematics, social, behavioral, natural and physical sciences.

The College offers 23 degree programs leading to a Bachelor’s degree and 22 programs leading to a masters or doctoral degree. Situated at the center of an internationally renowned research university and academic medical center, students and faculty in the College of Arts and Sciences have unparalleled opportunity to be part of the innovative and ground-breaking research and creative work that is the signature of UAB.

We offer a student-centered, experiential curriculum designed to prepare students not only for the careers and challenges of the 21st century, but also to be the leaders in the global marketplace of ideas. Every undergraduate program in the arts and sciences is designed to ensure that students cultivate strong oral and written communication skills, proficiency in mathematical and analytical reasoning, and sophisticated appreciation of ethics and civic engagement. Graduates with an arts and sciences major develop the ability to understand diverse perspectives and methods to advance understanding and improve solutions. Students in the College of Arts and Sciences can pursue formal interdisciplinary programs such as African-American Studies or International Studies. We also welcome very motivated students to work with their academic adviser and faculty to design an individualized, interdisciplinary major in a focused area. Among the fields that some of our students have chosen to focus on are: Asian Studies, Children Studies, Chinese Studies, Environmental Sciences, Environmental Science Film-making, Film Studies, Forensic Science, Health and Society, International Development, International Health, Japanese Studies, Legal Studies, Quantitative Economics, Sports and Health in Society, Social Media, Translational Research, Women’s Studies.

The UAB Core Curriculum requirements and the specific major and minor requirements for graduation are listed below for each Bachelor’s degree option.

The Core Curriculum for the College of Arts & Sciences

Refer to Core Curriculum (p. 294)

Additional Requirements

General Electives for Majors in the College of Arts & Sciences

Departments within the College have policies on the grade level of acceptable work that may be applied towards the major or minor. A student must take general electives to reach the 120 semester hour requirement. At least 9 semester hours of the major must be at the 400 level or above. In addition to the number of hours there is a requirement of at least a C average in courses counted toward the major and also in courses counted toward the minor for all students majoring in Biology, Chemistry, Computer and Information Sciences, Mathematics, Physics. At least one-third of the hours in both the major and minor must be completed at UAB, and at least a C average must be maintained in these courses.

Other Requirements

Requirements for students majoring or minoring in Anthropology, Communication Studies, Government, International Studies, History, Justice Sciences, Psychology, Social Work, Sociology: courses counted toward one major or minor may not be applied to meet the requirements of another major or minor; credit will be allowed for job-training instructional programs that have been evaluated and approved by an agency of the American Council on Education, or comparable evaluating agency, and when the work in question is germane to the student’s program.

Requirements for students majoring in African American Studies, Art/Art History, English, Foreign Languages, Music, Philosophy, Theatre: relevant courses counted toward one major or minor in one of these seven fields may be applied to meet the requirements of a major or minor in another of these specific fields. After doing so, if a student has not achieved the minimum required credit hours for graduation, the remaining hours may be fulfilled through courses of the student’s choosing, consistent with all other degree requirements.

Teacher Certification

UAB offers baccalaureate level (Class B) secondary (grades 6-12) teacher certification in Chemistry, Biology, General Science, French, History, General Social Science, English Language Arts, Mathematics, Music-Instrumental, Music-Choral, and Spanish. To obtain certification, students must major in their teaching field and education. Requirements for the major in the College of Arts and Sciences may be found in the appropriate department listing. Because of specific Alabama Teacher Certification requirements, students seeking certification should consult with the School of Education Student Success Center (Room 100, Education Building) early in their academic careers. UAB also offers non-traditional fifth year masters’ level (Class A) certification in the above disciplines. Students majoring in one of the above fields should contact the School of Education Student Success Center for more information about program admission requirements.

Interdisciplinary Programs

Interdisciplinary programs of study are increasingly popular as we realize the benefits of multiple perspectives and methods to advance
understanding and improve solutions. Students in the College of Arts and Sciences can pursue formal interdisciplinary programs such as African-American Studies or International Studies. Other possibilities include for example Media Studies or Film Studies at the minor level. The Interdisciplinary Minors list below indicates our choices.

We also encourage motivated students to work with their academic advisor and faculty to design an individualized, interdisciplinary major in a focused area. Among the many different fields that some of our students have chosen to focus on are Arabic, Asian Studies, Children Studies, Chinese Studies, Environmental Sciences, Environmental Science Film-making, Film Studies, Health and Society, International Development, International Health, Japanese Studies, Latin American Studies, Legal Studies, Media Production, Sports and Health in Society, Social Media, Sports Economics, Women’s Studies. Students who may be interested in designing their own major should contact their academic advisor or email Dr. Catherine Danielou at danielou@uab.edu

Interdisciplinary Majors
African American Studies (p. 84)
International Studies (p. 89)
Natural Science (p. 94)
Neuroscience (p. 94)

Interdisciplinary Minors
African American Studies (p. 84)
American Studies (p. 86)
Environmental Science (p. 87)
Film (p. 87)
Gerontology (p. 88)
International Studies (p. 89)
Media Studies (p. 93)
Peace, Justice and Ecology (p. 96)
Women’s and Gender Studies (p. 96)

African American Studies
Director: Kathryn Morgan

The African American Studies Program is an interdisciplinary program that integrates the humanities, social and behavioral sciences and health related fields. A major in African American Studies leads to a Bachelor of Arts Degree. The Program also offers a minor. Since the Program requires only 39 hours for completion, students are encouraged to consider a “double major” with African American Studies.

The curriculum offered by the African American Studies Program advances knowledge about continental and diasporic African and African-American cultures and the history, literature, art, music, politics, economics, and religion associated with these cultures.

Our mission is to encourage critical thinking, develop analytical and writing skills, promote understanding and appreciation of contributions made by African Americans, and illuminate the complexity of race and the African American experience.

The plan of study prepares students with critical knowledge, research skills, and communication skills to further their education in graduate and professional study; obtain employment in public health, social sciences, business and related fields; communicate effectively; and demonstrate the application of knowledge through community engagement.

Students receiving a degree in African American Studies may go to graduate school or professional school or obtain employment in a variety of fields.

Major Requirements for African American Studies

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<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AAS 200 Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 325 Black Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AAS 330 African Aesthetics and Traditional Religion</td>
<td>3</td>
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<tr>
<td>AAS 420 Public Health and Medical Issues in African Communities</td>
<td>3</td>
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<tr>
<td>AAS 493 Capstone Seminar</td>
<td>3</td>
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<tr>
<td>or AAS 495 Individual Studies</td>
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</tr>
</tbody>
</table>

Required Writing and Research Course
Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 350 Research Methods in African American Studies</td>
<td>3</td>
</tr>
<tr>
<td>EH 205 Introduction to Creative Writing</td>
<td></td>
</tr>
<tr>
<td>EH 301 Reading, Writing, and Research for English Majors</td>
<td></td>
</tr>
<tr>
<td>CMST 210 Newswriting and Reporting I</td>
<td></td>
</tr>
</tbody>
</table>

English Courses
Select two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 365 African American Literature, 1746-1954</td>
<td>3</td>
</tr>
<tr>
<td>EH 366 African American Literature, 1954-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 422 African Literature</td>
<td>3</td>
</tr>
<tr>
<td>EH 423 African Women’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>EH 446 African American Autobiography</td>
<td></td>
</tr>
<tr>
<td>EH 447 African American Dramatic Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 448 African American Poetry Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 466 The Slave Narrative and Its Literary Expressions</td>
<td>3</td>
</tr>
<tr>
<td>EH 467 Black Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>EH 468 The Harlem Renaissance</td>
<td>3</td>
</tr>
</tbody>
</table>

History Courses
Select two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 223 African-American History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HY 224 African-American History Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HY 289 Topics in African American History</td>
<td></td>
</tr>
<tr>
<td>HY 304 U.S. Civil Rights Movement</td>
<td>3</td>
</tr>
<tr>
<td>HY 389 Topics in African American History</td>
<td></td>
</tr>
</tbody>
</table>

Approved Electives
Select three of the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 165 Jazz Styles: History and Appreciation (CA)</td>
<td>3</td>
</tr>
<tr>
<td>AAS 220 History of Sport: The African American Experience</td>
<td>3</td>
</tr>
<tr>
<td>AAS 250 Special Topics in African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 300 African American Music (CA)</td>
<td>3</td>
</tr>
<tr>
<td>AAS 301 History and Tradition of Gospel Music</td>
<td></td>
</tr>
<tr>
<td>AAS 310 Black Image: Screen and Television (GJ)</td>
<td></td>
</tr>
<tr>
<td>AAS 320 African Identity-Personality</td>
<td></td>
</tr>
<tr>
<td>AAS 400 Seminar in African American Studies</td>
<td></td>
</tr>
</tbody>
</table>
The University of Alabama at Birmingham

Minor Requirements for African American Studies

Select 6 courses from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 200</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 220</td>
<td>History of Sport: The African American Experience</td>
<td>3</td>
</tr>
<tr>
<td>AAS 250</td>
<td>Special Topics in African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 300</td>
<td>African American Music</td>
<td>3</td>
</tr>
<tr>
<td>AAS 301</td>
<td>History and Tradition of Gospel Music</td>
<td>3</td>
</tr>
<tr>
<td>AAS 320</td>
<td>African Identity/Personality</td>
<td>3</td>
</tr>
<tr>
<td>AAS 325</td>
<td>Black Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AAS 330</td>
<td>African Aesthetics and Traditional Religion</td>
<td>3</td>
</tr>
<tr>
<td>AAS 350</td>
<td>Research Methods in African American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 420</td>
<td>Public Health and Medical Issues in African</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communities</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 18

Proposed Program of Study for a Major in African-American Studies

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AAS 200</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 223</td>
<td>3 AAS 300</td>
<td>3</td>
</tr>
<tr>
<td>AAS 290</td>
<td>3 HY 224</td>
<td>3</td>
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</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 320</td>
<td>3 AAS 310</td>
<td>3</td>
</tr>
<tr>
<td>AAS 330</td>
<td>3 EH 366</td>
<td>3</td>
</tr>
<tr>
<td>EH 365</td>
<td>9</td>
<td>6</td>
</tr>
</tbody>
</table>

Total credit hours: 45

African American Studies Honors Program

PURPOSE

The purposes of the Honors Program in African American Studies are to promote academic excellence; provide opportunity for majors to do extensive study and research in the discipline; and prepare academically talented majors to pursue graduate school or professional careers.

ELIGIBILITY

- completion of required AAS courses:
  - AAS 200 Introduction to African American Studies
  - AAS 320 (African Identity and Personality),
  - AAS 350 (Research Methods in African American Studies)
- undergraduate cumulative GPA of 3.00
- GPA of 3.25 in AAS courses
- junior-senior level standing

REQUIREMENTS

- completion of required courses for the AAS major
- approval by the Program Director
- completion of AAS 497 Honors Seminar (Fall Semester)
- completion of AAS 498 Honors Thesis/Project (Spring Semester)
- formal presentation of the final project

BENEFITS

Participation in the African American Studies Honors program provides opportunities for academically talented students to have unique access to faculty and to interact with other honors students in an environment that encourages creative and innovative thinking. Seminar participation and research experience will be useful for graduate study or a career in the field. Completion of the Honors program is an advantage when applying to graduate programs. Finally, students who complete the program will be recognized at the African American Studies outstanding student ceremony and will graduate “With Honors in African American Studies.

CONTACT

For additional information and/or admission to the African American Honors Program, please contact:

Dr. Kay Morgan, Program Director
African American Studies Program
322 Heritage Hall
Birmingham, AL 35294-1152
Phone: 205-975-9651 or 975-9652
E-mail: kmorgan@uab.edu
American Studies

Interdisciplinary Minor

Directors: Catherine Danielou (Dean’s Office, College of Arts and Sciences) and Deborah Littleton (College of Arts and Sciences)

The American Studies Program offers, through the College of Arts and Sciences, an interdisciplinary minor that examines various aspects of United States society and culture. Students are introduced to a wide range of different “texts” from American art, literature, music, history, science and technology, political science and sociology, justice sciences, and popular culture. These “texts” may include movies, slides, audio recordings, material artifacts, folkways, and food ways, as well as traditional written material. Students learn how to “read” and interrelate these texts in order to acquire a more complete and multifaceted understanding of American life and history. The minor in American studies thus provides a broad background in liberal arts and social sciences while developing skills of interdisciplinary thinking useful in a variety of careers. An American studies minor complements and counterbalances more narrowly focused majors; at the same time, it enhances majors that are either national or international in scope.

Minor Requirements for American Studies

Music, the Arts, Literature, and Philosophy

Select three of the following: 9

- AAS 165 Jazz Styles: History and Appreciation
- AAS 300 African American Music
- AAS 301 History and Tradition of Gospel Music
- AAS 447 African-American Dramatic Tradition
- AAS 448 African American Poetry Tradition
- ARH 101 The Art Experience
- ARH 450 American Art to 1900
- ARH 467 Modern Architecture
- ARH 485 Special Topics: Museum Studies
- MU 165 Jazz Styles: History and Appreciation
- MU 364 American Music
- MU 365 The Evolution of Jazz
- EH 223 American Literature I: Before 1865
- EH 224 American Literature II: 1865-Present
- EH 324 African-American Special Topics
- EH 365 African American Literature, 1746-1954
- EH/AAS 366 African American Literature, 1954-Present
- EH 367 Southern Literature
- EH 369 The American Dream
- EH 416 Modern American Poetry
- EH 424 African-American Special Topics
- EH 446 African American Autobiography
- EH 447 African American Dramatic Tradition
- EH 448 African American Poetry Tradition
- EH 460 American Women Writers Before 1900
- EH 461 American Literature, 1620 - 1820
- EH 462 American Literature, 1820 - 1870
- EH 463 American Literature, 1870 - 1914
- EH 464 American Literature, 1914 - 1945
- EH 465 American Literature, 1945-Present

Social and Behavioral Sciences

Select two of the following: 6

- AAS 220 History of Sport: The African American Experience
- AAS 325 Black Psychology
- AAS 200 Introduction to African-American Studies
- AAS 310 Black Image: Screen and Television
- AAS 250 Special Topics in African-American Studies
- AAS 420 Public Health and Medical Issues in African Communities
- ANTH 222 Prehistory of North America
- ANTH 236 Religion and Culture in United States
- ANTH 355 Archaeology of Alabama
- EC 413 Urban Economics
- JS 100 Introduction to the Criminal Justice System
- JS 220 Police in America: An Overview
- JS 240 Corrections in America: An Overview
- JS 390 The Death Penalty in America
- PSC 101 Introduction to American Government
- PSC 110 Introduction to American Public Policy
- PSC 221 American State and Local Government
- PSC 260 American Foreign Policy
- PSC 318 Politics and Race in America
- PSC 321 Public Opinion in American Politics
- PSC 330 The American Judicial Process
- PSC 332 The American Presidency
- PSC 340 American Political Thought
- PSC 380 The Politics of Constitutional Law
- PSC 381 The Bill of Rights
- PSC 401 Seminar in American Government
- PSC 430 American Constitutional Law I
- SOC 275 Urban Sociology
- SOC 316 Popular Culture
- SOC 319 Sociology of The South
- SOC 336 Sport and Society
- SOC 350 Sociology of Hip Hop
- SOC 416 Sociology of the South
- SOC 470 Urban Ecology
- SW 203 Social Welfare History
- SW 302 Social Welfare Policy Analysis

History

Select two of the following: 6

- HY 120 The United States To 1877
- HY 121 The United States Since 1877
- HY 207 The American Film
- HY 210 History of American Medicine
- HY/AAS 223 African-American History to 1865
- HY/AAS 224 African-American History Since 1865
- HY 225 History of Alabama
- HY 226 History and Development of Birmingham
- HY 228 Southern Industrial History
- HY 289 Topics in African American History
- HY 303 Women in American History
- HY 304 U.S. Civil Rights Movement
Environmental Science

Interdisciplinary Minor

The minor in environmental science enables students to receive a broad background both in the sciences and in the application of scientific principles to environmental problems.

Students may pursue a major in environmental science through an Individually Designed Major. Email Dr. Catherine Danielou, Senior Associate Dean for Undergraduate Academic Affairs in the College of Arts and Sciences, for more information about Individually Designed Majors (danielou@uab.edu), or call (205) 934-5643.

Minor Requirements for Environmental Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Biology Courses</strong> ¹</td>
<td></td>
</tr>
<tr>
<td>BY 123  Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 124  Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CH 115  General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116  and General Chemistry I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 29

¹ Note: All of these courses may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.

Grade Requirement

All courses applied to this minor must be completed with a grade of C or better.

Film

Interdisciplinary Minor

Director: Mack (Theatre)

Committee: Bokobza, Danielou (Foreign Languages and Literatures), Forman (Media Studies/History), Hubbard (Theatre), Lake (Art/Art History), Millard (History), O’Beirne (Media Studies Commons),Phillips (Music), Shackleford (Theatre), Siegel (English),

The College of Arts and Sciences Interdisciplinary Film Minor is a 21-hour program. Students are required to take 12 hours of electives and 9 hours within a concentration. (Note that some courses in concentrations may have additional prerequisites.) Coursework must be chosen from a minimum of 2 departments. Concentration sequences are offered in the areas of film studies, animation/experimental video production, documentary video production, and narrative video production. Students may petition to substitute courses for electives up to 6 credit hours. Contact the director of the minor for information regarding elective course substitutions. Substitutions must be approved 6 months before graduation.
## Minor Requirements for Film

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration Sequence</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>9</td>
</tr>
</tbody>
</table>

### Film Studies
- EH 210 Interpreting Film
- EH 431 Special Topics in Film

Select one of the following:
- HY 311/DCS 201 History of the Documentary Film
- DCS 201
- FLL/THR 303 History of World Movies I: The Origins to 1960
- FLL/THR 304 History of World Movies II
- THR 102 Introduction to Cinema, Introduction to Cinema

### Animation/Experimental Video Production
- ARS 260 Intro to Time Based Media
- ARS 360 Intermediate Time Based Media
- ARS 460 Advanced Time Based Media

### Documentary Filmmaking
- DCS 401/ARS 407/DCS 450 Ethnographic Filmmaking/SL
- DCS 401
- DCS 450 Media and Public Service

### Narrative Filmmaking
- THR 277 Filmmaking I
- THR 375 Filmmaking II
- THR 376 Filmmaking III
- THR 475 Filmmaking IV

### Electives
Select four of the following: 12
- ARS 260 Intro to Time Based Media
- ARS 360 Intermediate Time Based Media
- ARS 361 3D Computer Modeling
- ARS 406 Digital Filmmaking/SL
- ARS 460 Advanced Time Based Media
- ARS 461 3D Computer Animation
- ARS 488 Seminar in Time Based Media
- DCS 101 Media and Society
- CMST 283 Visual Media Production I
- CMST 383 Visual Media Production II
- DCS 150 Introduction to Film and History
- DCS 191 History of Documentary Film
- DCS 201 History of Documentary Film
- HY 311
- DCS 208 Women in Film
- DCS 401 Ethnographic Filmmaking/SL
- DCS 450 Media and Public Service
- DCS 460 Independent Media Studies
- EH 210 Interpreting Film
- EH 431 Special Topics in Film
- FLL/THR 303 History of World Movies I: The Origins to 1960
- FLL/THR 304 History of World Movies II
- HON 316 Seminar: Ethnographic Filmmaking
- HY 207 The American Film
- HY 307 The American Film

### Total Hours
- 21

### Gerontology

#### Interdisciplinary Minor

**Director:** Patricia L. Sawyer  
**Committee on Undergraduate and Graduate Education in Gerontology Director:** Sawyer (Center for Aging)  
**Associate Directors:** Dented (Sociology), Shevchenko (Health Professions)  
**Members:** Allan (Center for Aging), Ball (Psychology), Curtis (Division of Gerontology, Geriatrics, and Palliative Care), Fordham (Nursing), Galvin (Public Health), Ghana (Biology), Wadley (Psychology)

Gerontology is the study of processes of aging in all their diversity—the complex interaction of individual, social, and organizational phenomena producing change over the entire life span. Gerontological education necessarily encompasses many traditional disciplines in the biological, behavioral, medical, and social sciences, as well as numerous professional specialties. The philosophy of the Gerontology Education Program is that research and instruction of the highest quality are achieved when faculty and students are trained within their parent discipline or field and apply their insights to questions of aging through interdisciplinary education. In this sense, students bring a firm disciplinary background with a specialized body of knowledge into their future endeavors.

UAB’s Gerontology Education Program offers interdisciplinary courses in gerontology, leading to an undergraduate minor. The study of gerontology at this level provides students educated in various disciplines with the background needed to work in programs related to aging and the aged. The program’s main goals are to provide students with a
 thorough background in existing theory and research in gerontology and to supplement their existing backgrounds and professional disciplines.

The academic program is administered by the director of the Gerontology Education Program. The director is also responsive to the guidance of the Committee on Undergraduate and Graduate Education in Gerontology and serves as chair of the committee. The committee is made up of representatives from academic departments throughout UAB who are active in the study of aging and the aged. The director reports to the dean of the College of Arts and Sciences and to the director of the Center for Aging.

The multidisciplinary gerontology program is offered to all UAB students in good standing. The program has the sponsorship and support of the College of Arts and Sciences and the Center for Aging. Students may obtain the program’s Operating Policies: Standards and Procedures Manual through the program director.

**Minor Requirements for Gerontology**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Gerontology Courses</td>
<td></td>
</tr>
<tr>
<td>GER 260 Biology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GER 425 Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GER 469 Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>Practicum or Independent Reading/Research Project</td>
<td></td>
</tr>
<tr>
<td>Complete a practicum or independent reading or research project for three credit hours. See your advisor for details.</td>
<td>3</td>
</tr>
<tr>
<td>Gerontology Electives</td>
<td></td>
</tr>
<tr>
<td>Select six hours from Gerontology (GER) courses</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Grade Requirement**

A grade of C or better is required in all courses applied to the minor. Additionally, students must have a GPA of at least 2.5 in all courses applied to the minor.

**International Studies**

**Interdisciplinary Major and Minor**

*Director:* Renato Corbetta

*Faculty:* Corbetta, Sharlach, Zahariadis (Government); Kyle (Anthropology), Liber, Murray, Van Sant, Ward (History); Biga, Cockerham, Hamilton (Sociology); Cummings (Art and Art History); Danielou (Foreign Languages and Literatures)

The International Studies Program promotes a holistic appreciation of the different values and structures that characterize the world’s diverse societies, as well as an understanding of the institutions that produce economic, social, cultural, and political interdependence among nations.

A major or minor in international studies provides students with the background necessary to pursue a variety of public and private-sector careers. Employment opportunities are as numerous and varied as the interests and abilities of individual students. Majors may find employment in diplomatic or foreign service; international business, law, or labor relations; international development, social service, the travel industry, or health agencies and cultural organizations. Many of our students pursue graduate work in the fields of international relations, international development, peace studies, conflict resolution studies, public health, or law. We encourage all International Studies to study abroad, minor in a foreign language, and hope that they will pursue internship opportunities as well. The minor complements any major area by providing students with an international focus in their field.

The program is administered by the College of Arts and Sciences. In addition, courses taught in other schools and professional programs at UAB may be relevant to the curriculum developed by a student in pursuit of his or her specific career goals.

International Studies is an interdisciplinary major. Courses eligible to apply to this major may vary with the emphasis that a student chooses. See your advisor for identifying an appropriate curriculum in your area of interest.

**Major Requirements for International Studies**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required International Studies</strong></td>
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</tr>
<tr>
<td>PSC 103 Introduction to International Relations</td>
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</tr>
<tr>
<td>FLL 120 Foreign Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ITS 470/ Seminar in International Studies</td>
<td>3</td>
</tr>
<tr>
<td>ITS Internship</td>
<td></td>
</tr>
<tr>
<td>ITS 482 Internship in International Affairs</td>
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</tr>
<tr>
<td><strong>Economic Awareness</strong></td>
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<tr>
<td>Select one of the following:</td>
<td>3</td>
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<tr>
<td>ANTH 318 Anthropology of Development</td>
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</tr>
<tr>
<td>ANTH 365 Economic Anthropology</td>
<td></td>
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<tr>
<td>EC 210 Principles of Microeconomics</td>
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<tr>
<td>EC 211 Principles of Macroeconomics</td>
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<tr>
<td>EC 304 Microeconomics</td>
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<tr>
<td>EC 305 Macroeconomics</td>
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<tr>
<td>EC 405 Economic Development and Growth</td>
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<td>EC 407 International Economics</td>
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<td>MG 305 Nonprofit Organization Mgmt</td>
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<tr>
<td>PSC 355 Politics of Development</td>
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<tr>
<td>PSC 461 International Political Economy</td>
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</tr>
<tr>
<td><strong>Socio-Political Concentration</strong></td>
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</tr>
<tr>
<td>Select three of the following, from at least two different departments:</td>
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</tr>
<tr>
<td>ANTH 242 Peoples of World/South America Indians</td>
<td></td>
</tr>
<tr>
<td>ANTH 244 Peoples of the World: Africa</td>
<td></td>
</tr>
<tr>
<td>ANTH 245 Peoples of the World: Mediterranean</td>
<td></td>
</tr>
<tr>
<td>ANTH 247 Peoples of the World: Oceania</td>
<td></td>
</tr>
<tr>
<td>ANTH 248 Peoples of the World: Latin America</td>
<td></td>
</tr>
<tr>
<td>ANTH 290 Study Abroad: Chilapa, Guerrero, Mexico</td>
<td></td>
</tr>
<tr>
<td>ANTH 299 Contemporary Global Issues</td>
<td></td>
</tr>
<tr>
<td>ANTH 330 Nationalism Ethnicity and Violence</td>
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</tr>
<tr>
<td>ANTH 351 Anthropology of Human Rights</td>
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<tr>
<td>ANTH 360 Ecological Anthropology</td>
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</tr>
<tr>
<td>ANTH 361 Kinship and Social Organization</td>
<td></td>
</tr>
<tr>
<td>ANTH 459 Politics, Drugs and Society in Latin America</td>
<td></td>
</tr>
<tr>
<td>HY 234 The World Since 1945</td>
<td></td>
</tr>
<tr>
<td>HY 245 Introduction to Latin American History</td>
<td></td>
</tr>
<tr>
<td>HY 247 Indians, Spaniards &amp; Creoles</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>-------------</td>
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</tr>
<tr>
<td>HY 248</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>HY 257</td>
<td>The Celtic Fringe: Ireland, Scotland, Wales</td>
</tr>
<tr>
<td>HY 258</td>
<td>Britain and the Third World</td>
</tr>
<tr>
<td>HY 262</td>
<td>Introduction to Early Modern Spanish History</td>
</tr>
<tr>
<td>HY 263</td>
<td>History of the Russian Empire</td>
</tr>
<tr>
<td>HY 265</td>
<td>History of the Soviet Union 1917-1991</td>
</tr>
<tr>
<td>HY 272</td>
<td>Modern East Asia</td>
</tr>
<tr>
<td>HY 315</td>
<td>Egypt in the Age of the Pyramids</td>
</tr>
<tr>
<td>HY 316</td>
<td>Imperial and Post-Imperial Egypt</td>
</tr>
<tr>
<td>HY 317</td>
<td>History of Ancient Greece</td>
</tr>
<tr>
<td>HY 318</td>
<td>History of the Roman Empire</td>
</tr>
<tr>
<td>HY 319</td>
<td>Late Antiquity and Early Middle Ages</td>
</tr>
<tr>
<td>HY 337</td>
<td>Eastern Europe 1600-1918</td>
</tr>
<tr>
<td>HY 338</td>
<td>Eastern Europe 1914-Present</td>
</tr>
<tr>
<td>HY 341</td>
<td>US-Latin American Relations</td>
</tr>
<tr>
<td>HY 342</td>
<td>Sex &amp; Latin American Society</td>
</tr>
<tr>
<td>HY 343</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>HY 345</td>
<td>The Reformation</td>
</tr>
<tr>
<td>HY 355</td>
<td>The Celtic Fringe: Ireland, Scotland, Wales</td>
</tr>
<tr>
<td>HY 361</td>
<td>Britain and the Third World</td>
</tr>
<tr>
<td>HY 365</td>
<td>The Pacific War, 1931-1945</td>
</tr>
<tr>
<td>HY 376</td>
<td>Japan and the United States</td>
</tr>
<tr>
<td>HY 377</td>
<td>Modern East Asia</td>
</tr>
<tr>
<td>HY 419</td>
<td>The Second World War</td>
</tr>
<tr>
<td>HY 421</td>
<td>The Vietnam Wars, 1945-1975</td>
</tr>
<tr>
<td>HY 446</td>
<td>Nations of the Andes</td>
</tr>
<tr>
<td>HY 477</td>
<td>Modern Mexico</td>
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<tr>
<td>HY 453</td>
<td>Clash of Civilizations</td>
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<tr>
<td>HY 456</td>
<td>Seventeenth-Century Europe: Absolutism, Revolution and Science</td>
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<td>HY 457</td>
<td>Nineteenth-Century Europe</td>
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<td>HY 458</td>
<td>Modern Europe</td>
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<tr>
<td>HY 460</td>
<td>Ancient and Medieval Britain</td>
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<tr>
<td>HY 461</td>
<td>English History: 1307-1660</td>
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<tr>
<td>HY 462</td>
<td>Early Modern Britain</td>
</tr>
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<td>HY 463</td>
<td>Victorian Britain</td>
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<tr>
<td>HY 464</td>
<td>Modern Great Britain</td>
</tr>
<tr>
<td>HY 466</td>
<td>The French Revolution</td>
</tr>
<tr>
<td>HY 467</td>
<td>Modern France 1815 - Present</td>
</tr>
<tr>
<td>HY 468</td>
<td>German Catastrophe 1815-2012</td>
</tr>
<tr>
<td>HY 469</td>
<td>Stalin and Stalinism</td>
</tr>
<tr>
<td>HY 470</td>
<td>The Soviet Union Since 1953</td>
</tr>
<tr>
<td>HY 471</td>
<td>Russian Intellectual History</td>
</tr>
<tr>
<td>HY 472</td>
<td>Terror and Terrorism from French Revolution to Present</td>
</tr>
<tr>
<td>HY 475</td>
<td>Modern China</td>
</tr>
<tr>
<td>HY 476</td>
<td>Japan to the 19th Century</td>
</tr>
<tr>
<td>HY 477</td>
<td>Modern Japan</td>
</tr>
<tr>
<td>JS 115</td>
<td>Comparative Criminal Justice Systems</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Introduction to Comparative Politics</td>
</tr>
<tr>
<td>PSC 260</td>
<td>American Foreign Policy</td>
</tr>
<tr>
<td>PSC</td>
<td>The United Nations</td>
</tr>
<tr>
<td>PSC 266/466</td>
<td>African Politics</td>
</tr>
<tr>
<td>PSC 350</td>
<td>European Political Systems</td>
</tr>
<tr>
<td>PSC 351</td>
<td>Latin/South American Political Systems</td>
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<tr>
<td>PSC 353</td>
<td>Asian Political Systems</td>
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<tr>
<td>PSC 354</td>
<td>East European Politics</td>
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<tr>
<td>PSC 360</td>
<td>International Security</td>
</tr>
<tr>
<td>PSC 361</td>
<td>North/South International Relations</td>
</tr>
<tr>
<td>PSC 362</td>
<td>Diplomacy</td>
</tr>
<tr>
<td>PSC 363</td>
<td>Nationalism in World Politics</td>
</tr>
<tr>
<td>PSC 465</td>
<td>International Law</td>
</tr>
<tr>
<td>SOC 200</td>
<td>Social Change</td>
</tr>
<tr>
<td>SOC 278</td>
<td>Global and International Sociology</td>
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<tr>
<td>SOC 279</td>
<td>Contemporary China</td>
</tr>
<tr>
<td>SOC 335</td>
<td>Human Sexuality: A Comparative Approach</td>
</tr>
<tr>
<td>SOC 370</td>
<td>Population Problems</td>
</tr>
<tr>
<td>SOC 480</td>
<td>Sociology of Health and Illness</td>
</tr>
</tbody>
</table>

**Cultural Literacy**

Select three of the following courses, from at least two different departments:

- ANTH 101 Introduction to Cultural Anthropology
- ANTH 104 Introduction to Peace Studies
- ANTH 204 Food in Antiquity
- ANTH 305 World Prehistory
- ANTH 319 Food and Culture
- ANTH 320 Comparative Religion
- ANTH 357 Anthropology of Gender
- ANTH 405 As Others See Us
- ANTH 450 Advanced Cultural Anthropology
- ANTH 447 Advanced Peace Studies
- ANTH 483 Intern in Peace, Justice and Environmental Study
- ANTH 303 The Conquest of Mexico
- ANTH 370 Music in World Cultures
- ANTH 446 Explorers, Mummies and Hieroglyphs
- ARH 101 The Art Experience
- ARH 203 Ancient and Medieval Art
- ARH 204 Renaissance through Modern Art
- ARH 206 Survey of Asian Art
- EH 217 World Literature I: Before 1660
- EH 218 World Literature II: 1660-Present
- EH 242 Greek and Roman Mythology
- EH 422/522 African Literature
- EH 423/523 African Women’s Literature
- HY 218 History of the Roman Empire
- HY 230 Middle East 550 BCE to 1453 CE
- HY 235 War in the Modern World
- HY 285 Mapping Our World
- HY 314 Roman Republic
- HY 330 Middle East 550 BCE to 1453 CE
- FLL 220 Foreign Literatures in English Translation
- HY 271/371 Traditional East Asian History and Culture
- HY 357 Religion in Early Modern European History
- HY 371 Traditional East Asian History and Culture
- HY 370 End of the U.S.S.R.
- HY 454 Topics in Middle Eastern History
- HY 459 Spain and the Spanish Inquisition
- HY 465 French Enlightenment
- HY 478 Topics in European History
- MU 366 Music in World Cultures
- MU 367 Introduction to Ethnomusicology
- PHL 232 Classical Political Thought
- PHL 233 Modern Political Theory
- PHL 239 Classical Thought of India China and the West
International Studies
Proposed Program of Study for a Major in International Studies

**General Electives**

Students must take six semester hours from any of the above approved list of courses AND/OR from the list below:

- ANTH 123 Comparative Cultures through Films
- ANTH 207 Introduction to Egyptian Archaeology
- ANTH 285 Mapping Our World
- CMST 416 Issues in Global Communication
- ENH 400 Our Global Environment: Issues and Challenges
- ENH 405 Nature vs. Nurture: Genes, Environment and Health
- ANTH 304 Looking at Earth: Maps Satellite Images and GIS
- ANTH 366 Urban Anthropology
- EH 421 World Literature
- FLL 303 History of World Movies I: The Origins to 1960
- FLL 304 History of World Movies II
- FLL 485 Foreign Language Capstone Seminar
- FLL 305 Borders and Crossings inside the Global Village
- HY 339 The Holocaust
- HY 422 Ethnic Cleansing & Genocide 1912-2012
- PUH 302 Epid: Beyond the Outbreak
- PUH 303 Intro Global Health

**Total Hours:** 39

**Grade and Level Requirement**

A grade of C or better is required in all International Studies courses. Students must demonstrate second-year proficiency in a foreign language. Students must ensure that at least 9 hours are taken in an approved geographic concentration. Geographical areas currently include Europe, Africa, Asia, Latin America and the Middle East. At least 15 credits must be taken at the 300 level including 9 hours at 400 level. Students must fulfill an international experience. This requirement may be satisfied by one of the following: participation in a study abroad program; participation in a course with a substantial international, applied component to it; participation in the Model Arab League simulation or its equivalent; or participation in an internship with an international organization or company or an entity offering an international component.

**Additional Requirements**

**General Electives**

Students must take general electives to reach the 120 semester hour requirement.

**Proposed Program of Study for a Major in International Studies**

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Term</td>
<td>PSC 104 Introduction to Political Theory</td>
<td>3</td>
<td>3</td>
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<tr>
<td></td>
<td>PSC 341 Classical Political Thought</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>PSC 342 Modern Political Theory</td>
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<tr>
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**Sophomore**

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</thead>
<tbody>
<tr>
<td>First Term</td>
<td>Core Curriculum Area II: Fine Art</td>
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<td>FLL 120 International Studies Major Course</td>
<td>3</td>
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<tr>
<td></td>
<td>International Studies Major Course</td>
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<td>3</td>
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<tr>
<td></td>
<td>Core Curriculum Area II: Literature</td>
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<td></td>
<td>Core Curriculum Area II: Foreign Language</td>
<td>3</td>
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<tr>
<td></td>
<td>Core Curriculum Area II: Natural Science with Lab</td>
<td>4</td>
<td>4</td>
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<tr>
<td></td>
<td>General Elective</td>
<td>6</td>
<td>6</td>
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<tr>
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<td><strong>Total Hours</strong></td>
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**Junior**

<table>
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<tr>
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<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>International Studies Major Course</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>International Studies Major Course</td>
<td>3</td>
<td>3</td>
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<tr>
<td></td>
<td>International Studies Major Course</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
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**Senior**

<table>
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<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>International Studies Major Course</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>International Studies Major Course</td>
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<tr>
<td></td>
<td>International Studies Major Course</td>
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<tr>
<td></td>
<td>General Electives</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

**Total credit hours: 124**

A minor is required for the International Studies major. All core courses must be from the approved list for Core Area I-IV. The number of minor courses and general electives may vary.

**Minor Requirements for International Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103</td>
<td>Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>FLL 120</td>
<td>Foreign Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ITS 470</td>
<td>Seminar in International Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ITS 471</td>
<td>Seminar in International Studies</td>
<td>3</td>
</tr>
<tr>
<td>International Studies Electives</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Select nine hours from the following courses, at least six hours must be taken at the 300 level or above:

- ANTH 101 Introduction to Cultural Anthropology
- ANTH 104 Introduction to Peace Studies
- ANTH 123 Comparative Cultures through Films
- ANTH 204 Food in Antiquity
- ANTH 207 Introduction to Egyptian Archaeology
- ANTH 225 Mesoamerican Archaeology
The University of Alabama at Birmingham

Grade & Residency Requirement
A C or better is required in all International Studies courses applied to the minor. At least half of the minor must be completed at UAB or through BACHE.

Honors Program in International Studies

Purpose
The ITS Honors Program is designed for qualified, self-motivated international studies majors. Through special course distribution and credit hours requirements, as well as a directed honors thesis, students are prepared for in-depth ITS research and related graduate or professional opportunities.

Eligibility
Students must meet the following eligibility criteria:

1. 3.0 cumulative GPA at UAB, 3.3 GPA in ITS (and maintenance of these minima).
2. Junior standing.
3. Declaration of ITS as student’s major.
4. Letter of Intent to the Director. The Director approves admission into the program in consultation with the ITS faculty.

Requirements
Students are required to successfully complete the following:

1. Completion of ITS 470 or ITS 471 Seminar in International Studies (3 credits).
2. Enrollment in ITS 497 Honors Research in International Studies (3 credits) after completion of the Seminar.
3. Following completion of ITS 497, preparation of an advanced research project which will lead to the development of a substantial research paper and, in some cases, a senior thesis under faculty supervision (all faculty affiliated with ITS are eligible to supervise the paper).
4. Defense of paper/thesis in colloquium, composed of ITS faculty and other ITS 497 students
5. Participation in SIR, the international studies honor society.

Benefits
Honors students will benefit from one-on-one mentoring with faculty in the program, which will lead to a more thorough understanding of the field and practice of international studies. This is particularly useful as students choose career goals, such as graduate school, international public service, the U.S. Foreign Service, or other opportunities. Additionally, students who complete the program will receive a certificate at the annual UAB Honors Convocation and will graduate “With Honors in International Studies.”

Contact
For more information and/or admission to the International Studies Honors Program, contact the ITS Director, 560 Heritage Hall, UAB, Birmingham, AL 35294-1152; Telephone (205) 934-5643.

Media Studies

Interdisciplinary Minor

Director: Michele Forman (Department of History)

The Media Studies minor is an interdisciplinary program for students interested in learning the theory and production practices of new media technology. The minor provides students a solid grounding in the history, theory and practice of documentary film, film history, oral history, ethnography, community studies, and media theory. Students will gain experience in community-based research, as well as attain proficiency in various new media technologies.

The courses are taught by members of the UAB Arts and Sciences faculty, offering students instruction in digital video cinematography, field audio recording, computer-based editing, applied research techniques, and professional presentation methods. The minor in Media Studies emphasizes experiential learning and offers students opportunities for hands-on participation in local communities through service learning and internships with non-profit organizations, businesses, and educational and governmental institutions.

Requirements
The Media Studies minor will require 18 semester hours, including three courses in the core curriculum (9 hours), six hours of additional advanced media studies coursework (either 2 courses or one 6 hour-course), and one elective (3 hours). The elective will be drawn from a number of relevant courses already existing in the curriculum of the College of Arts and Sciences involving technology, media, and/or community studies. No grade below C will be counted as credit for the minor.
Minor Requirements for Media Studies

Requirements

Hours

Media Studies Core

Select three of the following:

DCS 101 Media and Society
DCS 150 Introduction to Film and History
DCS 201 History of Documentary Film
DCS 208 Women in Film
DCS 309 American Independent Film
DCS 390 Life, Liberty, and the Pursuit of Happiness: Representing American Identity on Film
DCS 391 Digital Storytelling

Advanced Media Studies Elective

Select two of the following:

DCS 250 Community and Service
DCS 401 Ethnographic Filmmaking/SL
DCS 450 Media and Public Service
DCS 460 Independent Media Studies
DCS 470 Internship in Media Studies
DCS 490 Special Topics in Media
DCS 499 Special Topics in Media Studies

Elective

Select one of the following:

ANTH 123 Comparative Cultures through Films
ANTH 366 Urban Anthropology
ANTH 415 Ethnographic Research Methods
ARS 260 Intro to Time Based Media
ARS 360 Intermediate Time Based Media
ARS 454 Multimedia Productions
ARS 488 Seminar in Time Based Media
EH 210 Interpreting Film
EH 431 Special Topics in Film
GEO 109 Intro to Urban Geography
HY 207 The American Film
HY 227 Technology and Society
HY 305 Popular Culture in American History
HY 431 American Film and Violent Society
MPA 673 Community Planning and Organization
PSC 270 Law and Film
PSC 370 Politics and the Media
SOC 275 Urban Sociology
WS 480 Special Topics in Women’s and Gender Studies

Total Hours

18

College of Arts and Sciences

Natural Science

Interdisciplinary Major

The purpose of the Natural Science degree is to enable students to receive a general science education based on a course of study which is broader, but less in-depth in a single area, than a typical science major in the College of Arts and Sciences.

Requirements are successful completion of 30 semester hours approved and offered by one science department (designated the major) and 27 semester hours approved and offered by a second science department (designated the minor). The five science departments are found within the College of Arts and Sciences and include Biology, Chemistry, Computer Science, Mathematics, and Physics. At least 9 semester hours of the major must be at the 400 level or above.

Because departments within the college offer a variety of courses for diverse purposes, not every course listed in this catalog can be counted toward the natural science degree. Students must obtain approval of a plan of study leading toward this degree from the department chair of both the major and minor departments. It is advisable to do this as soon as possible to avoid taking courses that might not be approved toward the degree.

In addition to the number of hours, there is a requirement of at least a C average in courses counted toward the major and also in courses counted toward the minor. At least one-third of the hours in both the major and minor must be completed at UAB, and at least a C average must be maintained in these courses. Individual departments may be contacted for specific listings of courses required or recommended for the major or minor in that department for the natural science degree, or for information about particularly effective major/minor pairings.

Students interested in pursuing a major in Natural Science should email Dr. Catherine Danielou, Senior Associate Dean for Undergraduate Academic Affairs in the College of Arts and Sciences, and will be referred to an appropriate academic adviser (danielou@uab.edu), or call (205) 934-5643.

Neuroscience

Interdisciplinary Major

The UAB Undergraduate Neuroscience major (www.unp.uab.edu) was established in 2009 as a joint program between the Department of Neurobiology in the School of Medicine and the Department of Psychology in the College of Arts and Sciences. Neuroscience is the study of the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions. Neuroscience also seeks to understand the molecular basis of nervous system disorders and diseases. Multidisciplinary in nature, the field of Neuroscience spans the anatomy, evolution, development, genetics, biochemistry, cell biology, physiology, electrophysiology, pharmacology, circuitry and pathology of the nervous system. Therefore, neuroscience integrates biology, chemistry, physics, mathematics, psychology, and computer science. It is one of the most rapidly advancing fields in biomedical research.

The goals of the Undergraduate Neuroscience Program are to prepare and advance UAB undergraduates to careers in research and health-related sciences in highly competitive programs and to enable UAB graduates to become accomplished scientists, clinicians and health-care professionals who will be ideally equipped for future study of the nervous system and treatment and discovery of cures for neurological, psychiatric and neurodevelopmental disorders and injury.

The Undergraduate Neuroscience Program and Training Faculty accomplish these goals by four complementary mechanisms. First, students are provided with a solid academic and intellectual foundation through coursework in biology, chemistry, mathematics, physics, psychology and neuroscience. Second, students conduct original hands-on laboratory research under the direction of faculty mentors to learn the state-of-the-art experimental approaches and methods in Neuroscience research. Third, students are mentored in the development of skills in scientific method, experimental analysis, and effective oral and written
communication. Students are expected to become active “colleagues” in faculty laboratories, which should result in publications in scientific journals and presentations at professional meetings. Fourth, students are provided with one-on-one academic and career counseling to identify professional programs most suited to their interests, and strategies to be competitive applicants to these programs.

Students earning the B.S. in Neuroscience at UAB are well suited for admission into the nation’s most prestigious graduate programs and medical schools.

Admissions

The Undergraduate Neuroscience Program is designed for graduating high school seniors and college freshmen or sophomores with a strong academic record and the motivation to pursue a career in biomedical science. Please note carefully the following items.

1) High school students with 30 or higher on the ACT and a GPA of at least 3.75 will be considered for immediate acceptance in to the Neuroscience Program. Students may compensate for an ACT score of less than 30 with exceptional classroom performance including scores of 4 or 5 on certain AP exams. Others may choose to attend UAB for a year and would then be evaluated for admission based on excellent classroom performance. We are especially interested in the following courses: BY 123 and BY 124; CH 115 and CH 117. Current UAB students whose high school credentials meet the minimum requirements and/or whose performance in college courses is excellent may apply at any time. Please contact Professor Carl McFarland (cmcfarla@uab.edu) if you would like to be admitted to the program. Dr. McFarland is available to meet the high school students and parents or with current UAB students to discuss the program and answer any questions you might have.

Advising and Information

Dr. Carl E. McFarland, Jr.
Co-Director, Undergraduate Neuroscience Program
Professor of Psychology
(205) 934-3850

Dr. Anne Theibert
Program Director, Undergraduate Neuroscience
Associate Professor of Neurobiology
(205) 934-7278

Jan Phillips
Neuroscience Program Assistant
Administrative Assistant
(205) 934-2542

Major Requirements for Neuroscience

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 123</td>
<td>4</td>
</tr>
<tr>
<td>BY 124</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 115 &amp; CH 116</td>
<td>4</td>
</tr>
<tr>
<td>CH 117 &amp; CH 118</td>
<td>4</td>
</tr>
</tbody>
</table>

Advanced Neuroscience Courses

Select two courses from the following:

- NBL/PY 433 Diseases of the Nervous System
- NBL/PY 434 Mechanisms of Memory
- PY 468 Cognitive Neuroimaging
- PY 472 Social Psychophysiology
- VIS 456 Visual Neuroscience (Typically Offered Spring)

Physics

Select one group PH 201 & 202 or PH 221 & 222

- PH 201 College Physics I & 201L and College Physics Laboratory I
- PH 202 College Physics II
- PH 221 General Physics I & 221L and General Physics Laboratory I
- PH 222 General Physics II & 222L and General Physics Laboratory II

Statistics

Select one of the following:

- STH 301 Statistics and Design Overview
- PY 216 Elementary Statistical Methods and Design with Laboratory
- MA 180 Introduction to Statistics

Total Hours: 65-66

1) Medical school requires 6 hours of college math. You can cover 3 hours with AP Calculus, but must take another math course at UAB. MA 180 will satisfy the requirement. Therefore, students planning to attend medical school should take MA 180 rather than PY 216 or STH 301.

Research: Neuroscience majors are required to be continuously engaged in research under the direction of a faculty mentor beginning no later than the first semester of their junior year. However, qualified students may identify a mentor and begin conducting research as early as their freshman year. Course credit will be provided via PY 398.

Recommended but not Required:

Premedical students should take SOC 100.

NBL 390 Introduction to Neurobiology at Dauphin Island Sea Lab (1 s.h.)
BY 330 Cell Biology (3 s.h.)
PY 305 Medical Psychology
PY 335 Motivation and Emotion
PY 372 Social Psychology

**Academic Performance Requirement**: Neuroscience majors must maintain an overall GPA of 3.35 to remain in the program. Majors will be allowed one semester to raise their GPA.

**Peace, Justice and Ecology**

**Interdisciplinary Minor**

**Directors**: Loretta Cormier and Chris Kyle (Anthropology)

**Faculty**: Baker (Social Work), Becker (Environmental Health Sciences), Biga (Sociology), Copes (Justice Sciences), Dickinson (Environmental Health Sciences), Ertas (Government), Fidopiastis (Health Professions), Keitt (History), King (History), Petri (Human Studies), Morrow (Philosophy)

The peace, justice, and ecology minor, housed in the College of Arts and Sciences, is an interdisciplinary program for students seeking a broad learning experience in human-ecological interactions, bio-cultural diversity, and strategies to foster social justice, peace, and environmental sustainability from a holistic perspective. The peace, justice, and ecology studies minor offers students the opportunity to examine themes of ecological adaptation and sustainability as well as environmental health and human rights in local, cross-cultural, and global contexts, and to apply scientific, philosophical, and ethical reasoning to real-world problems.

**Requirements**

**Minor Requirements for Peace, Justice and Ecology**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Peace, Justice &amp; Ecology Foundation Courses</td>
<td></td>
</tr>
<tr>
<td>ANTH 104 Introduction to Peace Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 483 Intern in Peace, Justice and Environmental Study</td>
<td>3</td>
</tr>
<tr>
<td>or ANTH 447 Advanced Peace Studies</td>
<td></td>
</tr>
</tbody>
</table>

**Peace, Justice & Ecology Electives**

Select four of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 106</td>
<td>Introductory Archaeology</td>
</tr>
<tr>
<td>ANTH 299</td>
<td>Contemporary Global Issues</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>Anthropology of Gender</td>
</tr>
<tr>
<td>ANTH 460</td>
<td>Historical Ecology</td>
</tr>
<tr>
<td>BY 407</td>
<td>Microbial Ecology</td>
</tr>
<tr>
<td>BY 470</td>
<td>Ecology</td>
</tr>
<tr>
<td>CE 236</td>
<td>Environmental Engineering</td>
</tr>
<tr>
<td>CE 433</td>
<td>Solid and Hazardous Wastes Management</td>
</tr>
<tr>
<td>CE 441</td>
<td>Civil Engineering Honors Seminar</td>
</tr>
<tr>
<td>EC 308</td>
<td>Economics of Environment</td>
</tr>
<tr>
<td>EH 214</td>
<td>Introduction to Literature: Special Topics</td>
</tr>
<tr>
<td>EH 392</td>
<td>Special Topics in Literature</td>
</tr>
<tr>
<td>ENH 401</td>
<td>Our Global Environment: Issues and Challenges</td>
</tr>
<tr>
<td>ENH 405</td>
<td>Nature vs. Nurture: Genes, Environment and Health</td>
</tr>
<tr>
<td>ENV 108</td>
<td>Human Population and the Earth's Environment</td>
</tr>
<tr>
<td>ES 101</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>ES 109</td>
<td>Planet Earth</td>
</tr>
<tr>
<td>HE 141</td>
<td>Personal Health</td>
</tr>
<tr>
<td>HE 223</td>
<td>Introduction to Epidemiology and Disease Impact</td>
</tr>
<tr>
<td>HY 303</td>
<td>Women in American History</td>
</tr>
<tr>
<td>HY 304</td>
<td>U.S. Civil Rights Movement</td>
</tr>
<tr>
<td>HY 402</td>
<td>Reacting to the Past</td>
</tr>
<tr>
<td>HY 480</td>
<td>Historic Preservation and Public Policy</td>
</tr>
<tr>
<td>JS 390</td>
<td>Media, Crime &amp; Justice</td>
</tr>
<tr>
<td>PH 115</td>
<td>Contemporary Moral Issues</td>
</tr>
<tr>
<td>PH 116</td>
<td>Bioethics</td>
</tr>
<tr>
<td>PH 321</td>
<td>Cooperation and Competition</td>
</tr>
<tr>
<td>SOC 200</td>
<td>Social Change</td>
</tr>
<tr>
<td>SOC 280</td>
<td>Introduction to Medical Sociology</td>
</tr>
<tr>
<td>SOC 431</td>
<td>Environmental Sociology</td>
</tr>
<tr>
<td>SOC 470</td>
<td>Urban Ecology</td>
</tr>
<tr>
<td>SW 206</td>
<td>Disaster Preparedness</td>
</tr>
</tbody>
</table>

**Total Hours**: 18

**Grade Requirement**

A C or better is required in all courses applied to the minor.

**Women's and Gender Studies**

**Interdisciplinary Minor**

**Director**: Lisa Sharlach (Government)

**Faculty**: Baker (Social Work), M. Bellis (English), Chapman (English), Cormier (Anthropology), Dallow (Art History), Doss (History), Drentea (Sociology), Forman (Media Studies), Gunther-Canada (Government), King (History), Koskinen (Theatre), Lariscy (English), Morgan (African American Studies & Justice Sciences), Murray (History), Sharlach (Government), Zayzafoon (Foreign Languages and Literatures)

Women's and Gender Studies, formerly Women's Studies, is an interdisciplinary minor within the College of Arts and Sciences. Courses address sexuality and the gendered dynamics of history, politics, literature and the arts, philosophy and theology, health, and socio-cultural practices. The minor may be of interest to students pursuing careers in government, the justice system, education, social services, economic development and the health professions.

**Minor Requirements for Women’s and Gender Studies**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Women's and Gender Studies courses</td>
<td></td>
</tr>
<tr>
<td>WS 100</td>
<td>Introduction to Women’s and Gender Studies</td>
</tr>
<tr>
<td>WS 400</td>
<td>Theory and Practice of Women’s and Gender Studies: Senior Seminar</td>
</tr>
</tbody>
</table>

**Women's and Gender Studies Electives**

Select four of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 357</td>
<td>Anthropology of Gender</td>
</tr>
<tr>
<td>ARH 483</td>
<td>Special Topics: Gender and the Visual Arts</td>
</tr>
<tr>
<td>EH 423</td>
<td>African Women’s Literature</td>
</tr>
<tr>
<td>EH 444</td>
<td>Women’s Literature and Theory</td>
</tr>
<tr>
<td>EH 460</td>
<td>American Women Writers Before 1900</td>
</tr>
<tr>
<td>EH 467</td>
<td>Black Women Writers</td>
</tr>
</tbody>
</table>
The anthropology program emphasizes the holistic view of humankind and culture through the four major branches of the discipline:

- Cultural Anthropology
- Archaeology
- Biological Anthropology
- Linguistics

An undergraduate student has latitude in selecting a personalized program of study in the major that satisfies individual interests and maintains the holistic integrity of an undergraduate degree in general anthropology.

### Anthropology Graduate Program

The department participates in a cooperative M.A. program in anthropology with the University of Alabama. Students apply for admission to the program through the Graduate School in Tuscaloosa, indicating on the application the intent to participate in the joint UA/UAB MA Program. Once admitted, students are free to take courses and work with faculty from either department. Together the UA and UAB departments have 19 regular faculty, 13 at UA and 6 at UAB. The discipline’s four traditional subfields (archaeology, cultural anthropology, biological anthropology, and linguistics) are represented among the faculty, as are many areas of geographic, methodological and topical expertise.

For more information, contact the Department Chair or the Graduate Program Director.

### Major Requirements for Anthropology

#### Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Required Anthropology Courses 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 102 Introduction to Biological Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 106 Introductory Archaeology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 120 Language and Culture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Advanced Anthropology</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Select two of the following Capstones:</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 450 Advanced Cultural Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 451 Advanced Archaeological Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 452 Advanced Linguistic Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 453 Advanced Biological Anthropology</td>
</tr>
</tbody>
</table>

| Hours | Select 18 credit hours in Anthropology (ANTH) 2 |

---

1. Completing ANTH 101, ANTH 106 and ANTH 120 will satisfy six hours of Core Curriculum Area IV.
2. Courses not listed above, including 3 hours at the 400 level and 6 hours at the 300-level or above.

### Grade & Residency Requirement

A C or better is required in all courses applied to the minor. At least half of the minor must be completed at UAB.

### Department of Anthropology

**Interim Chair:** Chris Kyle

The Anthropology Department offers the Bachelor of Arts degree and the Master of Arts degree. Our Master of Arts is awarded in conjunction with the University of Alabama at Tuscaloosa. The department also includes the Peace, Justice, and Ecology Program which offers a minor. Anthropology is a social science discipline committed to the comparative and historical study of humankind. It is the broadest in scope and the most methodologically diverse of the social sciences. Our mission is to advance knowledge of anthropology through scientific and humanistic research, high quality teaching, professional publications, and community outreach. The faculty conducts research, teaches, and trains in the four subfields of anthropology: cultural anthropology, linguistics, archaeology and biological anthropology. We also do research and teach in areas of historical ecology, medical anthropology, and peace, social justice, and environmental studies.

Students interested in careers in the fields of law, teaching, public service, international affairs, business, journalism, and a variety of other areas involving the social sciences and humanities will find the anthropology major beneficial and rewarding. Anthropology provides a solid foundation for the following careers: forensic science, cross-cultural research, international health, cultural resource management, national park service, teaching, international business, language interpreters, primatology, global economy, environmental conservation, tribal anthropology, and museum curation.

The department participates in a cooperative M.A. program in anthropology with the University of Alabama. Students apply for admission to the program through the Graduate School in Tuscaloosa, indicating on the application the intent to participate in the joint UA/UAB MA Program. Once admitted, students are free to take courses and work with faculty from either department. Together the UA and UAB departments have 19 regular faculty, 13 at UA and 6 at UAB. The discipline’s four traditional subfields (archaeology, cultural anthropology, biological anthropology, and linguistics) are represented among the faculty, as are many areas of geographic, methodological and topical expertise.

For more information, contact the Department Chair or the Graduate Program Director.

### Major Requirements for Anthropology

#### Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Required Anthropology Courses 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 102 Introduction to Biological Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 106 Introductory Archaeology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 120 Language and Culture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Advanced Anthropology</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Select two of the following Capstones:</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 450 Advanced Cultural Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 451 Advanced Archaeological Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 452 Advanced Linguistic Anthropology</td>
</tr>
<tr>
<td>3</td>
<td>ANTH 453 Advanced Biological Anthropology</td>
</tr>
</tbody>
</table>

| Hours | Select 18 credit hours in Anthropology (ANTH) 2 |

---

1. Completing ANTH 101, ANTH 106 and ANTH 120 will satisfy six hours of Core Curriculum Area IV.
2. Courses not listed above, including 3 hours at the 400 level and 6 hours at the 300-level or above.
Grade Requirement
A grade of C or better is required in all anthropology courses.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Anthropology

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3 ANTH 106</td>
<td>3 ANTH 120</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>Core Curriculum Area IV: History 1</td>
<td>Core Curriculum Area II: Humanities</td>
<td>3</td>
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<tr>
<td>Core Curriculum Area II: Fine Arts 2</td>
<td>Core Curriculum Area IV: History 1</td>
<td>3</td>
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</tr>
<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td>3</td>
<td>15</td>
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</table>

Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>3 Core Curriculum Area II: Humanities</td>
<td>3</td>
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</tr>
<tr>
<td>Core Curriculum Area II: Literature 3</td>
<td>3 Core Curriculum Area III: Natural Science with Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science with Laboratory</td>
<td>4 Anthropology (ANTH) Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>General Elective</td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td>3 General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td>15</td>
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</table>

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 450</td>
<td>3 Advanced Anthropology Course 4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Anthropology (ANTH) Elective (300-level or above)</td>
<td>3 Anthropology (ANTH) Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>General Elective</td>
<td>6</td>
</tr>
<tr>
<td>General Elective</td>
<td>6 General Elective</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>15</td>
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</table>

Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (ANTH) Elective (400 level)</td>
<td>3 Anthropology (ANTH) Elective (300-400 level)</td>
<td>3</td>
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<tr>
<td>Anthropology (ANTH) Elective</td>
<td>3 Minor</td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3 General Elective</td>
<td>7-9</td>
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</tr>
<tr>
<td>General Elective</td>
<td>6</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>13-15</td>
</tr>
</tbody>
</table>

Total credit hours: 120-122

1 Select one: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2 Select one: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3 Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224

Minor Requirements for Anthropology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Anthropology Courses</td>
<td>9</td>
</tr>
<tr>
<td>Select three of the following: 2</td>
<td></td>
</tr>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 102 Introduction to Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 106 Introductory Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 120 Language and Culture</td>
<td></td>
</tr>
<tr>
<td>Advanced Anthropology Courses</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 450 Advanced Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 451 Advanced Archaeological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 452 Advanced Linguistic Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 453 Advanced Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>Anthropology Electives</td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credit hours from Anthropology (ANTH) courses</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

1 A grade of C or better is required in all courses for the minor
2 ANTH 101, ANTH 106 and ANTH 120 may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.

Grade & Residency Requirement
A grade of C or better is required in all courses applied to the minor. At least half of the minor must be completed at UAB.

Honors Program in Anthropology

Purpose
The Anthropology Honors Program is designed to prepare students for advanced work at the graduate or professional level.

Eligibility
All regularly admitted students with a declared major in anthropology are eligible to enter the program, although continuing participation requires maintenance of an overall 3.0 GPA and a 3.25 GPA in anthropology.

Thirty-three semester hours in anthropology are required plus one of three statistics/foreign language options. Students will be required to complete a minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology Courses</td>
<td></td>
</tr>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102 Introduction to Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 106 Introductory Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 120 Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology Elective</td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 450 Advanced Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 451 Advanced Archaeological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 452 Advanced Linguistic Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 453 Advanced Biological Anthropology</td>
<td></td>
</tr>
</tbody>
</table>
Senior Year Thesis
ANTH 498 Honors Thesis Research 3-6

Additional Courses
Four additional courses from any of the department offerings 12

Total Hours 33-36

Options Selection

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 1</td>
<td></td>
</tr>
<tr>
<td>SOC 410 Social Statistics ¹</td>
<td>4</td>
</tr>
<tr>
<td>CS 201 Introduction to Object Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>Total Hours</td>
<td>8</td>
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</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 2</td>
<td></td>
</tr>
<tr>
<td>SOC 410 Social Statistics ¹</td>
<td>4</td>
</tr>
<tr>
<td>Two courses in a foreign language (or demonstrated proficiency at the 102 level)</td>
<td>8</td>
</tr>
<tr>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 3</td>
<td></td>
</tr>
<tr>
<td>Three courses in a foreign language, including one at the 200 level or above (or demonstrated proficiency at the 200 level)</td>
<td>9-11</td>
</tr>
<tr>
<td>Total Hours</td>
<td>9-11</td>
</tr>
</tbody>
</table>

¹ STH students can substitute STH 301 for one of the Statistics courses

Benefits

Students will benefit from the Anthropology Department Honors Program by acquiring additional research skills to successfully enter and compete in internationally-oriented graduate and professional programs. Students who complete the program will graduate “With Honors in Anthropology.”

Contact

For additional information and/or admission to the Anthropology Honors Program, contact the Department Chair or the Undergraduate Anthropology Program Director, 322 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-3508.

Department of Art & Art History

Chair: Lauren Lake

The Department of Art and Art History grants the following undergraduate degrees: a Bachelor of Arts and a Bachelor of Fine Arts. The B.A. has two areas of concentration: Art Studio and Art History. The B.F.A. requires an Art Studio major and an Art History minor. The department awards a Master of Arts in Art History in conjunction with the University of Alabama at Tuscaloosa. The the MA in Art Education degree is granted through the School of Education. UAB’s Department of Art and Art History is accredited by the National Association of Schools of Art and Design. Nationally and internationally active scholars and artists who promote creative inquiry, scholarship and innovation are actively teaching in their classrooms and studios.

Art History:
Emphasizing skills in critical thinking and visual literacy, students study a breadth of art history across time periods and culture preparing students for a wide range of careers and graduate study.

The Master of Arts degree in Art History prepares students for further academic study at the doctoral level or for professional careers in teaching, museums, galleries, and other arts-related fields.

Studio Art:
Studio art courses enable students to emphasize the skills and concepts of communicating visually, critically and conceptually. Students are encouraged to create a trajectory and drive for making art through experiencing the disciplines of the fine arts and design.

Students gain hands-on experience as they learn to formulate an understanding of the principles and elements of artistic practice. Students execute artworks by choosing media and technologies that support their ideas. They learn to develop sound research and production values, analyze artwork, create professional portfolios and present their work orally and in writing.

Major in Art with Art History Concentration (p. 99), BA

Major in Art with Art Studio Concentration (p. 102), BA

Major in Art Education (p. ), BA

Bachelor of Fine Art - Major in Art (p. 103), BFA

Major in Art with Art History Concentration, BA

The B.A. degree in Art is offered for students who seek a liberal arts education with a specific concentration in art studio or art history. Admission to the university assures the student of participation in the curriculum leading to the B.A. degree. No additional review process is required to seek the B.A. degree in art.

Students should see a departmental advisor before registering each term.

12 hours of the Art History (AH) courses selected to fulfill major requirements must be at the 400 level. This level requirement may not be satisfied by courses taken as major elective requirements.

Requirements for a Major in Art with Art History Concentration

(Must earn a C or better)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year Experience ¹</td>
<td></td>
</tr>
<tr>
<td>College of Arts and Sciences Freshman Year Experience course</td>
<td>1</td>
</tr>
<tr>
<td>Art Survey</td>
<td></td>
</tr>
<tr>
<td>ARH 203 Ancient and Medieval Art</td>
<td>3</td>
</tr>
<tr>
<td>ARH 204 Renaissance through Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>ARH 206 Survey of Asian Art</td>
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<td>Two-Dimensional Design</td>
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<td>ARS 102</td>
<td>Three-Dimensional Design</td>
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<tr>
<td>ARS 103</td>
<td>Digital Imaging &amp; Design</td>
</tr>
<tr>
<td>ARS 105</td>
<td>Introduction to Drawing II</td>
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</table>

**Asian/Non-Western Art**

Select one of the following: 3

- ARH 205 African/Native American/Oceanic Art
- ARH 405 African Art
- ARH 470 The Art and Culture of China
- ARH 471 Topics in Asian Cinema
- ARH 473 Japanese Prints/Printmakers
- ARH 474 Chinese Painting
- ARH 475 Japanese Art
- ARH 477 Art and Architecture of India
- ARH 478 Buddhist Arts of Asia
- ARH 479 Art & Culture of Asia: Study Abroad

**Renaissance and Baroque**

Select one of the following: 3

- ARH 407 Art of Rome
- ARH 421 Italian Renaissance Art
- ARH 422 The Birth of Painting: Portable Pictures Across Renaissance Europe
- ARH 423 Study Abroad: European Art
- ARH 424 Northern Renaissance Art
- ARH 431 European Painting in the Seventeenth Century
- ARH 435 Arts of Power in Early Modern Europe

**Eighteenth and Nineteenth Century**

Select one of the following: 3

- ARH 430 Eighteenth-Century Art in Europe
- ARH 440 19th-Century Art I: Neoclassicism, Romanticism, and Realism
- ARH 441 19th-Century Art II: Impressionism, Post-Impressionism, and Symbolism
- ARH 450 American Art to 1900

**Twentieth Century/Contemporary**

Select one of the following: 3

- ARH 460 Twentieth-Century Art to 1945
- ARH 461 Modern Design
- ARH 464 Art Since 1945
- ARH 470 The Art and Culture of China
- ARH 471 Topics in Asian Cinema
- ARH 473 Japanese Prints/Printmakers
- ARH 474 Chinese Painting
- ARH 475 Japanese Art
- ARH 477 Art and Architecture of India
- ARH 478 Buddhist Arts of Asia
- ARH 479 Art & Culture of Asia: Study Abroad
- ARH 480 Art Criticism and Theory
- ARH 482 Special Topics: Modern Art
- ARH 483 Special Topics: Gender and the Visual Arts
- ARH 485 Special Topics: Museum Studies
- ARH 487 Special Topics: Field Study
- ARH 489 Seminar: Art Theory
- ARH 491 Independent Study
- ARH 492 Museum/Gallery Internship

**Art History Elective**

Select three of the following: 9

- ARH 405 African Art
- ARH 407 Art of Rome
- ARH 409 Egypt in the Age of the Pyramids
- ARH 410 Imperial and Post Imperial Egypt
- ARH 419 Arts of Death in the Middle Ages
- ARH 421 Italian Renaissance Art
- ARH 422 The Birth of Painting: Portable Pictures Across Renaissance Europe
- ARH 423 Study Abroad: European Art
- ARH 424 Northern Renaissance Art
- ARH 430 Eighteenth-Century Art in Europe
- ARH 431 European Painting in the Seventeenth Century
- ARH 435 Arts of Power in Early Modern Europe
- ARH 440 19th-Century Art I: Neoclassicism, Romanticism, and Realism
- ARH 441 19th-Century Art II: Impressionism, Post-Impressionism, and Symbolism
- ARH 450 American Art to 1900
- ARH 460 Twentieth-Century Art to 1945
- ARH 461 Modern Design
- ARH 464 Art Since 1945
- ARH 465 Aspects of Contemporary Art
- ARH 470 The Art and Culture of China
- ARH 471 Topics in Asian Cinema
- ARH 473 Japanese Prints/Printmakers
- ARH 474 Chinese Painting
- ARH 475 Japanese Art
- ARH 477 Art and Architecture of India
- ARH 478 Buddhist Arts of Asia
- ARH 479 Art & Culture of Asia: Study Abroad
- ARH 480 Art Criticism and Theory
- ARH 482 Special Topics: Modern Art
- ARH 483 Special Topics: Gender and the Visual Arts
- ARH 485 Special Topics: Museum Studies
- ARH 487 Special Topics: Field Study
- ARH 491 Independent Study
- ARH 492 Museum/Gallery Internship
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<td>ARH 468</td>
<td>Race and Representation</td>
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<td>Topics in Asian Cinema</td>
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<td>Japanese Prints/Printmakers</td>
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<td>Japanese Art</td>
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<td>Art and Architecture of India</td>
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<td>Buddhist Arts of Asia</td>
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<td>ARH 479</td>
<td>Art &amp; Culture of Asia: Study Abroad</td>
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<td>ARH 480</td>
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<td>Special Topics: Gender and the Visual Arts</td>
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<td>Special Topics: Field Study</td>
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<td>Intro to Time Based Media</td>
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<td>Special Topics in Studio Art: Beginning</td>
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<td>Digital Photographic Imagery</td>
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<td>Special Topics and Techniques in Photography</td>
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<td>Lighting and the Photographic Studio</td>
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<td>ARS 375</td>
<td>Intermed Photography Level II</td>
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<td>Color Photography and the Fine Art Digital Print</td>
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<td>Field Study in Art Studio</td>
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<td>Ethnographic Filmmaking/SL</td>
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<td>Advanced Graphic Design Projects</td>
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<td>Graphic Design Portfolio</td>
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<td>Multimedia Productions</td>
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<td>Special Topics in Graphic Design</td>
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<td>ARS 459</td>
<td>Graphic Design Field Internship</td>
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<td>Advanced Time Based Media</td>
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<td>3D Computer Animation</td>
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<td>Emerging Technologies</td>
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<td>Professional Artist Seminar</td>
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**B.A. Capstone (taken at senior level)**

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<td>Capstone: Contemporary Art Practices</td>
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**Foreign Language Requirement**

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<td>Introductory Chinese II</td>
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<td>FR 102</td>
<td>Introductory French II</td>
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<tr>
<td>GN 102</td>
<td>Introductory German II</td>
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<tr>
<td>JPA 102</td>
<td>Introductory Japanese II</td>
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**Total Hours**: 47

1. Freshmen must take either University 101 or another College of Arts and Sciences Freshman Year Experience Course.
2. For students accepted into honors program: ARH 499 and two courses from Art History (ARH) at the 400-level.
3. Chinese or Japanese must be approved by the art history undergraduate advisor (alternatively, students may receive equivalent placement; this option reduces the credit hours of this requirement to zero).
Major in Art with Art Studio Concentration

The B.A. degree in Art is offered for students who seek a liberal arts education with a specific concentration in art studio, art history or art education. Admission to the university assures the student of participation in the curriculum leading to the B.A. degree. No additional review process is required to seek the B.A. degree in art.

Students concentrating in art studio should see a departmental advisor before registering each term.

Must earn a C or better.

Requirements for a Major in Art with an Art Studio Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<td>ARS 101 Two-Dimensional Design</td>
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<td>ARS 102 Three-Dimensional Design</td>
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<td>ARS 103 Digital Imaging &amp; Design</td>
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<td>ARH 204 Renaissance through Modern Art</td>
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<td>ARH 206 Survey of Asian Art</td>
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<td>ARS 201 Sketchbook &amp; Idea Development</td>
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<td>ARS 210 Beginning Painting</td>
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<td>ARS 220 Beginning Sculpture</td>
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<td>Ceramics</td>
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<td>ARS 395 Special Topics in Studio Art: Intermediate</td>
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<td>ARS 476 Color Photography and the Fine Art Digital Print</td>
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<td>ARS 487 Field Study in Art Studio</td>
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</tbody>
</table>
Twentieth Century / Contemporary

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 460</td>
<td>Twentieth-Century Art to 1945</td>
</tr>
<tr>
<td>ARH 461</td>
<td>Modern Design</td>
</tr>
<tr>
<td>ARH 464</td>
<td>Art Since 1945</td>
</tr>
<tr>
<td>ARH 465</td>
<td>Aspects of Contemporary Art</td>
</tr>
<tr>
<td>ARH 467</td>
<td>Modern Architecture</td>
</tr>
<tr>
<td>ARH 468</td>
<td>Race and Representation</td>
</tr>
<tr>
<td>ARH 471</td>
<td>Topics in Asian Cinema</td>
</tr>
<tr>
<td>ARH 480</td>
<td>Art Criticism and Theory</td>
</tr>
<tr>
<td>ARH 483</td>
<td>Special Topics: Gender and the Visual Arts</td>
</tr>
<tr>
<td>ARH 485</td>
<td>Special Topics: Museum Studies</td>
</tr>
<tr>
<td>ARH 487</td>
<td>Special Topics: Field Study</td>
</tr>
<tr>
<td>ARH 490</td>
<td>Seminar: Art Theory (with approval)</td>
</tr>
</tbody>
</table>

Art History Elective

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
</tr>
<tr>
<td>ARH 203</td>
<td>Ancient and Medieval Art</td>
</tr>
<tr>
<td>ARH 204</td>
<td>Renaissance through Modern Art</td>
</tr>
<tr>
<td>ARH 205</td>
<td>African/Native American/Oceanic Art</td>
</tr>
<tr>
<td>ARH 206</td>
<td>Survey of Asian Art</td>
</tr>
<tr>
<td>ARH 405</td>
<td>African Art</td>
</tr>
<tr>
<td>ARH 407</td>
<td>Art of Rome</td>
</tr>
<tr>
<td>ARH 409</td>
<td>Egypt in the Age of the Pyramids</td>
</tr>
<tr>
<td>ARH 410</td>
<td>Imperial and Post Imperial Egypt</td>
</tr>
<tr>
<td>ARH 421</td>
<td>Italian Renaissance Art</td>
</tr>
<tr>
<td>ARH 419</td>
<td>Arts of Death in the Middle Ages</td>
</tr>
<tr>
<td>ARH 422</td>
<td>The Birth of Painting: Portable Pictures Across Renaissance Europe</td>
</tr>
<tr>
<td>ARH 423</td>
<td>Study Abroad: European Art</td>
</tr>
<tr>
<td>ARH 424</td>
<td>Northern Renaissance Art</td>
</tr>
<tr>
<td>ARH 430</td>
<td>Eighteenth-Century Art in Europe</td>
</tr>
<tr>
<td>ARH 431</td>
<td>European Painting in the Seventeenth Century</td>
</tr>
<tr>
<td>ARH 435</td>
<td>Arts of Power in Early Modern Europe</td>
</tr>
<tr>
<td>ARH 440</td>
<td>19th-Century Art I: Neoclassicism, Romanticism, and Realism</td>
</tr>
<tr>
<td>ARH 441</td>
<td>19th-Century Art II: Impressionism, Post-Impressionism, and Symbolism</td>
</tr>
<tr>
<td>ARH 450</td>
<td>American Art to 1900</td>
</tr>
<tr>
<td>ARH 460</td>
<td>Twentieth-Century Art to 1945</td>
</tr>
<tr>
<td>ARH 461</td>
<td>Modern Design</td>
</tr>
<tr>
<td>ARH 464</td>
<td>Art Since 1945</td>
</tr>
<tr>
<td>ARH 465</td>
<td>Aspects of Contemporary Art</td>
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<tr>
<td>ARH 467</td>
<td>Modern Architecture</td>
</tr>
<tr>
<td>ARH 468</td>
<td>Race and Representation</td>
</tr>
<tr>
<td>ARH 470</td>
<td>The Art and Culture of China</td>
</tr>
<tr>
<td>ARH 471</td>
<td>Topics in Asian Cinema</td>
</tr>
<tr>
<td>ARH 473</td>
<td>Japanese Prints/Printmakers</td>
</tr>
<tr>
<td>ARH 474</td>
<td>Chinese Painting</td>
</tr>
<tr>
<td>ARH 475</td>
<td>Japanese Art</td>
</tr>
<tr>
<td>ARH 478</td>
<td>Buddhist Arts of Asia</td>
</tr>
<tr>
<td>ARH 479</td>
<td>Art &amp; Culture of Asia: Study Abroad</td>
</tr>
<tr>
<td>ARH 480</td>
<td>Art Criticism and Theory</td>
</tr>
<tr>
<td>ARH 482</td>
<td>Special Topics: Modern Art</td>
</tr>
<tr>
<td>ARH 483</td>
<td>Special Topics: Gender and the Visual Arts</td>
</tr>
<tr>
<td>ARH 485</td>
<td>Special Topics: Museum Studies</td>
</tr>
<tr>
<td>ARH 487</td>
<td>Special Topics: Field Study</td>
</tr>
<tr>
<td>ARH 489</td>
<td>Capstone: Contemporary Art Practices (taken at senior level)</td>
</tr>
</tbody>
</table>

Footnotes

1. Freshmen must take either University 101 or another College of Arts and Sciences Freshman Year Experience Course.
2. Note: ARH 203 will also satisfy Core Curriculum Area II.
3. Art studio majors may not take any 200 or 300 level course until they have completed ARS 100, 101, 102,103 and 105

Major in Art with B.F.A.

The B.F.A. degree in Studio Art is offered for students who seek undergraduate professional education in drawing, painting, printmaking, sculpture, ceramic sculpture, photography, time based media or graphic design. Students who intend to pursue professional careers in art or plan to pursue graduate study culminating in the M.F.A. degree are strongly encouraged to seek admission to the B.F.A. program. Admission to the university does not guarantee admission to the B.F.A. program. Students accepted to the B.F.A. program and who cannot complete all the requirements of that degree may choose to accept the B.A. degree in art studio as an alternative degree option.

Admission to the B.F.A. program requires a portfolio review of the student’s work submitted to the B.F.A. committee of the Department of Art and Art History. Portfolios are reviewed twice a year, in the Fall and Spring semesters, following announced deadlines for application to the program. Students may not apply for portfolio review until they have completed at least 15 semester hours of art studio, with a minimum of six of the those semester hours at UAB, and all of the foundation art studio requirements [see below]. Transfer students should consult the B.F.A. program director to verify their qualifications. To qualify to receive the B.F.A. degree, a minimum of 33 semester hours of studio art classes must be completed at UAB, with a minimum of 18 semester hours of studio art work completed at UAB after acceptance to the program. Students are required to meet with the director of the B.F.A. program upon their acceptance and select a member of the studio faculty to serve as their primary advisor. In the case of graphic design, students are also required to meet with the graphic design advisor.

The B.F.A. program requires the completion of 128 semester hours, including 72 hours in art studio and 18 hours in art history. Students must also comply with the Core Curriculum requirements of the College of Arts and Sciences applicable to the B.F.A. degree. In Area II students should consider taking both ARH 203 and ARH 204 which are applicable to the Art History component. In addition, courses in the required areas of Foreign Culture and Computer Sciences may be addressed by courses which are also applicable to the B.F.A. requirement. Once admitted to the B.F.A. program, no studio art course with a grade of C or lower may be applied to the degree requirements, and a C or better is required in all minor/art history courses.

As a culmination of the B.F.A. degree requirements, candidates are required to mount an exhibition of their work in drawing, painting, printmaking, sculpture, ceramic sculpture, photography and/or time based media. Graphic design students may select either an exhibition or a formal presentation and portfolio review under the direction of the graphic design advisor. The B.F.A. exhibition should be mounted in the...
semester of graduation. This exhibition may take place at any venue approved by the student’s advisor and the Director of the B.F.A. program, and may be either a one-person or a group exhibition with other B.F.A. candidates. ARS 491, B.F.A. Exhibition, provides each candidate with a three semester hour course dedicated solely to the production of work for this exhibition requirement.

**Major Requirements for a B.F.A. -Major in Art**

Once admitted to the B.F.A. program, no studio art course with a grade of C or lower may be applied to the degree requirements, and a C or better is required in all minor/art history courses.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td><strong>Freshman Year Experience</strong></td>
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<tr>
<td>College of Arts and Sciences Freshman Year Experience</td>
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**Required Art Studio Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ARS 100</td>
<td>Introduction to Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARS 101</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 102</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 103</td>
<td>Digital Imaging &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 105</td>
<td>Introduction to Drawing II</td>
<td>3</td>
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**200-level Art Studio Courses**

Select four of the following: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS 200</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARS 201</td>
<td>Sketchbook &amp; Idea Development</td>
<td>3</td>
</tr>
<tr>
<td>ARS 210</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARS 220</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARS 230</td>
<td>Beginning Ceramic Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARS 240</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ARS 241</td>
<td>Beginning Lithography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 250</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 252</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 260</td>
<td>Intro to Time Based Media</td>
<td>3</td>
</tr>
<tr>
<td>ARS 270</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 295</td>
<td>Special Topics in Studio Art: Beginning</td>
<td>3</td>
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**300-level Advanced Studio Courses**

Select six of the following from three different fields of study: 18

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS 300</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARS 302</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARS 310</td>
<td>Intermediate Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARS 320</td>
<td>Intermediate Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARS 330</td>
<td>Intermediate Ceramic Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARS 335</td>
<td>Intermediate Wheel-Thrown Ceramics</td>
<td>3</td>
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</tbody>
</table>

**Drawing**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARS 340</td>
<td>Intermediate Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ARS 341</td>
<td>Intermediate Lithography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 342</td>
<td>Experimental Printmaking</td>
<td>3</td>
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</table>

**Graphic Design**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARS 350</td>
<td>Intermediate Graphic Design</td>
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</table>

**Time Based Media**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARS 360</td>
<td>Intermediate Time Based Media</td>
<td>3</td>
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<tr>
<td>ARS 361</td>
<td>3D Computer Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ARS 362</td>
<td>Creative Strategy for Advertising Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 365</td>
<td>Illustration</td>
<td>3</td>
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</table>

**Photography**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARS 370</td>
<td>Intermed Photography Level I</td>
<td>3</td>
</tr>
<tr>
<td>ARS 371</td>
<td>Digital Photographic Imagery</td>
<td>3</td>
</tr>
<tr>
<td>ARS 372</td>
<td>Special Topics and Techniques in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 374</td>
<td>Lighting and the Photographic Studio</td>
<td>3</td>
</tr>
<tr>
<td>ARS 375</td>
<td>Intermed Photography Level II</td>
<td>3</td>
</tr>
<tr>
<td>ARS 376</td>
<td>Color Photography and the Fine Art Digital Print</td>
<td>3</td>
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</table>

**400-level Advanced Studio Courses**

Select four of the following: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARS 400</td>
<td>Advanced Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARS 406</td>
<td>Digital Filmmaking/SL</td>
<td>3</td>
</tr>
<tr>
<td>ARS 407</td>
<td>Ethnographic Filmmaking/SL</td>
<td>3</td>
</tr>
<tr>
<td>ARS 410</td>
<td>Advanced Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARS 420</td>
<td>Advanced Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARS 430</td>
<td>Advanced Ceramic Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARS 435</td>
<td>Advanced Wheel-Thrown Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ARS 440</td>
<td>Advanced Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ARS 441</td>
<td>Advanced Lithography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 442</td>
<td>Advanced Experimental Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ARS 450</td>
<td>Advanced Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 451</td>
<td>Advanced Graphic Design Projects</td>
<td>3</td>
</tr>
<tr>
<td>ARS 452</td>
<td>Graphic Design Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ARS 454</td>
<td>Multimedia Productions</td>
<td>3</td>
</tr>
<tr>
<td>ARS 455</td>
<td>Advanced Interactive Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 456</td>
<td>Advanced Advertising Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 457</td>
<td>Special Topics in Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ARS 459</td>
<td>Graphic Design Field Internship</td>
<td>3</td>
</tr>
<tr>
<td>ARS 460</td>
<td>Advanced Time Based Media</td>
<td>3</td>
</tr>
<tr>
<td>ARS 461</td>
<td>3D Computer Animation</td>
<td>3</td>
</tr>
<tr>
<td>ARS 462</td>
<td>Emerging Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ARS 473</td>
<td>Special Topics and Techniques in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 474</td>
<td>Lighting and the Photographic Studio</td>
<td>3</td>
</tr>
<tr>
<td>ARS 475</td>
<td>Advanced Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 476</td>
<td>Color Photography and the Fine Art Digital Print</td>
<td>3</td>
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<tr>
<td>ARS 479</td>
<td>Studio Internship in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARS 480</td>
<td>Practicum in Art Studio Management</td>
<td>3</td>
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<tr>
<td>ARS 487</td>
<td>Field Study in Art Studio</td>
<td>3</td>
</tr>
<tr>
<td>ARS 488</td>
<td>Seminar in Time Based Media</td>
<td>3</td>
</tr>
<tr>
<td>ARS 489</td>
<td>Professional Artist Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ARS 490</td>
<td>Independent Advanced Study in Studio Art</td>
<td>3</td>
</tr>
<tr>
<td>ARS 492</td>
<td>Studio or Gallery Internship</td>
<td>3</td>
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<tr>
<td>ARS 493</td>
<td>Art Conservation Internship</td>
<td>3</td>
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<tr>
<td>ARS 495</td>
<td>Advanced Special Topics in Studio Art</td>
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</tbody>
</table>

**General Art Studio Electives**

Select three of the following: 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS 200</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARS 201</td>
<td>Sketchbook &amp; Idea Development</td>
<td>3</td>
</tr>
</tbody>
</table>
ARS 210  Beginning Painting
ARS 220  Beginning Sculpture
ARS 230  Beginning Ceramic Sculpture
ARS 240  Beginning Printmaking
ARS 241  Beginning Lithography
ARS 250  Introduction to Graphic Design
ARS 252  Introduction to Typography
ARS 260  Intro to Time Based Media
ARS 270  Beginning Photography
ARS 295  Special Topics in Studio Art: Beginning
ARS 300  Intermediate Drawing
ARS 302  Figure Drawing
ARS 310  Intermediate Painting
ARS 320  Intermediate Sculpture
ARS 330  Intermediate Ceramic Sculpture
ARS 335  Intermediate Wheel-Thrown Ceramics
ARS 340  Intermediate Printmaking
ARS 341  Intermediate Lithography
ARS 342  Experimental Printmaking
ARS 350  Intermediate Graphic Design
ARS 351  Technical Processes for Graphic Design
ARS 352  Typography
ARS 355  Interactive Design
ARS 360  Intermediate Time Based Media
ARS 361  3D Computer Modeling
ARS 362  Creative Strategy for Advertising Design
ARS 365  Illustration
ARS 370  Intermed Photography Level I
ARS 372  Digital Photographic Imagery
ARS 373  Special Topics and Techniques in Photography
ARS 374  Lighting and the Photographic Studio
ARS 375  Intermed Photography Level II
ARS 376  Color Photography and the Fine Art Digital Print
ARS 387  Field Study in Art Studio
ARS 395  Special Topics in Studio Art: Intermediate
ARS 400  Advanced Drawing
ARS 406  Digital Filmmaking/SL
ARS 407  Ethnographic Filmmaking/SL
ARS 410  Advanced Painting
ARS 420  Advanced Sculpture
ARS 430  Advanced Ceramic Sculpture
ARS 435  Advanced Wheel-Thrown Ceramics
ARS 440  Advanced Printmaking
ARS 441  Advanced Lithography
ARS 442  Advanced Experimental Printmaking
ARS 450  Advanced Graphic Design
ARS 451  Advanced Graphic Design Projects
ARS 452  Graphic Design Portfolio
ARS 454  Multimedia Productions
ARS 455  Advanced Interactive Design
ARS 457  Advanced Advertising Design
ARS 458  Special Topics in Graphic Design
ARS 459  Graphic Design Field Internship
ARS 460  Advanced Time Based Media
ARS 461  3D Computer Animation
ARS 462  Emerging Technologies
ARS 473  Special Topics and Techniques in Photography
ARS 474  Lighting and the Photographic Studio
ARS 475  Advanced Photography
ARS 476  Color Photography and the Fine Art Digital Print
ARS 479  Studio Internship in Photography
ARS 480  Practicum in Art Studio Management
ARS 487  Field Study in Art Studio
ARS 488  Seminar in Time Based Media
ARS 489  Professional Artist Seminar
ARS 490  Independent Advanced Study in Studio Art
ARS 492  Studio or Gallery Internship
ARS 493  Art Conservation Internship
ARS 495  Advanced Special Topics in Studio Art

**Professional Requirements (Graphic Design Students should take ARS 452. All other students should take ARS 489.)**

ARS 489  Professional Artist Seminar 3
or ARS 452  Graphic Design Portfolio
ARS 491  B.F.A. Exhibition 3

**BFA Required Art History Minor**

A minor in Art History is required. Once admitted to the BFA Program a C or Better is required in all art history minor courses.

**Art History Survey**

Select two of the following: 6

1. ARH 203  Ancient and Medieval Art
2. ARH 204  Renaissance through Modern Art
3. ARH 206  Survey of Asian Art

**Western or Non-Western (antiquity - 18th century)**

Select two of the following: 6

1. ARH 405  African Art
2. ARH 407  Art of Rome
3. ARH 409  Egypt in the Age of the Pyramids
4. ARH 410  Imperial and Post Imperial Egypt
5. ARH 419  Arts of Death in the Middle Ages
6. ARH 421  Italian Renaissance Art
7. ARH 422  The Birth of Painting: Portable Pictures Across Renaissance Europe
8. ARH 423  Study Abroad: European Art
9. ARH 424  Northern Renaissance Art
10. ARH 430  Eighteenth-Century Art in Europe
11. ARH 431  European Painting in the Seventeenth Century
12. ARH 435  Arts of Power in Early Modern Europe
13. ARH 470  The Art and Culture of China
14. ARH 471  Topics in Asian Cinema
15. ARH 473  Japanese Prints/Printmakers
16. ARH 474  Chinese Painting
17. ARH 475  Japanese Art
18. ARH 477  Art and Architecture of India
19. ARH 478  Buddhist Arts of Asia
20. ARH 479  Art & Culture of Asia: Study Abroad

**Contemporary Art History**

Select one of the following: 3

1. ARH 464  Art Since 1945
2. ARH 465  Aspects of Contemporary Art
3. ARH 480  Art Criticism and Theory

**19th and 20th Century Art History**

Select one of the following: 3

1. ARH 440  19th-Century Art I: Neoclassicism, Romanticism, and Realism
Proposed Program of Study for a Major in Art with a Concentration in Art History

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Total Hours</th>
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**Sophomore**

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**Junior**

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**Senior**

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Total credit hours: 47

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Drawing)

**Freshman**

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**Junior**

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**Senior**

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Total credit hours: 46
### Sophomore

#### First Term
- ARH 204  
- ARS 220  
- ARS 250

#### Hours Second Term
- 3
- 3
- 3

#### Hours
- 6
- 6

---

### Junior

#### First Term
- ARS 350  
- ARS 351

#### Hours Second Term
- 3
- 3

#### Hours
- 6
- 6

---

### Senior

#### First Term
- ARS 450  
- ARH 461

#### Hours Second Term
- 3 ARH 489  
- 3 ARH 464

#### Hours
- 3
- 3

---

Total credit hours: 49

---

### Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Painting)

#### Freshman

#### First Term
- ARS 100  
- ARS 101  
- Freshman Year Experience

#### Hours Second Term
- 3 ARS 102  
- 3 ARS 105  
- 1

#### Hours
- 3
- 3
- 1

#### Sophomore

#### First Term
- ARH 204  
- ARS 220

#### Hours Second Term
- 3 ARS 210  
- 3 ARS 240

#### Hours
- 3
- 3

#### Junior

#### First Term
- ARS 310  
- ARS 340

#### Hours Second Term
- 3 ARS 310  
- 3

#### Hours
- 3
- 3

#### Senior

#### First Term
- ARS 410  
- ARS 460

#### Hours Second Term
- 3 ARH 489  
- 3 ARH 464

#### Hours
- 3
- 3

---

Total credit hours: 46

---

### Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Printmaking)

#### Freshman

#### First Term
- ARS 100  
- ARS 101  
- Freshman Year Experience

#### Hours Second Term
- 3 ARS 102  
- 3 ARS 105  
- 1

#### Hours
- 3
- 3
- 1

#### Sophomore

#### First Term
- ARH 204  
- ARS 220

#### Hours Second Term
- 3 ARS 210  
- 3 ARS 240

#### Hours
- 3
- 3

#### Junior

#### First Term
- ARS 310  
- ARS 340

#### Hours Second Term
- 3 ARS 310  
- 3

#### Hours
- 3
- 3

#### Senior

#### First Term
- ARS 440  
- ARH 460

#### Hours Second Term
- 3 ARH 489  
- 3 ARH 464

#### Hours
- 3
- 3

---

Total credit hours: 46

---

### Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Photography)

#### Freshman

#### First Term
- ARS 100  
- ARS 101  
- Freshman Year Experience

#### Hours Second Term
- 3 ARS 102  
- 3 ARS 105  
- 1

#### Hours
- 3
- 3
- 1

#### Sophomore

#### First Term
- ARH 204  
- ARS 220

#### Hours Second Term
- 3 ARS 210  
- 3 ARS 240

#### Hours
- 3
- 3

#### Junior

#### First Term
- ARS 310  
- ARS 340

#### Hours Second Term
- 3 ARS 310  
- 3

#### Hours
- 3
- 3

---

Total credit hours: 46

---

### Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Sculpture)

#### Freshman

#### First Term
- ARS 100  
- ARS 101  
- Freshman Year Experience

#### Hours Second Term
- 3 ARS 102  
- 3 ARS 105  
- 1

#### Hours
- 3
- 3
- 1

#### Sophomore

#### First Term
- ARH 204  
- ARS 220

#### Hours Second Term
- 3 ARS 210  
- 3 ARS 240

#### Hours
- 3
- 3

#### Junior

#### First Term
- ARS 310  
- ARS 340

#### Hours Second Term
- 3 ARS 310  
- 3

#### Hours
- 3
- 3

---

Total credit hours: 46

---
### Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Ceramic Sculpture)

#### Freshman
- **First Term**
  - ARS 100: 3 hours
  - ARS 101: 3 hours
  - Freshman Year Experience: 1 hour

- **Second Term**
  - ARS 102: 3 hours
  - ARS 105: 3 hours

#### Sophomore
- **First Term**
  - ARS 200: 3 hours
  - ARS 250: 3 hours
  - ARH 205: 3 hours

- **Second Term**
  - ARS 210: 3 hours
  - ARS 240: 3 hours

#### Junior
- **First Term**
  - ARS 300: 3 hours
  - ARS 310: 3 hours
  - ARS 340: 3 hours
  - ARH 421: 3 hours

- **Second Term**
  - ARS 302: 3 hours
  - ARS 310: 3 hours
  - ARS 341: 3 hours
  - ARH 422: 3 hours

#### Senior
- **First Term**
  - ARS 400: 3 hours
  - ARS 410: 3 hours
  - ARS 489: 3 hours
  - ARH 460: 3 hours

- **Second Term**
  - ARS 430: 3 hours
  - ARS 441: 3 hours
  - ARS 491: 3 hours
  - ARH 464: 3 hours

**Total credit hours: 46**

### Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Drawing)

#### Freshman
- **First Term**
  - ARS 100: 3 hours
  - ARS 101: 3 hours
  - Freshman Year Experience: 1 hour

- **Second Term**
  - ARS 102: 3 hours
  - ARS 105: 3 hours

#### Sophomore
- **First Term**
  - ARS 200: 3 hours
  - ARS 220: 3 hours
  - ARH 203: 3 hours

- **Second Term**
  - ARS 210: 3 hours
  - ARS 240: 3 hours

#### Junior
- **First Term**
  - ARS 300: 3 hours
  - ARS 310: 3 hours
  - ARS 340: 3 hours
  - ARH 421: 3 hours

- **Second Term**
  - ARS 302: 3 hours
  - ARS 310: 3 hours
  - ARS 341: 3 hours
  - ARH 422: 3 hours

- **Second Term**
  - ARS 400: 3 hours
  - ARS 410: 3 hours
  - ARS 489: 3 hours
  - ARH 460: 3 hours

- **Second Term**
  - ARS 430: 3 hours
  - ARS 441: 3 hours
  - ARS 491: 3 hours
  - ARH 464: 3 hours

**Total credit hours: 79**

### Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Graphic Design)

#### Freshman
- **First Term**
  - ARS 100: 3 hours
  - ARS 101: 3 hours
  - Freshman Year Experience: 1 hour

- **Second Term**
  - ARS 102: 3 hours
  - ARS 105: 3 hours

#### Sophomore
- **First Term**
  - ARS 200: 3 hours
  - ARS 220: 3 hours
  - ARH 203: 3 hours

- **Second Term**
  - ARS 210: 3 hours
  - ARS 240: 3 hours

#### Junior
- **First Term**
  - ARS 350: 3 hours
  - ARS 351: 3 hours
  - ARS 372: 3 hours

- **Second Term**
  - ARS 370: 3 hours
  - ARS 352: 3 hours
  - ARS 355: 3 hours

**Total credit hours: 73**
Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Painting)

**Freshman**

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**Sophomore**

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**Junior**

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**Senior**

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Total credit hours: 82

Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Photography)

**Freshman**

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**Junior**

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Total credit hours: 79

Total credit hours: 82

Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Printmaking)

**Freshman**

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Total credit hours: 79

Total credit hours: 79
Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Sculpture)

Freshman
First Term | Hours | Second Term | Hours
---|---|---|---
ARS 100 | 3 | ARS 102 | 3
ARS 101 | 3 | ARS 105 | 3
Freshman Year Experience | 1 | | 6

Sophomore
First Term | Hours | Second Term | Hours
---|---|---|---
ARS 220 | 3 | ARS 210 | 3
ARS 250 | 3 | ARS 230 | 3
ARH 204 | 3 | ARH 206 | 3

Junior
First Term | Hours | Second Term | Hours
---|---|---|---
ARS 300 | 3 | ARS 302 | 3
ARS 320 | 3 | ARS 320 | 3
ARS 330 | 3 | ARS 335 | 3
ARH 470 | 3 | ARH 478 | 3

Senior
First Term | Hours | Second Term | Hours
---|---|---|---
ARS 400 | 3 | ARS 420 | 3
ARS 430 | 3 | ARS 491 | 3
ARS 489 | 3 | ARS 464 | 3
ARS 460 | 3 | | 9

Total credit hours: 76

Requirements for a Minor in Art History

Requirements | Hours
---|---
ARH 204 Renaissance through Modern Art | 3

Ancient Medieval Art/Asian Art
Select one of the following: 3
- ARH 203 Ancient and Medieval Art
- ARH 205 African/Native American/Oceanic Art
- ARH 206 Survey of Asian Art

Art History Electives
Select four of the following: 12
- ARH 101 The Art Experience
- ARH 405 African Art
- ARH 407 Art of Rome
- ARH 409 Egypt in the Age of the Pyramids
- ARH 410 Imperial and Post Imperial Egypt
- ARH 419 Arts of Death in the Middle Ages
- ARH 421 Italian Renaissance Art
- ARH 422 The Birth of Painting: Portable Pictures Across Renaissance Europe
- ARH 423 Study Abroad: European Art
- ARH 424 Northern Renaissance Art
- ARH 430 Eighteenth-Century Art in Europe
- ARH 431 European Painting in the Seventeenth Century
- ARH 435 Arts of Power in Early Modern Europe
- ARH 440 19th-Century Art I: Neoclassicism, Romanticism, and Realism
- ARH 441 19th-Century Art II: Impressionism, Post-Impressionism, and Symbolism
- ARH 450 American Art to 1900
- ARH 460 Twentieth-Century Art to 1945
- ARH 461 Modern Design
- ARH 464 Art Since 1945
- ARH 465 Aspects of Contemporary Art
- ARH 467 Modern Architecture
- ARH 468 Race and Representation
- ARH 470 The Art and Culture of China
- ARH 471 Topics in Asian Cinema
- ARH 473 Japanese Prints/Printmakers
- ARH 474 Chinese Painting
- ARH 475 Japanese Art
- ARH 477 Art and Architecture of India
- ARH 478 Buddhist Arts of Asia
- ARH 479 Art & Culture of Asia: Study Abroad
- ARH 480 Art Criticism and Theory
- ARH 482 Special Topics: Modern Art
- ARH 483 Special Topics: Gender and the Visual Arts
- ARH 485 Special Topics: Museum Studies
- ARH 487 Special Topics: Field Study
- ARH 490 Seminar: Art Theory

Total Hours 18

Requirements for a Minor in Art Studio

Requirements | Hours
---|---
Introductory Art Studio
Required core: 15
- ARS 100 Introduction to Drawing
- ARS 101 Two-Dimensional Design
- ARS 102 Three-Dimensional Design
- ARS 103 Digital Imaging & Design
- ARS 105 Introduction to Drawing II

Beginning Art Studio
Select one of the following: 3
- ARS 200 Beginning Drawing
- ARS 210 Beginning Painting
- ARS 220 Beginning Sculpture
- ARS 230 Beginning Ceramic Sculpture
- ARS 240 Beginning Printmaking
- ARS 241 Beginning Lithography
- ARS 250 Introduction to Graphic Design
- ARS 252 Introduction to Typography
- ARS 260 Intro to Time Based Media
- ARS 270 Beginning Photography
- ARS 295 Special Topics in Studio Art: Beginning

Intermediate Art Studio
Select one of the following: 3
- ARS 300 Intermediate Drawing
- ARS 302 Figure Drawing
- ARS 310 Intermediate Painting
The Honors Program in Art History is designed for outstanding art history students. Through a program emphasizing critical analysis, enhanced writing and original research proficiencies, students will develop skills necessary to professional careers in the arts and humanities and to further graduate study.

Benefits

Students will work closely with faculty mentor and develop extensive research and writing skills. They will also receive a certificate at the spring UAB Honors Convocation and will graduate “With Honors in Art History.”

Eligibility

To be accepted into the Honors Program in Art History, a student must:

- Be a B.A. Art major (Concentration in Art History).
- Have at least a 3.5 GPA in Art History courses.
- Have at least a 3.0 GPA overall.
- Have completed at least 12 hours in art history, 3 hours of which must be at the 400-level.
- Submit an Art History Honors Program application form to the B.A. Art History Advisor for the Department of Art and Art History.

Application forms can be obtained from and turned in to the B.A. Art History Advisor, c/o Art History Office (Education Building 238J1). The Department Chair approves admission into the program in consultation with the art history faculty. Admission is acknowledged by a formal letter from the Chair.

Requirements

- Complete all required courses for the B.A. Art (Art History concentration) major.
- Maintain a 3.5 GPA in art history and 3.0 GPA overall.
- In the senior year, complete ARH 489 Honors Thesis. This course may fulfill one of the art history 400-level elective requirements for the degree. Student should have completed ARH 489 as a prerequisite (capstone course for B.A. Art major)
- Complete all required courses for the B.A. Art (Art History concentration) major.

- ARH 499 Honors Thesis is a directed study course where the student will work intensively with a faculty mentor to write a formal, extensive research paper on a topic of the student’s choice.
- Prior to registration in ARH 499, typically the preceding semester, the student will select a member of the art history faculty to serve as faculty mentor and submit a thesis project proposal (3-5 pages in length plus bibliography).
- Upon approval of the proposal by the faculty mentor, student may register in ARH 499.
- Formatting, title page, and length guidelines for the thesis may be obtained from the Art History office or faculty mentor.
- Obtain signature of faculty mentor on Honors Thesis final approval form (form may be obtained from Art History office or faculty mentor).
- Submit 3 copies of signed approval form to B.A. Art History Advisor, c/o Art History Office (Education Building 238J1); original will go to departmental Chair’s office, 1 copy to art history office files, 1 copy to faculty mentor.
- Signed approval form must be submitted by last day of classes (Fall and Spring semesters only), preceding the week of final exams.
- Submission of archival, electronic copy of the thesis to the Art and Art History Department.

Contact

For more information and/or admission to the Art History Honors Program, please contact: B.A. Advisor for Art History, Department of Art and Art History, EB 238J1, 205-975-0693.

Department of Biology

Chair: Steven N. Austad

The Department of Biology has experienced faculty dedicated to research and teaching with interests ranging from the molecular to the ecological level. The broad expertise of our faculty allows diverse emphasis in cellular, molecular, developmental, environmental, evolutionary, genetic, marine, and organismal biology. Our faculty have been recognized by the University and by national and international biological organizations for their excellence in research and teaching.

The curriculum in biology provides general and specific courses for non-majors and prepares the major for graduate study in biology; the professional schools of human and veterinary medicine, dentistry, optometry, and allied health sciences. Additionally, the curriculum prepares the non-major and major student with knowledge required for careers in secondary science education, environmental education, wildlife management in both the public and private sectors, and other careers dependent upon comprehension of biological sciences. The Department of Biology also has a well established Honors curriculum for those students who excel in academics and wish to participate in biological research. This program allows students to conduct research under the mentorship of faculty in the Department of Biology or the School of Medicine, and to graduate with departmental honors. The department offers the following B.S. degrees in biology as well as a minor in biology:
Grade Point Average (Majors and Minors)

A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average.

Transfer Credit

Biology courses in which a grade of D is earned at another institution cannot be applied toward requirements for the major or minor. Students will not be given more credit (semester hours) toward the major or minor than awarded for equivalent courses at UAB, nor more than 8 semester hours of credit in any introductory sequence or combination of courses. Excess hours in these courses may, however, be applied as electives toward the 120 semester hours necessary to satisfy the general degree requirements.

A minimum of 9 semester hours in the major and 6 semester hours in the minor in biology must be taken at UAB.

Graduate Programs

The Department of Biology offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. Further information may be found in the UAB Graduate School Catalog.

Accelerated Master of Science Programs

Fifth Year M.S. Program

The Department of Biology offers an opportunity to earn a B.S. and an M.S. degree in a total of five years. This program offers qualified students mentorship during undergraduate study and supplements professional degrees such as medicine, dentistry, and optometry. The student works closely with a faculty member in an area of intensive research which prepares the student for a Ph.D. degree program in the biological sciences or a future health professions career. It also builds teaching skills for academic careers. Admission to the program requires a minimum 3.25 grade point average; three letters of recommendation; an interview with the admissions committee; and a satisfactory score on the Graduate Record Examination by fall of the senior year. For additional information, please contact Dr. Stephen Watts, Graduate Program Director, at (205) 934-2045 or sawatts@uab.edu.

Major in Biology (p. 112)

Major in Biology - Marine Science Concentration (p. 113)

Major in Biology - Molecular Biology Concentration (p. 114)

Major Requirements for Biology - General Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
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<tr>
<td>or PH 221</td>
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<tr>
<td>&amp; PH 222</td>
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<tr>
<td>BY 123</td>
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<tr>
<td>BY 124</td>
<td></td>
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<tr>
<td>Genetics</td>
<td></td>
</tr>
<tr>
<td>BY 210</td>
<td></td>
</tr>
<tr>
<td>Ecology &amp; Evolution</td>
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<td>BY 429</td>
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<tr>
<td>BY 435</td>
<td></td>
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<td>BY 467</td>
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<tr>
<td>BY 470</td>
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<tr>
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<tr>
<td>BY 255</td>
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<tr>
<td>BY 256</td>
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<tr>
<td>BY 271</td>
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<tr>
<td>BY 442</td>
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<td>BY 451</td>
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<td>BY 475</td>
<td></td>
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<tr>
<td>Cellular/Molecular</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
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<td>BY 311</td>
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<tr>
<td>BY 330</td>
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<tr>
<td>BY 434</td>
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<tr>
<td>BY 437</td>
<td></td>
</tr>
<tr>
<td>BY 469</td>
<td></td>
</tr>
<tr>
<td>Capstone Experience</td>
<td></td>
</tr>
<tr>
<td>Select one of the following (only one can count towards major):</td>
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</tr>
<tr>
<td>BY 490</td>
<td></td>
</tr>
<tr>
<td>BY 491</td>
<td></td>
</tr>
</tbody>
</table>

1 Includes Honors courses.

2 The major also accepts 24 semester hours of Biology courses approved for the major from an area of the general education requirements.

3 The major also accepts up to 12 semester hours of Biology courses approved for the major from an area of the general education requirements.
Electives
Select Biology (BY) courses to total the 40 hour Biology Requirement

1. Note: Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement

2. Biology Majors must complete 40 hours in Biology (BY) courses approved for the major, including BY 123 and BY 124 with a C or better (fulfilling Core Curriculum Area III and the courses taken to satisfy the requirements below. Additional courses to total 40 semester hours selected after consultation with an advisor and consideration of interests and career goals. At least 9 hours must be 400-level or higher. No more than 6 total hours of BY 394, BY 397, BY 398, and BY 492 can be applied towards the 40 hours of Biology (BY) courses. Warning: You cannot apply BY 101, BY 102, BY 111, BY 112, BY 116, or BY 261 toward the Biology major

GPA Requirement & Residency
A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of nine semester hours in the major must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Graduating Seniors
Students must take a biology major fields test and a departmental survey.

Core Curriculum
Students must take a Philosophy course that meets the QEP Ethics and Civic Responsibility Requirement, either PHL 115 or PHL 116.

Major in Biology with a Marine Science Concentration
The marine science concentration and the molecular biology track prepare students for careers in marine science or research careers in the basic or medically-related sciences.

Major Requirements for Biology with a Marine Science Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
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<tr>
<td>MA 125</td>
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</tr>
<tr>
<td>Calculus I</td>
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<td>Chemistry</td>
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<td>CH 115</td>
<td>3</td>
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<tr>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CH 116</td>
<td>1</td>
</tr>
<tr>
<td>General Chemistry I Laboratory</td>
<td></td>
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<tr>
<td>or CH 114</td>
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<tr>
<td>General Chemistry I Laboratory (Honors)</td>
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<td>CH 117</td>
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<tr>
<td>General Chemistry II</td>
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<td>CH 118</td>
<td>1</td>
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<tr>
<td>General Chemistry II Laboratory</td>
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<tr>
<td>or CH 119</td>
<td>3</td>
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<tr>
<td>General Chemistry II Laboratory (Honors)</td>
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<tr>
<td>CH 235</td>
<td>1</td>
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<tr>
<td>Organic Chemistry I</td>
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<tr>
<td>CH 236</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>or CH 234</td>
<td>1</td>
</tr>
<tr>
<td>Organic Chemistry I Laboratory (Honors)</td>
<td></td>
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<tr>
<td>CH 237</td>
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<td>Organic Chemistry II</td>
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<td>CH 238</td>
<td>1</td>
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<td></td>
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<tr>
<td>or CH 239</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry II Laboratory (Honors)</td>
<td></td>
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<tr>
<td>CH 460</td>
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<tr>
<td>Fundamentals of Biochemistry</td>
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<tr>
<td>or CH 461</td>
<td></td>
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<tr>
<td>Advanced Biochemistry</td>
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Physics
Select one of the following:

<table>
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<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PH 201</td>
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<tr>
<td>College Physics I</td>
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<tr>
<td>&amp; PH 202</td>
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<tr>
<td>College Physics II</td>
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<tr>
<td>PH 221</td>
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<tr>
<td>General Physics I</td>
<td></td>
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<tr>
<td>&amp; PH 222</td>
<td></td>
</tr>
<tr>
<td>General Physics II</td>
<td></td>
</tr>
</tbody>
</table>

Marine Science Electives
Select at least five Marine Environmental Science (MESC) courses approved by the academic advisor.

Biology Requirements
Biology majors must complete 40 hours in Biology (BY) or Marine Environmental Science (MESC) courses approved for the major.

Introductory Biology
BY 123 Introductory Biology I 4
BY 124 Introductory Biology II 4

Genetics
BY 210 Genetics 3

Ecology & Evolution
Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BY 470</td>
<td>3-4</td>
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<tr>
<td>Ecology</td>
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<tr>
<td>BY 429</td>
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<tr>
<td>Evolution</td>
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<tr>
<td>BY 474</td>
<td></td>
</tr>
<tr>
<td>Chemical Ecology</td>
<td></td>
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<tr>
<td>BY 435</td>
<td></td>
</tr>
<tr>
<td>Natural History of Vertebrates</td>
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<tr>
<td>BY 467</td>
<td></td>
</tr>
<tr>
<td>Population Ecology</td>
<td></td>
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<tr>
<td>MESC 411</td>
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<tr>
<td>Costal Wetlands Ecology</td>
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<tr>
<td>MESC 412</td>
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<tr>
<td>Marine Ecology</td>
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</table>

Organismal
Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BY 255</td>
<td>4</td>
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<tr>
<td>Invertebrate Zoology</td>
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<td>BY 256</td>
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<tr>
<td>Vertebrate Zoology</td>
<td></td>
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<tr>
<td>BY 271</td>
<td></td>
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<tr>
<td>Biology of Microorganisms</td>
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<tr>
<td>BY 442</td>
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<tr>
<td>Experimental Phychology</td>
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<tr>
<td>MESC 402</td>
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<tr>
<td>Marine Vertebrate Zoology</td>
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<tr>
<td>MESC 407</td>
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<tr>
<td>Marine Botany</td>
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<tr>
<td>MESC 413</td>
<td></td>
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<tr>
<td>Marine Invertebrate Zoology</td>
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</table>

Physiology and Development
Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
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<td>BY 314</td>
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<tr>
<td>Embryology</td>
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<tr>
<td>BY 409</td>
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<tr>
<td>Principles of Human Physiology</td>
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<td>BY 410</td>
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<tr>
<td>Comparative Animal Physiology</td>
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<tr>
<td>BY 420</td>
<td></td>
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<tr>
<td>General Endocrinology</td>
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<tr>
<td>BY 440</td>
<td></td>
</tr>
<tr>
<td>Immunology</td>
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<td>BY 451</td>
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<tr>
<td>Plant Biology</td>
<td></td>
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<tr>
<td>BY 475</td>
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<td>Comparative Developmental Biology</td>
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Cellular/Molecular
Select one of the following:

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<th>Requirement</th>
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<tbody>
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<td>BY 311</td>
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<tr>
<td>Molecular Genetics</td>
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</tbody>
</table>
BY 330  Cell Biology
BY 434  Functional Genomics and Systems Biology
BY 437  Epigenetics

Capstone Experience
Select one of the following (only one capstone course can count toward the major):
- BY 490  Biology Capstone - Principles of Human Physiology
- BY 491  Biology Capstone - Evolution
- BY 492  Biology Capstone - Undergraduate Research
- BY 493  Biology Capstone - Honors Research

Electives
Electives in Biology to total 40 hours

Total Hours 74-76

1 Note: Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement.

2 These hours include BY 123 and BY 124 with a C or better (fulfilling in Core Curriculum Area III) and the courses taken to satisfy the requirements below. All of the courses listed below are approved for the major; consult your advisor for a list of additional courses. At least 9 hours must be 400-level or higher. No more than 6 total hours of BY 394, BY 397, BY 398, and BY 492 can be applied towards the 40 hours of Biology (BY) courses. Warning: You cannot apply BY 101, BY 102, BY 111, BY 112, BY 116, or BY 261 toward the biology major.

GPA Requirement & Residency
A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of nine semester hours in the major must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

Additional Requirements
General Electives
Students must take general electives to reach the 120 semester hour requirement.

Graduating Seniors
Students must take a biology major fields test and a departmental survey.

Core Curriculum
Students must take a Philosophy course that meets the QEP Ethics and Civic Responsibility Requirement, either PHL 115 Contemporary Moral Issues or PHL 116 Bioethics.

Major Requirements for Biology with a Molecular Biology Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>CH 116  General Chemistry I Laboratory</td>
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<tr>
<td>or CH 114  General Chemistry I Laboratory (Honors)</td>
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</tr>
<tr>
<td>CH 117  General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 118  General Chemistry II Laboratory</td>
<td>1</td>
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<tr>
<td>or CH 119  General Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 235  Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 236  Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 234  Organic Chemistry I Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 237  Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 238  Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 239  Organic Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 460  Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CH 461  Advanced Biochemistry I</td>
<td></td>
</tr>
</tbody>
</table>

Physics
Select one of the following:
- PH 201 & PH 202 College Physics I and College Physics II
- PH 221 & PH 222 General Physics I and General Physics II

Biology Requirements
Biology Majors must complete 40 hours in Biology courses.

Introductory Biology ²
- BY 123  Introductory Biology I | 4 |
- BY 124  Introductory Biology II | 4 |

Required Molecular Track Courses
- BY 210  Genetics | 3 |
- BY 245  Fundamentals of Scientific Investigation | 3 |
- BY 271  Biology of Microorganisms | 4 |
- BY 311  Molecular Genetics | 3 |
- BY 330  Cell Biology | 3 |
- BY 434  Functional Genomics and Systems Biology | 3 |

Molecular Track Elective
Select three of the following:
- BY 416  Cellular Physiology | 9 |
- BY 431  Principles of DNA Technology |
- BY 433  Advanced Molecular Genetics |
- BY 440  Immunology |

Capstone Experience
Select one of the following (only one capstone course can count towards the major):
- BY 490  Biology Capstone - Principles of Human Physiology |
- BY 491  Biology Capstone - Evolution |
- BY 492  Biology Capstone - Undergraduate Research |
- BY 493  Biology Capstone - Honors Research |

Elective Courses
Electives in Biology to total 40 hours.

Total Hours 71

¹ Note: Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement.
Including BY 123 and BY 124 with a C or better (fulfilling Core Curriculum Area III) and the courses taken to satisfy the requirements below. All of the courses listed below are approved for the major; consult your advisor for a list of additional courses. At least 9 hours must be 400-level or higher. No more than 6 total hours of BY 394, BY 397, BY 398, and BY 492 can be applied towards the 40 hours of Biology (BY) courses. Warning: You cannot apply BY 101, BY 102, BY 111, BY 112, BY 116, or BY 261 toward the biology major.

GPA Requirement & Residency
A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of nine semester hours in the major must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

Additional Requirements
General Electives
Students must take general electives to reach the 120 semester hour requirement.

Graduating Seniors
Students must take a biology major fields test and a departmental survey.

Core Curriculum
Students must take a Philosophy course that meets the QEP Ethics and Civic Responsibility Requirement, either PHL 115 or PHL 116.

Proposed Program of Study for a Major in Biology

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 106</td>
<td>3 MA 125</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CH 115 &amp; 115R</td>
<td>3 EH 102</td>
<td>3</td>
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<tr>
<td>CH 116 &amp; 115R</td>
<td>1 BY 123 &amp; 123L</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EH 101 &amp; 117R</td>
<td>3 CH 117 &amp; 117R</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CAS Freshman Year Experience</td>
<td>1 CH 118</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II or Area IV</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td>Cellular or Molecular Biology</td>
<td>3 Organismal Biology</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PH 201</td>
<td>4 PH 202</td>
<td>4</td>
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<tr>
<td>PH 201R &amp; 201L</td>
<td>4 &amp; 202R &amp; 202L</td>
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</tr>
<tr>
<td>Biology Elective</td>
<td>3 Elective</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td>Senior</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td>Physiology/Development</td>
<td>4 Biology Elective</td>
<td>4</td>
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<tr>
<td>Ecology/Evolution</td>
<td>4 Biology Electives</td>
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<tr>
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<td>3 Electives</td>
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</tr>
<tr>
<td>Core Curriculum Area II or IV</td>
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<td>Total credit hours: 122</td>
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<td>17</td>
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</table>

1 Assumes student is placed in MA 106.
2 Assumes student has had one year of high school Chemistry with a grade of C or better.
3 Assumes no Advanced Placement (AP), Dual Enrollment, International Baccalaureate (IB), or College Level Examination Program (CLEP) credit.
4 Must complete either a two History Core IV or two Literature Core II sequence.
5 BY 101, BY 102, BY 111, BY 112, BY 116, and BY 261 do not count toward Biology Electives.
6 Must earn a Biology GPA of at least 2.0.
7 See your Biology Advisor once each term.

Proposed Program of Study for a Major in Biology with a Concentration in Marine Science

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MA 106</td>
<td>3 MA 125</td>
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<td>4</td>
<td></td>
</tr>
<tr>
<td>CH 115 &amp; 115R</td>
<td>3 EH 102</td>
<td>3</td>
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<td></td>
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<tr>
<td>CH 116 &amp; 115R</td>
<td>1 BY 123 &amp; 123L</td>
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<td>4</td>
<td></td>
</tr>
<tr>
<td>EH 101 &amp; 117R</td>
<td>3 CH 117 &amp; 117R</td>
<td>3</td>
<td>3</td>
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<tr>
<td>CAS Freshman Year Experience</td>
<td>1 CH 118</td>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>Sophomore</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td>CH 235 &amp; 235R</td>
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<tr>
<td>CH 236</td>
<td>1 CH 238</td>
<td>1</td>
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</tr>
<tr>
<td>BY 124 &amp; 124L</td>
<td>4 BY 210</td>
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</tr>
<tr>
<td>PHL 115 or 116</td>
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</tr>
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</table>

1 Assumes student is placed in MA 106.
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4 Must complete either a two History Core IV or two Literature Core II sequence.
5 BY 101, BY 102, BY 111, BY 112, BY 116, and BY 261 do not count toward Biology Electives.
6 Must earn a Biology GPA of at least 2.0.
7 See your Biology Advisor once each term.

Proposed Program of Study for a Major in Biology with a Concentration in Marine Science

<table>
<thead>
<tr>
<th>Sophomore</th>
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<th>Hours</th>
<th>Second Term</th>
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</thead>
<tbody>
<tr>
<td>CH 235 &amp; 235R</td>
<td>3 CH 237 &amp; 237R</td>
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<td>CH 236</td>
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<td>BY 124 &amp; 124L</td>
<td>4 BY 210</td>
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<tr>
<td>PHL 115 or 116</td>
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<td>Total credit hours: 122</td>
<td>17</td>
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</table>
Proposed Program of Study for a Major in Biology with a Concentration in Molecular Biology

### Freshman

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
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<tr>
<td>First Term</td>
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<td></td>
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<tr>
<td>MA 106</td>
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<tr>
<td>CH 116</td>
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<td>EH 101</td>
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<td>CAS Freshman Year</td>
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### Sophomore

<table>
<thead>
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<th>Notes</th>
</tr>
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<tbody>
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<td>First Term</td>
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<tr>
<td>CH 235 &amp; 235R</td>
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<tr>
<td>CH 236</td>
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</tr>
<tr>
<td>BY 124</td>
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<td></td>
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<tr>
<td>BY 124</td>
<td>4</td>
<td></td>
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<tr>
<td>Biology Elective</td>
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<td></td>
</tr>
<tr>
<td>Elective</td>
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<td></td>
</tr>
<tr>
<td>Core Curriculum Area II or Area IV</td>
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<tr>
<td>Elective</td>
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<tr>
<td>Total</td>
<td>15-16</td>
<td>15-16</td>
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</tbody>
</table>

### Junior

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
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<tr>
<td>BY 311</td>
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<td></td>
</tr>
<tr>
<td>BY 433 or 416</td>
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<td></td>
</tr>
<tr>
<td>BY 440</td>
<td>3</td>
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<tr>
<td>CH 460 or 461</td>
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<tr>
<td>Biology Elective</td>
<td>3-4</td>
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</tr>
<tr>
<td>Elective</td>
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</tr>
<tr>
<td>Total</td>
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<td>13</td>
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</tbody>
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### Senior

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<tr>
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<tbody>
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<td>First Term</td>
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<td></td>
</tr>
<tr>
<td>BY 433 or 416</td>
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<td></td>
</tr>
<tr>
<td>BY 440</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 460 or 461</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Biology Elective</td>
<td>3-4</td>
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</tr>
<tr>
<td>Elective</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
<td>15-16</td>
<td>15-16</td>
</tr>
</tbody>
</table>

1. Assumes student is placed in MA 106.
2. Assumes student has had one year of high school Chemistry with a grade of C or better.
3. Assumes no Advanced Placement (AP), Dual Enrollment, International Baccalaureate (IB), or College Level Examination Program (CLEP) credit.
4. Must complete at least one Literature Core II and two History Core IV or two Literature Core II and one History Core IV.
5. BY 101, BY 102, BY 111, BY 112, BY 116, and BY 261 do not count toward Biology electives.
6. Must earn Biology GPA of at least 2.0
7. See Biology Advisor once each term.
8. Some Biology (BY) courses rotate every other year or once a year, see advisor.
9. 18 hours Marine Science (MESC) courses (taken summers at sea lab) contribute to 40 hours in Biology.

### Minor Requirements for Biology

#### Requirements

- **Required Biology Courses (must earn a grade of C or better)**
  - BY 123 Introductory Biology I  1  4
  - BY 124 Introductory Biology II  1  4

1. Assumes student is placed in MA 106.
2. Assumes student has had one year of High School Chemistry with a grade of C or better.
3. Assumes no Advanced Placement (AP), Dual Enrollment, International Baccalaureate (IB), or College Level Examination Program (CLEP) credit.
4. Must complete at least one Literature Core II and two History Core IV or two Literature Core II and one History Core IV.
5. BY 101, BY 102, BY 111, BY 112, BY 116 and BY 261 do not count toward Biology electives.
6. Must earn a Biology GPA of at least 2.0
7. See Biology Advisor once each term.
8. Some Biology (BY) courses rotate every other year (BY 245) see advisor.
9. Biochemistry - CH 460 is taught summer and fall. CH 461 is only offered in the fall.
Biology Honors Program, students who complete the program will be honored at the annual Biology Honors Research Day and will graduate “With Honors in Biology.”

Contact
For more information and/or admission to the Biology Honors Program, contact Dr. Thane Wibbels, Campbell Hall, Room 255A, Birmingham, AL 35294-1170; Telephone (205) 934-4419 or E-mail twibbels@uab.edu

Department of Chemistry
Chair: David E. Graves

The Department of Chemistry provides several undergraduate degree programs for chemistry majors and general course offerings for non-majors. All B.S. degrees are designed to comply with American Chemical Society (ACS) accreditation standards and provide a strong foundation in chemistry that prepares students to be highly qualified to work as professional chemists, pursue advanced studies leading to the Ph.D. degree in chemistry or biochemistry, or gain admission to professional schools in medicine, dentistry, optometry, pharmacy, work as forensic chemists in regional, state, and federal forensic laboratories, work as professional chemists in industrial or government laboratories, or work as chemistry educators.

The department offers the following ACS-approved B.S. degrees in chemistry as well as a minor in chemistry:

1. Major in Chemistry
2. Major in Chemistry with a Biochemistry Track
3. Major in Chemistry with a Chemical Education Track
4. Major in Chemistry with a Forensic Chemistry Track
5. Major in Chemistry with a Polymer Chemistry Track

The B.S. degree in chemistry with a biochemistry track, or a B.S. degree in chemistry, with biology as a minor, is recommended for students with career interests in medicine, dentistry, optometry, pharmacy, or other health-related fields. Students whose interests include careers in federal, state, or local forensic laboratories are encouraged to obtain a degree in chemistry with the forensic chemistry track.

Brochures that delineate the required curricula and career opportunities associated with the B.S. degree in chemistry and all available options, an annual schedule of courses, and a suggested program of study are available from the Department of Chemistry Advising Office and on the Department of Chemistry website (www.uab.edu/chemistry).

An exciting feature of the Department of Chemistry’s B.S. degree is the opportunities for undergraduate chemistry majors to participate in world-class research programs. Students are encouraged to become involved in research early in their undergraduate careers. Students are engaged in all aspects of meaningful and significant research programs covering a variety of projects and encompassing every area of chemistry, biochemistry, and extending into interdisciplinary programs within the UAB biomedical research complex. Students demonstrating success in their research projects are encouraged to present their work at regional and national scientific meetings supported by departmental travel grants.

All students majoring in chemistry are required to meet with the Department of Chemistry Undergraduate Advisor (Mr. James Grimes) each term prior to registration (205-934-7529) or chemadvise@uab.edu.

GPA Requirement & Residency
A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of six semester hours in the minor must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

Honors Program in Biology
Purpose
The Biology Honors Program offers motivated students the opportunity to develop research and communication skills in preparation for a graduate or professional career.

Eligibility
To be accepted into the Biology Honors Program, a student must:

• Have earned a 3.5 GPA in biology courses attempted.
• Have earned a 3.0 GPA overall.
• Have completed 18 semester hours in biology courses.
• Have enrolled in BY 398 (Undergraduate Research) for at least one semester hour.
• Have arranged with a faculty sponsor in biology to do a research project.

Requirements
Students in the Biology Honors Program will be required to have the following:

• Six semester hours in BY 498 (Honors Research), with each semester hour per term requiring a minimum of four hours of laboratory work per week.
• A formal research proposal, submitted by the end of the first semester of Honors Research, including an introduction, proposed methods, and relevant literature citation.
• A formal written report in the form of a scientific paper.
• An oral or poster presentation at Biology Research Day or the UAB Expo.

In some instances, it will be recommended that biology honors students give a formal presentation of their work at a scientific meeting. Funds may be provided to support participation at such a meeting.

Benefits
In addition to the educational and career benefits of participation in the Biology Honors Program, students who complete the program will be

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 210</td>
<td>Genetics</td>
</tr>
</tbody>
</table>

Biology Electives
Select 6 hours from 200-level or higher Biology (BY) courses.

Total Hours 17

1 Note: BY 123 and BY 124 may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.
2 Not more than a total of three hours in BY 397, BY 398, and BY 498 may be counted toward the minor.
Grade Point Average
At least a 2.0 average for all required chemistry courses and a 2.0 average for all required chemistry courses taken at UAB are compulsory for either a major or minor in chemistry. The current UAB course repeat policy and course forgiveness policy will be used in calculating the grade point average.

Transfer Credit
Chemistry courses in which a grade of D or F is earned at another institution cannot be applied toward requirements for the chemistry major or minor. Students will not be given more semester-hours credit toward the major or minor than awarded for equivalent courses at UAB. Transfer students must complete at least two of the following courses (with laboratories) at UAB, and at least one of these courses must be at the 200 level or higher in order to qualify for the minor:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115: General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 117: General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 235: Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 237: Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 325: Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics</td>
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</tr>
<tr>
<td>CH 326: Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy</td>
<td>3</td>
</tr>
<tr>
<td>CH 345: Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
<td>4</td>
</tr>
<tr>
<td>CH 355: Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CH 440: Transition Metal Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CH 450: Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CH 480: Polymer Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CH 481: Polymer Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

A minimum of nine semester hours required for the major (at or above the 400 level) must be completed at UAB. Courses taken under the Cooperative Exchange Program must be approved in advance and in writing by the department chair in order for those courses to be accepted for credit. Online chemistry lectures and/or online chemistry labs are NOT acceptable for credit toward the chemistry major or chemistry minor.

Core Curriculum for Chemistry
Refer to Core Curriculum (p. 294)

Graduate Programs
The Department of Chemistry offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. Further information may be obtained from the Chair of the Department of Chemistry, the UAB Graduate School Catalog, or the departmental web site (http://www.uab.edu/chemistry).

Major in Chemistry (p. 118)
Major in Chemistry with a Biochemistry Track (p. 119)
Major in Chemistry with a Forensic Chemistry Track (p. 120)
Major in Chemistry with a Chemical Education Track (p. 120)
Major in Chemistry with a Polymer Chemistry Track (p. 121)

Major Requirements for Chemistry

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Mathematics Requirement</strong></td>
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<tr>
<td>MA 128: Calculus II</td>
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<td><strong>Physics</strong></td>
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<tr>
<td>Select one of the following:</td>
<td>8</td>
</tr>
<tr>
<td>PH 201 &amp; PH 202: College Physics I</td>
<td></td>
</tr>
<tr>
<td>or PH 221 &amp; PH 222: General Physics I</td>
<td></td>
</tr>
<tr>
<td><strong>Organic Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 235: Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>or CH 234: Organic Chemistry I Laboratory (Honors)</td>
<td>1</td>
</tr>
<tr>
<td>CH 237: Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 238: Organic Chemistry II Laboratory</td>
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<tr>
<td><strong>Analytical / Inorganic / Physical Chemistry</strong></td>
<td></td>
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<tr>
<td>CH 325: Physical Chemistry I with Calculus:</td>
<td>4</td>
</tr>
<tr>
<td>Thermodynamics and Chemical Kinetics</td>
<td></td>
</tr>
<tr>
<td>CH 345: Inorganic Chemistry: Principles and</td>
<td>4</td>
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<tr>
<td>Applications of Chemical Periodicity</td>
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<tr>
<td>CH 355: Quantitative Analysis</td>
<td>4</td>
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<tr>
<td><strong>Physical/Transition Metal/Instrumental Chemistry</strong></td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>CH 326 &amp; CH 427: Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory</td>
<td>4</td>
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<tr>
<td>CH 440 &amp; CH 427: Transition Metal Chemistry</td>
<td></td>
</tr>
<tr>
<td>or CH 450 &amp; 450L: Instrumental Analysis Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Biochemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 460: Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Chemistry Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-6</td>
</tr>
<tr>
<td>CH 326: Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy</td>
<td></td>
</tr>
<tr>
<td>CH 440: Transition Metal Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 450: Instrumental Analysis</td>
<td></td>
</tr>
<tr>
<td>CH 451: Chemometrics</td>
<td>2</td>
</tr>
<tr>
<td>CH 461: Advanced Biochemistry I</td>
<td>2</td>
</tr>
</tbody>
</table>
CH 462  Advanced Biochemistry II ²
CH 463  Biochemistry Laboratory
CH 464  Physical Biochemistry Laboratory
CH 471  Medicinal Chemistry and Drug Discovery ²
CH 472  Chemistry of Natural Products ²
CH 480  Polymer Chemistry I
CH 481  Polymer Chemistry II
CH 497  Undergraduate Research (two terms strongly recommended)

Capstone Requirement
Select one of the following: ³-⁴
CH 493  Chemistry in Culture & Ethics
or CH 495  Ethics in Chemical Research
& CH 497  and Undergraduate Research

Total Hours 45-49

¹  The calculus-based PH 221 - PH 222 sequence is strongly recommended.
²  To count this course as the chemistry elective requires also taking CH 297 Undergraduate Research Experiences before graduation

GPA and Residency Requirement
• At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.
• A minimum of nine semester hours in the major at or above the 400 level must be taken at UAB.
• The current UAB course forgiveness policy will be used in calculating the grade point average.
• No "D" or "F" grades in chemistry courses are applied from transfer credit toward the chemistry major.
• Online chemistry lectures and/or online chemistry labs are NOT acceptable for credit toward the chemistry major or minor.

Additional Requirements
Requirements  Hours
General Electives  15-19
Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.

Total Hours  15-19

Major Requirements for Chemistry with Biochemistry Track
Requirements  Hours
Mathematics Requirements
MA 126  Calculus II  4
Biology
BY 123  Introductory Biology I  4
BY 124  Introductory Biology II  4
Biology
Select one of the following: ³-⁴
BY 210  Genetics
BY 271  Biology of Microorganisms
BY 330  Cell Biology

Select one of the following:
PH 201  College Physics I
& PH 202  and College Physics II
PH 221  General Physics I
& PH 222  and General Physics II ¹

Organic Chemistry
CH 235  Organic Chemistry I  3
CH 236  Organic Chemistry I Laboratory
or CH 234  Organic Chemistry I Laboratory (Honors)
CH 237  Organic Chemistry II  3
CH 238  Organic Chemistry II Laboratory
or CH 239  Organic Chemistry II Laboratory (Honors)

Analytical / Inorganic / Physical Chemistry
CH 325  Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics  4
CH 345  Inorganic Chemistry: Principles and Applications of Chemical Periodicity  4
CH 355  Quantitative Analysis  4

Physical/Transition Metal/Instrumental Chemistry
Select one of the following: ³-⁴
CH 326  Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy
& CH 427  and Molecular Structure and Spectroscopy Laboratory
CH 440  Transition Metal Chemistry
& CH 427  and Molecular Structure and Spectroscopy Laboratory
CH 450  Instrumental Analysis
& 450L  and Instrumental Analysis Laboratory

Biochemistry
CH 460  Fundamentals of Biochemistry  3
CH 461  Advanced Biochemistry I  3

Biochemistry Elective
Select one of the following: ³
CH 462  Advanced Biochemistry II
CH 463  Biochemistry Laboratory
CH 464  Physical Biochemistry Laboratory

Capstone Requirement
Select one of the following: ³-⁴
CH 493  Chemistry in Culture & Ethics
or CH 495  Ethics in Chemical Research
& CH 497  and Undergraduate Research

Total Hours  59-61

¹  The calculus based PH 221 & PH 222 is strongly recommended.
Additional Requirements

Requirements Hours
General Electives
Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.

Total Hours 15-19

Major Requirements for Chemistry with Forensic Chemistry Track

Requirements Hours
Mathematics Requirements
MA 126 Calculus II 4

Communication Studies
CMST 101 Public Speaking 3

Biology 2
BY 123 Introductory Biology I 4
BY 124 Introductory Biology II 4
BY 210 Genetics 3
BY 311 Molecular Genetics 3
BY 429 Evolution 3

Physics
Select one of the following: 8
- PH 201 & PH 202 College Physics I and College Physics II
- PH 221 & PH 222 General Physics I and General Physics II 2

Organic Chemistry
CH 235 Organic Chemistry I 3
CH 234 Organic Chemistry I Laboratory (Honors) 1
or CH 236 Organic Chemistry I Laboratory
CH 237 Organic Chemistry II 3
CH 238 Organic Chemistry II Laboratory 1
or CH 239 Organic Chemistry II Laboratory (Honors)

Analytical/Inorganic/Physical Chemistry
CH 325 Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics 4
CH 326 & CH 427 Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory 4
CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity 4

CH 355 Quantitative Analysis 4
CH 450 Instrumental Analysis 4

Biochemistry
CH 460 Fundamentals of Biochemistry 3
CH 463 Biochemistry Laboratory 3

Justice Science
JS 110 Introduction to Forensic Science 3
JS 120 Introduction to Statistics 3
JS 250 Criminalistics: An Overview 3
or JS 350 Advanced Criminalistics
JS 352 Forensic Science Laboratory II 3
JS 567 Forensic Toxicology 3
or JS 677 Advanced Forensic Toxicology

Internship

CH 297 Undergraduate Research Experiences 4 1

Research
CH 497 Undergraduate Research 3

Capstone Requirement
Select one of the following: 1-3
- CH 493 Chemistry in Culture & Ethics
- or CH 495 Ethics in Chemical Research

Total Hours 86-88

1 Completion automatically satisfies three semester hours of Core Curriculum Area II: Fine Art & Humanities.
2 These courses may constitute a biology minor; please see biology department advisor or GPS if interested in this minor.
3 The calculus based sequence PH 221 & PH 222 is strongly recommended.
4 Requires formal admission to the forensic chemistry track.

GPA and Residency Requirement
- A student may apply for admission to the forensic chemistry track upon successful completion of CH 237 Organic Chemistry II and CH 238 Organic Chemistry II Laboratory or CH 239 Organic Chemistry II Laboratory (Honors).
- A minimum of nine semester hours of required chemistry courses in the major must be taken at UAB prior to admission to this track.
- At least a 3.0 grade point average in all required chemistry courses and a 3.0 average in all required chemistry courses taken at UAB must be achieved for admission to the forensic chemistry track.
- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB must be achieved for a major in chemistry with the forensic chemistry track.
- A minimum of nine semester hours at or above the 400 level in the major must be taken at UAB. The current UAB course forgiveness policy will be used in calculating the grade point average.
- No “D” or “F” grades in chemistry courses are applied from transfer credit to meet these requirements.
- Online chemistry lectures and/or online chemistry labs are NOT acceptable for credit toward the chemistry major or minor.

Additional Requirements

FYE/FLC Requirement
Students must also fulfill the FYE/FLC Requirement, if applicable.

Major Requirements for Chemistry with Chemical Education Track

Requirements Hours
Mathematics Requirement
MA 126 Calculus II 4

Physics
Select one of the following: 8
- PH 201 & PH 202 College Physics I and College Physics II
- PH 221 & PH 222 General Physics I and General Physics II 1

Organic Chemistry
CH 235 Organic Chemistry I 3
The University of Alabama at Birmingham

CH 236 Organic Chemistry I Laboratory 1
or CH 234 Organic Chemistry I Laboratory (Honors)
CH 237 Organic Chemistry II 3
CH 238 Organic Chemistry II Laboratory 1
or CH 239 Organic Chemistry II Laboratory (Honors)

**Analytical/Inorganic Chemistry**
- CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity 4
- CH 355 Quantitative Analysis 4

**Physical Chemistry**
Select one of the following: 4
- CH 325 Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics
  & CH 325L Physical Chemistry I Laboratory:
  Thermodynamics and Chemical Kinetics
- CH 326 Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy
  & CH 427 Molecular Structure and Spectroscopy Laboratory

**Biochemistry**
- CH 460 Fundamentals of Biochemistry 3

**Chemistry Electives**
Select one of the following: 3-6
- CH 325 Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics
- CH 326 Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy
- CH 440 Transition Metal Chemistry 2
- CH 450 Instrumental Analysis
- CH 451 Chemometrics 2
- CH 459 Spec Topics in Analytical Chem
- CH 461 Advanced Biochemistry I 2
- CH 462 Advanced Biochemistry II 2
- CH 463 Biochemistry Laboratory
- CH 464 Physical Biochemistry Laboratory
- CH 465 Structural Biochemistry
- CH 471 Medicinal Chemistry and Drug Discovery 2
- CH 472 Chemistry of Natural Products 2
- CH 480 Polymer Chemistry I
- CH 481 Polymer Chemistry II
- CH 497 Undergraduate Research (two terms strongly recommended)

**Chemistry Teaching Methods**
- CH 498 Chemistry Teaching Methods 3

**Capstone Requirement**
Select one of the following: 3-4
- CH 493 Chemistry in Culture & Ethics
- or CH 495 Ethics in Chemical Research
  & CH 497 and Undergraduate Research

**GPA and Residency Requirement**
- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB must be achieved for a major in the chemical education track.
- A minimum of nine semester hours in the major at or above the 400 level must be taken at UAB. The current UAB course forgiveness policy will be used in calculating the grade point average.
- No "D" or "F" grades in chemistry courses are applied from transfer credit toward the chemistry major.
- Online chemistry lectures and/or online chemistry labs are NOT acceptable for credit toward the chemistry major or minor.

**Additional Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Electives</td>
<td>31-34</td>
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<tr>
<td>Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.</td>
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<tr>
<td>Total Hours</td>
<td>31-34</td>
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**Major Requirements for Chemistry with Polymer Chemistry Track**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mathematics Requirement</strong></td>
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<tr>
<td>MA 126 Calculus II</td>
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<td><strong>Physics</strong></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PH 201 College Physics I</td>
<td></td>
</tr>
<tr>
<td>PH 202 and College Physics II</td>
<td></td>
</tr>
<tr>
<td>PH 221 General Physics I</td>
<td></td>
</tr>
<tr>
<td>PH 222 and General Physics II</td>
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</tr>
<tr>
<td><strong>Organic Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 236 Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 234 Organic Chemistry I Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 239 Organic Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td><strong>Analytical/Inorganic/Physical Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 325 Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics</td>
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<tr>
<td>CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
<td>4</td>
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<tr>
<td>CH 355 Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td><strong>Physical/Transition Metal/Instrumental Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>CH 326 Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy</td>
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<tr>
<td>CH 427 Molecular Structure and Spectroscopy Laboratory</td>
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<tr>
<td>CH 440 Transition Metal Chemistry</td>
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<tr>
<td>CH 427 and Molecular Structure and Spectroscopy Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 450 Instrumental Analysis</td>
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<tr>
<td>CH 450L and Instrumental Analysis Laboratory</td>
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<tr>
<td><strong>Biochemistry</strong></td>
<td></td>
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<tr>
<td>CH 460 Fundamentals of Biochemistry</td>
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<tr>
<td><strong>Polymer</strong></td>
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<tr>
<td>CH 480 Polymer Chemistry I</td>
<td>4</td>
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</table>
CH 481  Polymer Chemistry II  4

**Materials Science and Engineering**

MSE 280  Engineering Materials  3
MSE 413  Composite Materials  3
MSE 430  Polymeric Materials  3

**Capstone Requirement**

Select one of the following:  3-4
- CH 493  Chemistry in Culture & Ethics
- or CH 495  Ethics in Chemical Research
- & CH 497  and Undergraduate Research

Total Hours  60-61

1 The calculus based PH 221-PH 222 sequence is strongly recommended.
2 MSE 281 may be a required prerequisite.

**GPA Requirement**

- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB must be achieved for a major in the polymer chemistry track.
- A minimum of nine semester hours in the major at or above the 400 level must be taken at UAB.
- The current UAB course forgiveness policy will be used in calculating the grade point average.
- No “D” or “F” grades in chemistry courses are applied from transfer credit toward the chemistry major.
- Online chemistry lectures and/or online chemistry labs are NOT acceptable for credit toward the chemistry major or minor.

**Additional Requirements**

**Requirements**  Hours

**General Electives**

Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.  13-19

Total Hours  13-19

**Proposed Program of Study for a Major in Chemistry**

**ACS Approved (2014/2015)**

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First</td>
<td></td>
<td>Second</td>
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</tr>
<tr>
<td>CH 115 &amp; 115R</td>
<td>3 EH 102</td>
<td>CH 115 &amp; 115R</td>
<td>3</td>
</tr>
<tr>
<td>CH 116 &amp; 117R</td>
<td>1 CH 117</td>
<td>CH 116 &amp; 117R</td>
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<td>Core Curriculum (e.g. HY 101)</td>
<td>3 CH 238</td>
<td>Core Curriculum (e.g. PH 101)</td>
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<td>FYE/FLC Course (credit hours may vary)</td>
<td>2 CH 118</td>
<td>FYE/FLC Course (hours may vary)</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 MA 126</td>
<td>MA 125</td>
<td>4</td>
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<tr>
<td>MA 125</td>
<td>16</td>
<td>MA 125</td>
<td>4</td>
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</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CH 235 &amp; 235R</td>
<td>3 CH 237</td>
<td>CH 235 &amp; 235R</td>
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</table>

**Senior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First</td>
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<td>Second</td>
<td></td>
</tr>
<tr>
<td>CH 325 &amp; 325L</td>
<td>4 CH 326 or 440</td>
<td>CH 325 &amp; 325L</td>
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<td>CH 460</td>
<td>3 CH 427</td>
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<td>Electives</td>
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<td>Chemistry Elective (400 level)</td>
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<td>Electives</td>
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</table>

Total credit hours: 120-121

1 See GPS for list of courses that can satisfy core and/or major requirements.
2 The calculus based physics sequence PH 221 & PH 222 is strongly recommended instead of the PH 201 & PH 202 sequence.
3 CH 450/450L can substitute for CH 326/427 or CH 440/427.

**Proposed Program of Study for a Major in Chemistry with a Biochemistry Track**

**ACS Approved (2014-2015)**

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
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<td>Second</td>
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<tr>
<td>CH 115 &amp; 115R</td>
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<td>CH 116</td>
<td>1 EH 102</td>
<td>CH 116</td>
<td>1 EH 102</td>
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<tr>
<td>FYE/FLC Course (hours may vary)</td>
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<td>FYE/FLC Course (hours may vary)</td>
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<tr>
<td>EH 101</td>
<td>3 CH 117</td>
<td>EH 101</td>
<td>3 CH 117</td>
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<tr>
<td>MA 125</td>
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<tr>
<td>BY 123 &amp; 123L</td>
<td>17</td>
<td>BY 123 &amp; 123L</td>
<td>15</td>
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**Sophomore**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CH 235 &amp; 235R</td>
<td>3 CH 237</td>
<td>CH 235 &amp; 235R</td>
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</table>
### Freshman

<table>
<thead>
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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; 115R</td>
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<td>CH 118</td>
<td>3</td>
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<tr>
<td>CH 116</td>
<td>3</td>
<td>CH 117 &amp; 117R</td>
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<tr>
<td>FYE/FLC (Credit hours may vary)</td>
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<td>Core Curriculum (e.g. PHL 115)</td>
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</table>

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CH 125</td>
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<td>CH 126L</td>
<td>3</td>
<td>CH 325</td>
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<tr>
<td>Electives</td>
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<td>Core Curriculum (e.g. CMST 101)</td>
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</table>

### Junior

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<th>Second Term</th>
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<tbody>
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<td>CH 325</td>
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<td>CH 326</td>
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<tr>
<td>CH 326L</td>
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<td>Electives</td>
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</table>

### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CH 326</td>
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<tr>
<td>CH 326L</td>
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<td>Electives</td>
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</tbody>
</table>

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### Proposed Program of Study for a Major in Chemistry with a Chemical Education Track

**ACS Approved (2014/2015)**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; 115R</td>
<td>1</td>
<td>CH 118</td>
<td>3</td>
</tr>
<tr>
<td>CH 116</td>
<td>3</td>
<td>CH 117 &amp; 117R</td>
<td>3</td>
</tr>
<tr>
<td>FYE/FLC (Credit hours may vary)</td>
<td>2</td>
<td>Core Curriculum (e.g. PHL 115)</td>
<td>3</td>
</tr>
</tbody>
</table>

---

1. See GPS for list of courses that can satisfy core and/or major requirements.
2. The calculus-based physics sequence, PH 221 & PH 222, is strongly recommended, instead of the PH 201 & PH 202 sequence.
3. May also choose BY 330 or BY 271/BY 271L.
4. CH 450/450L may substitute for CH 326/325 or CH 440/427.

---

This program alone **DOES NOT** lead to certification to teach chemistry. Advising in the School of Education is STRONGLY recommended.

1. See GPS for list of courses that can satisfy core and/or major requirements.
2. The calculus-based physics sequence, PH 221 and PH 222, is strongly recommended, instead of the PH 201 and PH 202 sequence.
3. CH 326/427 can substitute for CH 325/325L.
Proposed Program of Study for a Major in Chemistry with a Forensic Chemistry Track

ACS Approved (2014/2015)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
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<tr>
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<td>&amp; 123L</td>
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<td>CH 235</td>
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<td>&amp; 237R</td>
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<td>JS 352</td>
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<td></td>
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<tr>
<td></td>
<td>JS 250 or 350</td>
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<td>CH 297</td>
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<td>CH 450</td>
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</table>

1 See GPS for list of courses that can satisfy core and/or major requirements.

2 The calculus-based physics sequence, PH 221 and PH 222, is strongly recommended, instead of the PH 201 and PH 202 sequence.

Proposed Program of Study for a Major in Chemistry with a Polymer Chemistry Track

ACS Approved (2014/2015)

<table>
<thead>
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<tr>
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<td>&amp; 237R</td>
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<td></td>
<td>&amp; 345R</td>
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<td>Core Curriculum (e.g. ANTH 101)</td>
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<td>CH 238</td>
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<td>CH 326</td>
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<td>&amp; 481L</td>
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Total credit hours: 122
Minor Requirements for Chemistry

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<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>Required Chemistry Courses</td>
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<tr>
<td>CH 115 General Chemistry I ¹</td>
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<tr>
<td>CH 114 General Chemistry I Laboratory (Honors) ¹</td>
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</tr>
<tr>
<td>or CH 116 General Chemistry I Laboratory</td>
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</tr>
<tr>
<td>CH 117 General Chemistry II ¹</td>
<td>3</td>
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<tr>
<td>CH 118 General Chemistry II Laboratory ¹</td>
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<tr>
<td>or CH 119 General Chemistry II Laboratory (Honors)</td>
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</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 234 Organic Chemistry I Laboratory (Honors)</td>
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</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
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<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
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</tr>
<tr>
<td>or CH 239 Organic Chemistry II Laboratory (Honors)</td>
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<tr>
<td>Chemistry Elective</td>
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<td>Select one of the following:</td>
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<tr>
<td>CH 325 Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics</td>
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<tr>
<td>CH 326 Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy</td>
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<tr>
<td>CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
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<tr>
<td>CH 355 Quantitative Analysis</td>
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<td>CH 440 Transition Metal Chemistry</td>
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<td>CH 450 Instrumental Analysis</td>
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<tr>
<td>CH 451 Chemometrics</td>
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<td>CH 459 Spec Topics in Analytical Chem</td>
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<tr>
<td>CH 460 Fundamentals of Biochemistry</td>
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<td>CH 461 Advanced Biochemistry I</td>
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<td>CH 462 Advanced Biochemistry II</td>
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<td>CH 463 Biochemistry Laboratory</td>
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<tr>
<td>CH 464 Physical Biochemistry Laboratory</td>
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<tr>
<td>CH 471 Medicinal Chemistry and Drug Discovery</td>
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<tr>
<td>CH 472 Chemistry of Natural Products</td>
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<tr>
<td>CH 480 Polymer Chemistry I</td>
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<tr>
<td>CH 481 Polymer Chemistry II</td>
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</tbody>
</table>

Total Hours: 19-20

¹ May also satisfy the Core Curriculum Area III: Natural Sciences requirement.

GPA & Residency Requirement
- At least a 2.0 average in required chemistry courses and a 2.0 average in required chemistry courses taken at UAB are mandatory for a minor in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.
- Chemistry courses in which a grade of "D" or "F" is earned at another institution cannot be applied toward requirements for the chemistry major or minor.
- Students will not be given more semester-hours credit toward the major or minor than awarded for equivalent courses at UAB.
- In addition to the requirements listed above, transfer students must complete at least two of these courses (with laboratories) at UAB, and at least one of these courses must be at the 200 level or higher in order to qualify for the minor.
- Online chemistry lectures and/or online chemistry labs are NOT acceptable for credit toward the chemistry major or minor.

Honors Program in Chemistry

Purpose
The Chemistry Honors Program is aimed toward outstanding chemistry majors and is designed to enhance the students’ problem solving, critical thinking, and communication skills. The program provides an excellent preparation for graduate school or professional careers.

Eligibility
Acceptance into the Chemistry Honors Program requires the student to:
- Have earned a 3.25 GPA in required chemistry courses attempted;
- Have earned a 3.0 GPA overall;
- Have completed the following courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 114 General Chemistry I Laboratory</td>
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</tr>
<tr>
<td>or CH 116 General Chemistry I Laboratory (Honors)</td>
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</tr>
<tr>
<td>CH 117 General Chemistry II</td>
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<tr>
<td>CH 118 General Chemistry II Laboratory</td>
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<td>CH 235 Organic Chemistry I</td>
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<tr>
<td>CH 234 Organic Chemistry I Laboratory (Honors)</td>
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<td>or CH 236 Organic Chemistry I Laboratory</td>
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<tr>
<td>CH 237 Organic Chemistry II</td>
<td>3</td>
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<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 239 Organic Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
</tbody>
</table>
- Have arranged with a faculty mentor to do a research project in chemistry; and
- Have submitted the honors program application form and a one-page honors research proposal to the Chemistry Honors Director.

Requirements
- Approval of the Chemistry Honors Director.
- Completion of 6 semester hours of undergraduate research CH 497.
- Students in the Chemistry Honors Program will be required to complete the following:
• Enrollment in Honors Thesis, CH 499, requiring a senior thesis written in ACS format for a scientific paper.
• An oral presentation and defense of the thesis before the student’s Honors Research Committee.

Where appropriate, the Honors Committee may recommend that chemistry honors students make a formal presentation of their work at the annual meeting of the Alabama Academy of Science or a regional or national meeting of the American Chemical Society.

Benefits
In addition to the benefits associated with a mentoring program that fosters a spirit of inquiry, independence, and initiative and integrates the student’s prior course work into a working knowledge of chemistry in the laboratory, the student who completes the program will graduate “With Honors in Chemistry.”

Contact
For more information and/or admission to the Chemistry Honors Program, contact

Dr. Gary Gray
Director of the Department of Chemistry Honors Program
Chemistry Building, Room 201
Birmingham, AL 35294-1240
Telephone (205) 934-8094
e-mail: gmgray@uab.edu

Department of Communication Studies

Interim Chair: Dr. John Wittig

The Department of Communication Studies is concerned with human interaction and communication in all of its forms. The department offers concentrations in Communication Management and Mass Communication.

Students interested in studying communication should consult the department chair or undergraduate coordinator as well as the requirements set by the College of Arts and Sciences.

Major in Communication Studies with Communication Management Concentration
The Communication Management concentration is designed for students interested in the general principles of communication from interpersonal relationships to the theory and practice of public dialogue. A minor is available in Communication Management for non-majors.

Major in Communication Studies with a Mass Communication Concentration
The Mass Communication concentration allows students to specialize in journalism, broadcasting, or public relations. Minors are available in Mass Communication. A Minor is required for a degree in Mass Communication.

Specializations
Students interested in developing a concentration in mass communication may select from one of three specializations available in the department: journalism, broadcasting, or public relations. Students specializing in one of the mass communication specializations may also major or minor in communication management.

Journalism
The curriculum in journalism is designed to prepare students for work with newspapers, magazines and company publications. In addition to courses in writing, reporting, and editing, the journalism program frequently offers special courses aimed at meeting the media demands of Birmingham, its people, and its publications.

Broadcasting
Students in broadcasting prepare for professional careers in television production, news operations, or management. In addition to skills courses, students are given a strong theoretical foundation designed for both the media professional and the potential graduate student in mass communication.

Public Relations
Public relations is a pre-professional program designed to acquaint students with the theoretical knowledge and the practical skills necessary for relating ideas and information to man “publics.” The program stresses writing, oral, and analytical skills.

Major Requirements for Communication Studies with Communication Management Concentration

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<th>Requirements</th>
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<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>CMST 105 Introduction to Human Communication</td>
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<tr>
<td>CMST 494 Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CMST 103 History of Mass Media (Required Courses)</td>
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<tr>
<td><strong>Communication Management Electives</strong></td>
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<tr>
<td>Select 30 credit hours from the following courses. At least 6 hours must be taken at the 400 level.</td>
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<tr>
<td>CMST 300 Human Communication in Everyday Life</td>
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<tr>
<td>CMST 305 Applied Communication Theory</td>
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<td>CMST 309 Interviewing</td>
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<td>CMST 310 Communication and Teamwork</td>
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<td>CMST 311 Organizational Communication</td>
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<td>CMST 315 Communication Leadership and Management</td>
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<td>CMST 322 Argumentation Theory</td>
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<tr>
<td>CMST 339 Introduction to Public Relations</td>
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<td>CMST 356 Propaganda and Public Persuasion</td>
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<td>CMST 380 Health Communication</td>
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<td>CMST 400 Professional Presentations</td>
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<td>CMST 401 Instructional Communication</td>
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<td>CMST 411 Organizational Communication Project</td>
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<td>CMST 414 Language &amp; Thought</td>
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<td>CMST 415 Intercultural &amp; International Communication</td>
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<td>CMST 455 Seminar in Political Communication</td>
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<tr>
<td>CMST 458 Media Criticism</td>
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<td>CMST 460 Communication and Social Movements in America</td>
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<td>CMST 481 Communication and Aging</td>
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<td>CMST 492 Independent Study</td>
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<td>CMST 493 Special Topics in Communication Studies</td>
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<td>CMST 494 Communication Research Methods</td>
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Total Hours 39
Major Requirements for Communication Studies with Mass Communication - Broadcasting Concentration

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<td>CMST 103 History of Mass Media</td>
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<td>CMST 105 Introduction to Human Communication</td>
<td>3</td>
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<tr>
<td>CMST 210 Newswriting and Reporting I</td>
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</tr>
<tr>
<td>CMST 283 Visual Media Production I</td>
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<tr>
<td>CMST 370 Fundamentals of Broadcast Journalism</td>
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<tr>
<td>CMST 371 Copywriting for Broadcast Media</td>
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<td>CMST 383 Visual Media Production II</td>
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<td>CMST 402 Mass Communication Law</td>
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<td>CMST 494 Communication Research Methods</td>
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<td>CMST 495 Mass Media and Society</td>
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<tr>
<td>Major Electives</td>
<td></td>
</tr>
<tr>
<td>Select six hours from 300-level or 400-level Communication Studies</td>
<td>6</td>
</tr>
<tr>
<td>Classes. At least one elective must be at the 400 level.</td>
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<tr>
<td>CMST 301 Classical Theories of Social Influence</td>
<td></td>
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<tr>
<td>CMST 305 Applied Communication Theory</td>
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<tr>
<td>CMST 306 Investigative Reporting</td>
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<tr>
<td>CMST 309 Interviewing</td>
<td></td>
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<tr>
<td>CMST 315 Communication Leadership and Management</td>
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<tr>
<td>CMST 308 Newswriting and Reporting II</td>
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<tr>
<td>CMST 322 Argumentation Theory</td>
<td></td>
</tr>
<tr>
<td>CMST 339 Introduction to Public Relations</td>
<td></td>
</tr>
<tr>
<td>CMST 343 Public Relations Methods II</td>
<td></td>
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<tr>
<td>CMST 356 Propaganda and Public Persuasion</td>
<td></td>
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<tr>
<td>CMST 380 Health Communication</td>
<td></td>
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<tr>
<td>CMST 401 Instructional Communication</td>
<td></td>
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<tr>
<td>CMST 411 Organizational Communication Project</td>
<td></td>
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<tr>
<td>CMST 413 Nonverbal Communication</td>
<td></td>
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<tr>
<td>CMST 414 Language &amp; Thought</td>
<td></td>
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<tr>
<td>CMST 415 Intercultural &amp; International Communication</td>
<td></td>
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<tr>
<td>CMST 440 Public Relations Methods I</td>
<td></td>
</tr>
<tr>
<td>CMST 442 Conducting Public Relations Campaigns</td>
<td></td>
</tr>
<tr>
<td>CMST 440 Public Relations Methods I</td>
<td></td>
</tr>
<tr>
<td>CMST 442 Conducting Public Relations Campaigns</td>
<td></td>
</tr>
<tr>
<td>CMST 455 Seminar in Political Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 481 Communication and Aging</td>
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<tr>
<td>CMST 490 Media Citizenship</td>
<td></td>
</tr>
<tr>
<td>CMST 491 Internship</td>
<td></td>
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<tr>
<td>CMST 492 Independent Study</td>
<td></td>
</tr>
<tr>
<td>CMST 493 Special Topics in Communication Studies</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 38

1 Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.

Major Requirements for Communication Studies with Mass Communication - Journalism Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>CMST 103 History of Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>CMST 105 Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 210 Newswriting and Reporting I</td>
<td>3</td>
</tr>
<tr>
<td>CMST 306 Investigative Reporting</td>
<td>3</td>
</tr>
<tr>
<td>CMST 308 Newswriting and Reporting II</td>
<td>3</td>
</tr>
<tr>
<td>CMST 350 Publication Editing and Design</td>
<td>3</td>
</tr>
<tr>
<td>CMST 360 Feature Writing</td>
<td>3</td>
</tr>
<tr>
<td>CMST 402 Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>CMST 494 Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CMST 495 Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>Mass Media Internship</td>
<td></td>
</tr>
<tr>
<td>Take at least two hours in the following:</td>
<td>2</td>
</tr>
<tr>
<td>CMST 491 Internship</td>
<td></td>
</tr>
<tr>
<td>Major Electives</td>
<td></td>
</tr>
<tr>
<td>Select nine credit hours from 300-level or 400-level Courses (that are not required):</td>
<td>9</td>
</tr>
<tr>
<td>CMST 301 Classical Theories of Social Influence</td>
<td></td>
</tr>
<tr>
<td>CMST 305 Applied Communication Theory</td>
<td></td>
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<tr>
<td>CMST 309 Interviewing</td>
<td></td>
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<tr>
<td>CMST 315 Communication Leadership and Management</td>
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<tr>
<td>CMST 322 Argumentation Theory</td>
<td></td>
</tr>
<tr>
<td>CMST 339 Introduction to Public Relations</td>
<td></td>
</tr>
<tr>
<td>CMST 340 Public Relations Principles</td>
<td></td>
</tr>
<tr>
<td>CMST 343 Public Relations Methods II</td>
<td></td>
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<tr>
<td>CMST 356 Propaganda and Public Persuasion</td>
<td></td>
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<tr>
<td>CMST 380 Health Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 401 Instructional Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 411 Organizational Communication Project</td>
<td></td>
</tr>
<tr>
<td>CMST 413 Nonverbal Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 414 Language &amp; Thought</td>
<td></td>
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<tr>
<td>CMST 415 Intercultural &amp; International Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 440 Public Relations Methods I</td>
<td></td>
</tr>
<tr>
<td>CMST 442 Conducting Public Relations Campaigns</td>
<td></td>
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<tr>
<td>CMST 445 Seminar in Political Communication</td>
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<tr>
<td>CMST 480 Seminar in Health and Medical Communication</td>
<td></td>
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<tr>
<td>CMST 481 Communication and Aging</td>
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<tr>
<td>CMST 490 Media Citizenship</td>
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<tr>
<td>CMST 491 Internship</td>
<td></td>
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<tr>
<td>CMST 492 Independent Study</td>
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<tr>
<td>CMST 493 Special Topics in Communication Studies</td>
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<tr>
<td>Total Hours</td>
<td>41</td>
</tr>
</tbody>
</table>

1 Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.

Major Requirements for Communication Studies with Mass Communication - Public Relations Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>CMST 103 History of Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>CMST 105 Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 210 Newswriting and Reporting I</td>
<td>3</td>
</tr>
<tr>
<td>CMST 339 Introduction to Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>CMST 340 Public Relations Principles</td>
<td>3</td>
</tr>
</tbody>
</table>
CMST 402  Mass Communication Law  3
CMST 440  Public Relations Methods I  3
CMST 442  Conducting Public Relations Campaigns  3
CMST 494  Communication Research Methods  3
CMST 495  Mass Media and Society  3

Mass Media Internship
Take at least two hours in the following:
CMST 491  Internship  2

Writing
Select one of the following:
CMST 308  Newswriting and Reporting II
CMST 360  Feature Writing

Major Electives
Select two courses not previously taken  6
CMST 311  Organizational Communication
CMST 322  Argumentation Theory
CMST 343  Public Relations Methods II
CMST 356  Propaganda and Public Persuasion
CMST 491  Internship

Total Hours  41

1  Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.

Additional Requirements

Minor
Completion of a minor is not required for this degree.

Proposed Program of Study for a Major in Communication Management

<table>
<thead>
<tr>
<th></th>
<th>Freshman</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
<td>Hours</td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3</td>
<td>CMST 103</td>
<td>3</td>
<td>CMST 103</td>
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<tr>
<td>CMST 105</td>
<td>3</td>
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<td>6</td>
<td></td>
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<tr>
<td>Sophomore</td>
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<td></td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
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<td>Hours</td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
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</tr>
<tr>
<td>Communication Management</td>
<td>6</td>
<td>Communication Management</td>
<td>6</td>
<td>CMST 402</td>
<td>3</td>
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<tr>
<td>Electives I^3</td>
<td>6</td>
<td>Elective II^4</td>
<td>6</td>
<td>CMST 495</td>
<td>3</td>
<td></td>
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<tr>
<td>Junior</td>
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<tr>
<td></td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
<td>Hours</td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
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<td>CMST 494</td>
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<td>Communication Management</td>
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<td>CMST 493</td>
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<td>Electives IV^5</td>
<td>6</td>
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<td>Electives III^5</td>
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<td>6</td>
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<tr>
<td>Senior</td>
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<tr>
<td></td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
<td>Hours</td>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
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<tr>
<td>Other Communication</td>
<td>3</td>
<td>Other Communication</td>
<td>3</td>
<td>CMST 103</td>
<td>3</td>
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<tr>
<td>Management Elective</td>
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</tr>
</tbody>
</table>

Total credit hours: 42

1  Public Speaking is highly recommended as a core choice for Communication Studies majors and minors.
2  Ideally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities, 9 hours of social science, and 3 hours of science and mathematics.
3  Select two courses from CMST 310, CMST 311, CMST 315, CMST 339 or CMST 356.
4  Select two courses from CMST 300, CMST 301, CMST 309 or CMST 310.
5  Select two courses from CMST 401, CMST 413, CMST 414, CMST 455 or CMST 492.
6  Select two courses from CMST 400, CMST 411, CMST 415 or CMST 492.

Proposed Program of Study for a Major in Mass Communication with a Broadcasting Specialization

Freshman
First Term | Hours | Second Term | Hours | Hours
CMST 101 | 3        | CMST 105 | 3        |
CMST 103 | 3        |

Sophomore
First Term | Hours | Second Term | Hours | Hours
CMST 210 | 3        | CMST 283 | 3        |
CMST 370 | 3        | CMST 371 | 3        |

Junior
First Term | Hours | Second Term | Hours | Hours
CMST 383 | 3        | CMST 402 | 3        |
CMST 494 | 3        | CMST 495 | 3        |

Senior
First Term | Hours | Second Term | Hours | Hours
CMST 491 | 1-3 CMST 493 | 3        |

Total credit hours: 37-39

1  Ideally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities and fine arts, 9 hours of social science, and 4 hours of science and mathematics.
2  Public Speaking is highly recommended as a core choice for Communication Studies majors and minors; however, other options exist.

Proposed Program of Study for a Major in Mass Communication with a Journalism Specialization

Freshman
First Term | Hours | Second Term | Hours | Hours
EH 101 | 3        | EH 102 | 3        |
CMST 101 | 3        | CMST 103 | 3        |

1  Public Speaking is highly recommended as a core choice for Communication Studies majors and minors.
2  Ideally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities, 9 hours of social science, and 3 hours of science and mathematics.
The University of Alabama at Birmingham

Proposed Program of Study for a Major in Mass Communication with a Public Relations Specialization

Freshman
First Term
EH 101 1
CMST 101
CMST 103

Sophomore
First Term
CMST 210
CMST 495

Junior
First Term
CMST 339
CMST 356

Senior
First Term
CMST 440
CMST 311

Second Term
Hours
CMST 442
CMST 491

Hours
3
1-3

Total credit hours: 49-51

1 EH 101 and EH 102 are listed because they are prerequisites for CMST 210, which is required for these specializations (Public Relations and Journalism). Additionally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities and fine arts, 9 hours of social science, and 4 hours of science and mathematics.

2 Ideally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities and fine arts, 9 hours of social science, and 4 hours of science and mathematics.

3 Public Speaking is highly recommended as a core choice for Communication Studies majors and minors; however, other options exist.

Minor Requirements for Communication Management

A minor for non-majors consists of the following:

Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 105 Introduction to Human Communication</td>
</tr>
<tr>
<td>CMST 311 Organizational Communication</td>
</tr>
<tr>
<td>CMST 413 Nonverbal Communication</td>
</tr>
<tr>
<td>Three additional courses, approved by departmental advisor or chair.</td>
</tr>
</tbody>
</table>

Total Hours
18

Minor Requirements for Mass Communication

Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 103 History of Mass Media</td>
</tr>
<tr>
<td>CMST 210 Newswriting and Reporting I</td>
</tr>
</tbody>
</table>

Communication Studies Electives

Under advisement, select five 300-level or 400-level Mass Communication courses.

Total Hours
15

Total
21

Department of Computer and Information Sciences

Chair: Anthony Skjellum

The Department of Computer and Information Sciences (CIS) offers a B.S. major and a minor in CIS. The B.S. degree in CIS is accredited by the Computing Accreditation Commission of ABET, www.abet.org. The CIS major is designed to give students a broad background in the structure and theory of information, programming methodologies, and the hardware and software of computer systems. There is also a concentration that offers an opportunity for specialization in computer networking. Minors are available for students who are not CIS majors but who expect to use the computer in the application area of their major field. The Department is especially interested in students getting job-related experience and training through internships and co-operative education opportunities with local and regional high technology companies. Also, the undergraduate majors are sufficiently flexible such
that majors or minors in complementary areas such as business can be accomplished within the normal degree time frame. For more information, see the CIS department web site at cis.uab.edu.

Additional Requirements for Admission to CIS Undergraduate Program

Undergraduate Admission Requirements

To be admitted to the CIS program incoming students must satisfy the following requirements in addition to general requirements for admission to UAB listed in the Undergraduate Catalog:

• placed at or above Pre-Calculus Algebra MA 105 in the UAB Math Placement Exam
• eligible for enrolling in English Composition I EH 101

Students who do not satisfy the above requirements but are still interested in the CIS program should complete the required course(s) to satisfy the requirement(s) as a Liberal Arts major in the College of Arts and Sciences and then submit an application to be a CIS major after successfully completing the requirement(s).

Requirements for students transferring to the CIS major from other programs within UAB

Students admitted to an undergraduate program at UAB may transfer to CIS provided they have completed the Math and English prerequisites for registering as noted above, and have earned a UAB GPA of 2.0 or better.

Requirements for students transferring to the CIS major from other institutions

Transfer students from other institutions may transfer to the CIS program provided they have completed the math prerequisites for registering (either for CS 201 or CS 250, or higher), completed English Composition 101, and have earned a GPA of 2.0 or better. If the above requirements are not met, transfer students must transfer as a Liberal Arts major in the College of Arts and Sciences, complete the above requirements, meet the GPA requirement, and then apply to become a CIS major.

Major in Computer and Information Sciences (CIS)

The major in computer and information sciences requires 48 semester hours of CIS courses at the 200 level or above with a grade point average of at least 2.2 and a grade of C or better in each of the required computer and information sciences courses. If a student receives a grade D or F in any CIS course, then the student will only be allowed one chance to retake that course and pass it (grade C or better). CIS courses taken at another institution for which a grade of D was received may not be counted toward the CIS major or the CIS minor.

All CIS majors must maintain a GPA of 2.2 or better in all CIS courses taken. If the CIS GPA falls below 2.2, then the student will be put on probation and student must raise his or her CIS GPA to 2.2 or above within a year after being placed on probation. At the end of the probation term, if the CIS GPA is not at or above 2.2, then the student will be dismissed from the major, and be reclassified as an undeclared major in the College of Arts and Sciences. Note that this requirement is in addition to the minimum UAB GPA of 2.0 or better required to be in good standing. A student who is dismissed from the CIS major as described here may reapply to be CIS major provided the student has raised his or her CIS GPA to 2.2 or higher and also has a UAB GPA to 2.0 or better.

At least 12 semester hours of CIS courses at the 300 level or above must be taken at UAB. Any CIS course at the 300 level or above can be taken to satisfy the 12 semester hour CIS elective credit. CIS courses at the 400-level and above are normally restricted to CIS Majors. Non-majors may register for such courses only with the specific permission of the specific course Instructor.

A maximum of 3 semester hours credit may be obtained in Directed Readings. Although not required, computer and information sciences majors have the option to structure their 12 semester hours of CIS program electives as a specialization in Computer Networking. Course substitutions may be made within this specialization with CIS advisor approval.

Minor

A computer and information sciences minor requires the completion of 21 semester hours of CIS courses at the 200 level or above, including 14 semester hours at the 300 level or above. A minimum of 6 semester hours in CIS at the 200 level or above must be taken at UAB. A student must obtain a grade of C or better in all courses.

Graduate Programs

The Department of Computer and Information Sciences offers graduate study leading to the Master of Science and Doctor of Philosophy degrees. Further information may be obtained from the department or the UAB Graduate School Catalog. Advanced undergraduates with a CIS GPA of 3.0 or better may take graduate courses with the permission of the instructor.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Major Requirements for Computer and Information Sciences (CS)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Requirements 1, 2</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6-7</td>
</tr>
<tr>
<td>MA 227 Calculus III</td>
<td></td>
</tr>
<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td></td>
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<tr>
<td>MA 260 Introduction to Linear Algebra</td>
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<tr>
<td>MA 360 Scientific Programming 3</td>
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<tr>
<td>MA 434 Algebra I: Linear</td>
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<tr>
<td>MA 440 Advanced Calculus I</td>
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<tr>
<td>MA 444 Vector Analysis</td>
<td></td>
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<tr>
<td>MA 445 Complex Calculus</td>
<td></td>
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<tr>
<td>MA 463 Operations Research I</td>
<td></td>
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<tr>
<td>MA 470 Differential Geometry I</td>
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<tr>
<td>MA 472 Geometry I</td>
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<tr>
<td>MA 474 Introduction to Topology I</td>
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<tr>
<td>MA 485 Probability</td>
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</tbody>
</table>

Natural Sciences Requirement

12 semester hours are required in two different laboratory science, including a two course sequence, choose from the following:

| BY 123 Introductory Biology I & BY 124 Introductory Biology II | 12 |
The University of Alabama at Birmingham

CH 115  General Chemistry I
& CH 116  and General Chemistry I Laboratory
CH 117  General Chemistry II
& CH 118  and General Chemistry II Laboratory
PH 221  General Physics I
& PH 222  and General Physics II

Required Computer and Information Sciences Courses
CS 201  Introduction to Object Oriented Programming  4
CS 250  Discrete Structures  3
CS 302  Object-Oriented Design  4
CS 303  Algorithms/Data Structures  4
CS 330  Computer Organization and Assembly Language Programming  3
CS 350  Automata and Formal Language Theory  3
CS 401  Programming Languages  3
CS 420  Software Engineering  3
CS 433  Operating Systems  3
CS 455  Probability and Statistics in Computer Science  3
or CS 355  Probability and Statistics in Computer Science
CS 499  Senior Capstone  3

Computer and Information Sciences Electives
Complete twelve hours in 300-level or above Computer and Information Sciences courses (a maximum of two of the following courses may be used):

EE 337  Introduction to Microprocessors
EE 452  VHDL Digital Systems Design
MA 360  Scientific Programming
PHL 372  Minds and Machines

Total Hours  74-75

1  A grade of "C" or better must be earned in each course.
2  Completion of MA 125 or MA 126 automatically satisfies the Area III: Mathematics Requirement.
3  Can be counted towards either Math requirement or CS elective not both.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement. These must include CMST 101 Public Speaking and PHL 115 Contemporary Moral Issues.

Major Requirements for Computer and Information Sciences with Computer Networking Specialization
This specialization is shaped by the campus medical community and local industry relationships.

Mathematics Requirements  1, 2
MA 125  Calculus I  4
MA 126  Calculus II  4
Select two of the following:  6-7
MA 180  Introduction to Statistics
MA 227  Calculus III
MA 252  Introduction to Differential Equations
MA 260  Introduction to Linear Algebra
MA 434  Algebra I: Linear
MA 440  Advanced Calculus I
MA 444  Vector Analysis
MA 445  Complex Analysis
MA 463  Operations Research I
MA 470  Differential Geometry I
MA 472  Geometry I
MA 474  Introduction to Topology I
MA 485  Probability

Required Computer and Information Sciences Courses
CS 201  Introduction to Object Oriented Programming  4
CS 250  Discrete Structures  3
CS 302  Object-Oriented Design  4
CS 303  Algorithms/Data Structures  4
CS 330  Computer Organization and Assembly Language Programming  3
CS 350  Automata and Formal Language Theory  3
CS 401  Programming Languages  3
CS 420  Software Engineering  3
CS 433  Operating Systems  3
CS 455  Probability and Statistics in Computer Science  3
or CS 355  Probability and Statistics in Computer Science
CS 499  Senior Capstone  3

Computer Networking Electives (select four courses)  12
CS 334  Internetworking with TCP/IP
CS 336  Network Security
CS 410  Database Management Systems
CS 431  Distributed Systems
CS 435  Network Programming
CS 436  Computer Security
CS 437  Cybercrime and Forensics
CS 443  Security & Privacy in Cloud Computing

Total Hours  62-63

1  Grade of C or better must be earned in each course.
2  Completion of MA 125 or MA 126 automatically satisfies the Area III: Mathematics Requirement.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement. These must include CMST 101 Public Speaking and PHL 115 Contemporary Moral Issues.

Pre-Health
Students wishing to enter the Schools of Medicine, Dentistry, or Optometry after completing their undergraduate degree in computer science should complete the following sequence of courses in chemistry, biology, and physics:

Chemistry
CH 115  General Chemistry I  3
CH 116  General Chemistry I Laboratory  1
CH 117  General Chemistry II  3
CH 118  General Chemistry II Laboratory  1
CH 235  Organic Chemistry I  3
### College of Arts and Sciences

CH 236 Organic Chemistry I Laboratory 1
CH 237 Organic Chemistry II 3
CH 238 Organic Chemistry II Laboratory 1

### Biology
BY 123 Introductory Biology I 8
& BY 124 and Introductory Biology II

### Physics
Select one of the following: 8
- PH 201 College Physics I
- PH 202 and College Physics II
- PH 221 General Physics I
- PH 222 and General Physics II

These courses should be completed prior to taking the MCAT examination at the end of the junior year. The chemistry sequence will satisfy requirements for a minor in chemistry with the exception of one additional course. See Chemistry Minor for requirements.

### Proposed Program of Study for a Major in Computer and Information Sciences

#### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CAS 112</td>
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<td>CS 201</td>
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<tr>
<td>MA 125</td>
<td>4</td>
<td>MA 126</td>
<td>4</td>
</tr>
<tr>
<td>Laboratory Science I</td>
<td>4</td>
<td>Laboratory Science II</td>
<td>4</td>
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<tr>
<td>EH 101</td>
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<td>EH 102</td>
<td>3</td>
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<td>General Elective</td>
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#### Sophomore

<table>
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<td>CS 302</td>
<td>4</td>
<td>HY 102</td>
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</tr>
<tr>
<td>EH 216</td>
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<tr>
<td>HY 101</td>
<td>3</td>
<td>Laboratory Science III</td>
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#### Junior

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<th>Hours</th>
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<tr>
<td>CS 330</td>
<td>3</td>
<td>CS 401</td>
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<td>CS 350</td>
<td>3</td>
<td>CS 433</td>
<td>3</td>
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<tr>
<td>PHL 115</td>
<td>3</td>
<td>ARH 101</td>
<td>3</td>
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<tr>
<td>SOC 100 or 245</td>
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<td>CMST 101</td>
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<td>PSC 101 or 103</td>
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<td>General Elective</td>
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#### Senior

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<tr>
<td>CS 420</td>
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<td>CS 499</td>
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<tr>
<td>CS 455</td>
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<td>CS Electives (300-400 level)</td>
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<td>General Elective</td>
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</table>

Total credit hours: 120

### Proposed Program of Study for a Major in Computer and Information Sciences with a Networking Specialization

#### Freshman

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<th>First Term</th>
<th>Hours</th>
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<th>Hours</th>
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<td>MA 126</td>
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<td>EH 101</td>
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<td>EH 102</td>
<td>3</td>
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<tr>
<td>Laboratory Science I</td>
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#### Sophomore

<table>
<thead>
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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 250</td>
<td>3</td>
<td>CS 303</td>
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<td>CS 302</td>
<td>4</td>
<td>HY 102</td>
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<tr>
<td>EH 216</td>
<td>3</td>
<td>Math Elective</td>
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<tr>
<td>HY 101</td>
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<td>Laboratory Science III</td>
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<td>Math Elective</td>
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<td><strong>Total</strong></td>
<td><strong>16</strong></td>
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<td><strong>14</strong></td>
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#### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 330</td>
<td>3</td>
<td>CS 401</td>
<td>3</td>
</tr>
<tr>
<td>CS 350</td>
<td>3</td>
<td>CS 433</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115</td>
<td>3</td>
<td>ARH 101</td>
<td>3</td>
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<tr>
<td>SOC 100 or 245</td>
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<td>CMST 101</td>
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<tr>
<td>PSC 101 or 103</td>
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<td>General Elective</td>
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<td>CS 435</td>
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<td>CS Electives</td>
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<td><strong>Total</strong></td>
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<td><strong>16</strong></td>
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</tbody>
</table>

1 Only one of the following courses can substitute for a networking specialization elective: CS 410, CS 481, CS 482

#### Minor in Computer and Information Sciences

A computer and information sciences minor requires 21 hours from 200-level or higher Computer and Information Sciences (CS) courses, including 14 hours above the 300-level.

- A minimum of six hours must be taken at UAB.
- A grade of C or better is required for all courses for the minor.

### Minor Requirements for Computer and Information Sciences

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 201 Introduction to Object Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS 250 Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 302 Object-Oriented Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Total credit hours: 120
Honors Program: Computer and Information Sciences

Purpose
The Computer and Information Sciences Honors Program offers outstanding, highly motivated students the opportunity to develop research skills in preparation for graduate work or a professional career.

Eligibility
In order to be accepted into the Computer and Information Sciences Honors program, a student must:

- have earned a 3.5 GPA in computer and information sciences (CS) courses;
- have earned a 3.0 GPA overall;
- have completed 18 semester hours in CS courses;
- have enrolled in Undergraduate Honors Research (CS 398) for at least 1 semester hour; and
- have arranged with a faculty sponsor in Computer and Information Sciences to do a research project.

Requirements
Students in the Computer and Information Sciences Honors Program will be required to have the following:

- a minimum of 3 semester hours in Undergraduate Honors Research (CS 398) with each semester hour involving a minimum of three hours of laboratory work per week during the semester of enrollment;
- a formal research proposal submitted by the end of the first term of Honors Research, including an introduction, proposed methods, and relevant literature citation;
- a formal written report in the form of a scientific paper; and
- an oral or poster presentation at a Computer and Information Sciences departmental seminar.

In some instances, it will be recommended or required that Computer and Information Sciences Honors students give a formal presentation of their work at a scientific meeting.

Benefits
In addition to the educational and career benefits of participating in the Computer and Information Sciences Honors program, students who complete the program will graduate “With Honors in Computer and Information Sciences.”

Contact
For more information and/or admission to the Computer and Information Sciences Honors program, contact:

Dr. Anthony Skjellum
1300 University Blvd. Room 115A, Campbell Hall
Birmingham, AL 35294-1170

Telephone (205) 934-2213
E-mail: tony@cis.uab.edu (bryant@cis.uab.edu)
Web site: http://www.cis.uab.edu/undergrad

Department of English

Chair: Peter J. Bellis
Director, Graduate Studies: Gale Temple
Director, Undergraduate Studies: Alison Chapman
Director, Creative Writing Program: James Braziel
Director, Freshman Composition and Developmental Program: Christopher Minnix
Director, Professional Writing: Bruce McComiskey
Director, Linguistics: David Basilico
Director, Departmental Honors: Daniel Siegel
Director, Internships: Cynthia Ryan

The Department of English offers programs of study leading to the degree of Bachelor of Arts with a major or minor in English. The department offers four tracks to the English major: an English major with a concentration in literature, an English major with a concentration in professional writing, an English major with a concentration in creative writing, and an English major with a concentration in linguistics. The department offers four different minors: a minor in English literature, a minor in writing, a minor in creative writing, and a minor in linguistics. The Department of English also offers courses leading to the Master of Arts degree in English. Further information about the department and its programs may be obtained from the department website (http://www.uab.edu/cas/english) or the department office; information on the graduate program may also be found in the UAB Graduate School Catalog.

English Literature
The study of English literature challenges students to develop their skills in reading, critical analysis, and written expression and also to develop a deeper appreciation of the aesthetic and historical contexts in which authors wrote. Students may pursue a concentration in literature within the English major or a minor in literature.

Creative Writing
Students may pursue a concentration in creative writing within the English major or a minor in creative writing, taking workshops in poetry, fiction, creative nonfiction, and writing for young people; one forms class; and special topics in creative writing.

Linguistics: Interdisciplinary Program

Director: David Basilico (English)

Students interested in a concentration in linguistics within the English major or a minor in linguistics are invited to participate in an interdisciplinary program. The linguistics concentration and minor are designed for students interested in careers represented by the participating disciplines that might involve detailed knowledge of natural or artificial languages. Note that the program is not necessarily one for “people who speak a lot of languages,” but rather is intended for students interested in the structure and function of language. Students should consult the program director for advising.
Professional Writing:
Students interested in non-fiction writing for corporate and public life may pursue a concentration in professional writing within the English major or a minor in writing.

Major in English with a Concentration in Literature (p. 134)
Major in English with a Concentration in Creative Writing (p. 136)
Major in English with a Concentration in Linguistics (p. 137)
Major in English with a Concentration in Professional Writing (p. 139)

Major Requirements for English with a Concentration in Literature

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>EH 301 Reading, Writing, and Research for English Majors</td>
<td>3</td>
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</table>

World, British & Irish, or American Literature Survey 1
Select one of the following two course sequences: 6
- EH 217 World Literature I: Before 1660
- EH 218 World Literature II: 1660-Present
- EH 221 British and Irish Literature I: Before 1800
- EH 222 British and Irish Literature II: 1800-Present
- EH 223 American Literature I: Before 1865
- EH 224 American Literature II: 1865-Present

African, African American, or African Diasporic Literature
Select one of the following: 3
- EH 324 African-American Special Topics
- EH 365 African American Literature, 1746-1954
- EH 366 African American Literature, 1954-Present
- EH 422 African Literature
- EH 423 African Women’s Literature
- EH 424 African-American Special Topics
- EH 446 African American Autobiography
- EH 447 African American Dramatic Tradition
- EH 448 African American Poetry Tradition
- EH 466 The Slave Narrative and Its Literary Expressions
- EH 467 Black Women Writers
- EH 468 The Harlem Renaissance

Literature pre-1700
Select two of the following: 6
- EH 325 Pre-1700 Lit Special Topics
- EH 329 Literature of the Vikings
- EH 376 Shakespeare
- EH 425 Pre-1700 Literature Special Topics
- EH 469 Medieval Culture: Literature and Society
- EH 470 Arthurian Legend
- EH 471 Beowulf in Context
- EH 472 Introduction to Old English
- EH 473 Chaucer: Pilgrimage to Canterbury

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EH 474</td>
<td>English Renaissance Drama (Excluding Shakespeare)</td>
</tr>
<tr>
<td>EH 475</td>
<td>English Renaissance Poetry and Prose</td>
</tr>
<tr>
<td>EH 476</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>EH 478</td>
<td>Milton</td>
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Literature 1700-1900
Select one of the following: 3
- EH 326 1700-1900 Literature: Special Topics
- EH 426 1700-1900 Literature: Special Topics
- EH 460 American Women Writers Before 1900
- EH 461 American Literature, 1620 - 1820
- EH 462 American Literature, 1820 - 1870
- EH 463 American Literature, 1870 - 1914
- EH 480 The Restoration
- EH 481 The Eighteenth Century: Literature and Culture
- EH 482 The Eighteenth Century: Theory and Interpretation
- EH 483 British Romanticism
- EH 485 British Victorian Poetry
- EH 486 Eighteenth-Century British Novel
- EH 487 Nineteenth-Century British Novel

Literature post-1900
Select one of the following: 3
- EH 327 Post 1900 Literature: Special Topics
- EH 339 Twentieth Century Theater
- EH 366 African American Literature, 1954-Present
- EH 414 Modern British and European Drama
- EH 416 Modern American Poetry
- EH 427 Post 1900 Literature: Special Topics
- EH 431 Special Topics in Film
- EH 442 Literary Theory and Criticism, the Twentieth Century to the Present
- EH 444 Women’s Literature and Theory
- EH 464 American Literature, 1914 - 1945
- EH 465 American Literature, 1945-Present
- EH 468 The Harlem Renaissance
- EH 488 British Novel: The Modern Age
- EH 489 James Joyce

Study of English as a Language 2
Select one of the following: 3
- EH/LING 350 Introduction to Linguistics
- EH/LING 351 Structure of English
- EH/LING 352 The Structure of English Words
- EH/LING 355 Introduction to Sociolinguistics
- EH/LING 356 Semantics
- EH/LING 360 Phonology
- EH/LING 393 Special Topics in Linguistics
- EH/LING 450 Advanced Grammar
- EH/LING 451 Generative Grammar
- EH/LING 452 Grammar and Usage for English Teachers
<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>EH/LING 454</td>
<td>The Biology of Language</td>
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<tr>
<td>EH/LING 453</td>
<td>History of the English Language</td>
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<tr>
<td>EH/LING 493</td>
<td>Special Topics in Linguistics</td>
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**English Electives**

Select four of the following: 12

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<tr>
<td>EH 203</td>
<td>Writing in Birmingham</td>
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<tr>
<td>EH 205</td>
<td>Introduction to Creative Writing</td>
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<tr>
<td>EH 210</td>
<td>Interpreting Film</td>
</tr>
<tr>
<td>EH 214</td>
<td>Introduction to Literature: Special Topics</td>
</tr>
<tr>
<td>EH 302</td>
<td>Intermediate Writing</td>
</tr>
<tr>
<td>EH 303</td>
<td>Advanced Composition</td>
</tr>
<tr>
<td>EH 304</td>
<td>Editing in Professional Contexts</td>
</tr>
<tr>
<td>EH 305</td>
<td>Beginning Poetry Writing Workshop</td>
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<tr>
<td>EH 306</td>
<td>Beginning Poetry Writing Workshop</td>
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<tr>
<td>EH 307</td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
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<td>Beginning Creative Nonfiction Writing Workshop</td>
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<td>EH 309</td>
<td>Beginning Fiction Writing Workshop</td>
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<tr>
<td>EH 310</td>
<td>Beginning Fiction Writing Workshop</td>
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<td>EH 311</td>
<td>English Internship</td>
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<td>EH 318</td>
<td>Science Fiction</td>
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<td>EH 324</td>
<td>African-American Special Topics</td>
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<td>EH 325</td>
<td>Pre-1700 Lit Special Topics</td>
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<td>EH 326</td>
<td>1700-1900 Literature: Special Topics</td>
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<td>EH 327</td>
<td>Post 1900 Literature: Special Topics</td>
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<td>EH 328</td>
<td>English Elective: Special Topics</td>
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<td>EH 329</td>
<td>Literature of the Vikings</td>
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<td>EH 330</td>
<td>Professional Writing: Special Topics</td>
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<td>EH 332</td>
<td>Public Discourse: Special Topics</td>
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<td>EH 339</td>
<td>Twentieth Century Theater</td>
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<td>EH 350</td>
<td>Introduction to Linguistics</td>
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<tr>
<td>EH 351</td>
<td>Structure of English</td>
</tr>
<tr>
<td>EH 352</td>
<td>The Structure of English Words</td>
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<td>EH 355</td>
<td>Introduction to Sociolinguistics</td>
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<td>EH 356</td>
<td>Semantics</td>
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<td>EH 358</td>
<td>Phonology</td>
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<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
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<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
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<td>EH 367</td>
<td>Southern Literature</td>
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<td>EH 369</td>
<td>The American Dream</td>
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<td>EH 376</td>
<td>Shakespeare</td>
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<td>EH 389</td>
<td>Bible as Literature</td>
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<td>EH 393</td>
<td>Special Topics in Linguistics</td>
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<tr>
<td>EH 401</td>
<td>Tutoring Writing</td>
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<tr>
<td>EH 402</td>
<td>Writing in Popular Periodicals</td>
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<tr>
<td>EH 403</td>
<td>Business Writing</td>
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<tr>
<td>EH 404</td>
<td>Technical Writing</td>
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<tr>
<td>EH 405</td>
<td>Poetry Writing Workshop</td>
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<td>EH 406</td>
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<td>EH 407</td>
<td>Creative Nonfiction Writing Workshop</td>
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<td>EH 408</td>
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<td>EH 409</td>
<td>Fiction Writing Workshop</td>
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<td>Capstone Internship</td>
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<td>EH 412</td>
<td>Forms of Poetry</td>
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<td>EH 413</td>
<td>Forms of Creative Nonfiction</td>
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<tr>
<td>EH 414</td>
<td>Modern British and European Drama</td>
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<td>EH 415</td>
<td>Forms of Fiction</td>
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<td>EH 416</td>
<td>Modern American Poetry</td>
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<td>Young Adult Literature</td>
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<td>World Literature</td>
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<tr>
<td>EH 422</td>
<td>African Literature</td>
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<tr>
<td>EH 423</td>
<td>African Women’s Literature</td>
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<td>EH 425</td>
<td>Pre-1700 Literature Special Topics</td>
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<td>EH 429</td>
<td>Creative Writing: Special Topics</td>
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<td>EH 430</td>
<td>Professional Writing: Special Topics</td>
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<td>EH 431</td>
<td>Special Topics in Film</td>
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<td>Public Discourse: Special Topics</td>
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<td>EH 433</td>
<td>Academic Writing</td>
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<td>Teaching Creative Writing</td>
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<td>Workshop in Writing for Young People</td>
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<td>Archetype and Myth</td>
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<td>Women's Literature and Theory</td>
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<td>EH 446</td>
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<td>EH 452</td>
<td>Grammar and Usage for English Teachers</td>
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<td>EH 459</td>
<td>Discourse Analysis</td>
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<td>The Harlem Renaissance</td>
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<td>EH 469</td>
<td>Medieval Culture: Literature and Society</td>
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<td>EH 470</td>
<td>Arthurian Legend</td>
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<td>Beowulf in Context</td>
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<td>Introduction to Old English</td>
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<td>EH 473</td>
<td>Chaucer: Pilgrimage to Canterbury</td>
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<td>EH 474</td>
<td>English Renaissance Drama (Excluding Shakespeare)</td>
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<td>EH 475</td>
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Major Requirements for English with a Concentration in Creative Writing

Requirements

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<th>Required Courses</th>
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Select one of the following two course sequences:

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African, African American, or African Diasporic Literature

Select one of the following:

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Study of English as a Language

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<td>African-American Special Topics</td>
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<td>African American Autobiography</td>
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<td>African American Poetry Tradition</td>
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<tr>
<td>The Slave Narrative and Its Literary Expressions</td>
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<tr>
<td>Black Women Writers</td>
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<td>The Harlem Renaissance</td>
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Literature Pre-1700

Select one of the following:

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<td>American Literature, 1620 - 1820</td>
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<td>American Literature, 1820 - 1870</td>
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<td>American Literature, 1870 - 1914</td>
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<td>The Restoration</td>
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<td>The Eighteenth Century: Literature and Culture</td>
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<tr>
<td>The Eighteenth Century: Theory and Interpretation</td>
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<tr>
<td>British Romanticism</td>
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<tr>
<td>British Victorian Poetry</td>
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<td>Eighteenth-Century British Novel</td>
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<td>Nineteenth-Century British Novel</td>
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<td>British Novel: The Modern Age</td>
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Literature 1700-1900

Select one of the following:

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<td>American Literature, 1914 - 1945</td>
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<td>American Literature, 1945-Present</td>
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<td>The Harlem Renaissance</td>
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<tr>
<td>British Novel: The Modern Age</td>
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<tr>
<td>James Joyce</td>
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Study of English as a Language

<table>
<thead>
<tr>
<th>Language Study</th>
<th>Hours</th>
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<tbody>
<tr>
<td>African Women’s Literature</td>
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<tr>
<td>African-American Special Topics</td>
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<td>African American Autobiography</td>
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<td>African American Dramatic Tradition</td>
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<td>African American Poetry Tradition</td>
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<tr>
<td>The Slave Narrative and Its Literary Expressions</td>
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<tr>
<td>The Harlem Renaissance</td>
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<tr>
<td>British Novel: The Modern Age</td>
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<tr>
<td>James Joyce</td>
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Major Requirements for English with Concentration in Linguistics

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<td>Required Courses</td>
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<td>Introduction to Linguistics</td>
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<td>African American Literature, 1954-Present</td>
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<td>EH 422</td>
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<td>EH 448</td>
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<td>African American Poetry Tradition</td>
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<td>The Slave Narrative and Its Literary Expressions</td>
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<tr>
<td>Black Women Writers</td>
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Literature Pre-1700
### Literature 1700-1900

Select one of the following: 3

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<td>EH 460</td>
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<td>EH 461</td>
<td>American Literature, 1620 - 1820</td>
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<td>EH 463</td>
<td>American Literature, 1870 - 1914</td>
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<td>The Eighteenth Century: Literature and Culture</td>
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<td>The Eighteenth Century: Theory and Interpretation</td>
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### Literature Post-1900

Select one of the following: 3

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<td>EH 339</td>
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<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
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<td>EH 414</td>
<td>Modern British and European Drama</td>
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<td>Modern American Poetry</td>
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<td>EH 427</td>
<td>Post 1900 Literature: Special Topics</td>
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<td>EH 442</td>
<td>Literary Theory and Criticism, the Twentieth Century to the Present</td>
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### Study of English as a Language

Select four of the following: 12

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<td>The Structure of English Words</td>
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<td>Introduction to Sociolinguistics</td>
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<td>EH/LING</td>
<td>Semantics</td>
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<td>Special Topics in Linguistics</td>
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<td>Advanced Grammar</td>
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<td>Post 1900 Literature: Special Topics</td>
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<td>Professial Writing: Special Topics</td>
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<td>Public Discourse: Special Topics</td>
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<td>Introduction to Linguistics</td>
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<td>Structure of English</td>
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<td>Introduction to Sociolinguistics</td>
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<td>EH/LING</td>
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The University of Alabama at Birmingham

EH 411  Capstone Internship
EH 412  Forms of Poetry
EH 413  Forms of Creative Nonfiction
EH 414  Modern British and European Drama
EH 415  Forms of Fiction
EH 416  Modern American Poetry
EH 419  Young Adult Literature
EH 420  World Literature
EH 422  African Literature
EH 423  African Women’s Literature
EH 424  African-American Special Topics
EH 425  Pre-1700 Literature Special Topics
EH 426  1700-1900 Literature: Special Topics
EH 427  Post 1900 Literature: Special Topics
EH 428  English Elective: Special Topics
EH 429  Creative Writing: Special Topics
EH 430  Professional Writing: Special Topics
EH 431  Special Topics in Film
EH 432  Public Discourse: Special Topics
EH 433  Academic Writing
EH 435  Teaching Creative Writing
EH 436  Workshop in Writing for Young People
EH 437  Workshop in Writing for Young People
EH 441  Literary Theory and Criticism, the Ancients to the Nineteenth Century
EH 442  Literary Theory and Criticism, the Twentieth Century to the Present
EH 444  Women’s Literature and Theory
EH 446  African American Autobiography
EH 447  African American Dramatic Tradition
EH 448  African American Poetry Tradition
EH 450  Advanced Grammar
EH 451  Generative Grammar
EH 453  History of the English Language
EH 454  The Biology of Language
EH 456  Visual Rhetoric
EH 457  Writing and Medicine
EH 459  Discourse Analysis
EH 460  American Women Writers Before 1900
EH 461  American Literature, 1620 - 1820
EH 463  American Literature, 1870 - 1914
EH 464  American Literature, 1914 - 1945
EH 465  American Literature, 1945-Present
EH 466  The Slave Narrative and Its Literary Expressions
EH 467  Black Women Writers
EH 468  The Harlem Renaissance
EH 469  Medieval Culture: Literature and Society
EH 471  Beowulf in Context
EH 472  Introduction to Old English
EH 473  Chaucer: Pilgrimage to Canterbury
EH 474  English Renaissance Drama (Excluding Shakespeare)
EH 475  English Renaissance Poetry and Prose
EH 476  Shakespeare
EH 478  Milton
EH 480  The Restoration
EH 482  The Eighteenth Century: Theory and Interpretation
EH 483  British Romanticism
EH 485  British Victorian Poetry
EH 486  Eighteenth-Century British Novel
EH 487  Nineteenth-Century British Novel
EH 488  British Novel: The Modern Age
EH 489  James Joyce
EH 493  Special Topics in Linguistics
EH 495  Honors Capstone Thesis
EH 496  Capstone Seminar
EH 497  Individual Studies

Capstone 4
Select one of the following:
EH 411  Capstone Internship
EH 495  Honors Capstone Thesis
EH 496  Capstone Seminar

Total Hours 42

1 Note that students who have already completed EH 250 and EH 251 under the 2008-2009 catalog will be credited with having met this requirement.
2 Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.
3 Note that students may petition the Program Director to have one relevant, non-Linguistics course in English or another discipline count toward this requirement.
4 EH 411 and EH 495 must be approved. This requirement should be fulfilled in the student's final year.

 Students majoring in English must achieve a grade of C or higher in all courses applied toward the major requirement.
 Fifteen semester hours of English courses at the 300 and 400 levels must be taken at UAB.
 Eighteen semester hours of English courses must be at the 400 level.
 A single course may not count toward more than one departmental requirement.

Major Requirements for English with Concentration in Professional Writing

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>EH 301  Reading, Writing, and Research for English Majors</td>
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<tr>
<td><strong>World, British &amp; Irish, or American Literature Survey</strong> 1</td>
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<tr>
<td>Select one of the following two course sequences:</td>
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<tr>
<td>EH 217  World Literature I: Before 1660 &amp; EH 218 and World Literature II: 1660-Present</td>
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<tr>
<td>EH 221  British and Irish Literature I: Before 1800 &amp; EH 222 and British and Irish Literature II: 1800-Present</td>
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</tr>
<tr>
<td>EH 223  American Literature I: Before 1865 &amp; EH 224 and American Literature II: 1865-Present</td>
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<tr>
<td><strong>African, African American, or African Diasporic Literature</strong></td>
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<tr>
<td>Select one of the following:</td>
<td></td>
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<tr>
<td>EH 324  African-American Special Topics</td>
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<tr>
<td>EH 365  African American Literature, 1746-1954</td>
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<tr>
<td>EH 366  African American Literature, 1954-Present</td>
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<tr>
<td>EH 422  African Literature</td>
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<tr>
<td>EH 423  African Women’s Literature</td>
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</table>
EH 424 African-American Special Topics
EH 446 African American Autobiography
EH 447 African American Dramatic Tradition
EH 448 African American Poetry Tradition
EH 466 The Slave Narrative and Its Literary Expressions
EH 467 Black Women Writers
EH 468 The Harlem Renaissance

**Literature Pre-1700**
Select one of the following: 3
EH 325 Pre-1700 Lit Special Topics
EH 329 Literature of the Vikings
EH 376 Shakespeare
EH 425 Pre-1700 Literature Special Topics
EH 469 Medieval Culture: Literature and Society
EH 470 Arthurian Legend
EH 471 Beowulf in Context
EH 472 Introduction to Old English
EH 473 Chaucer: Pilgrimage to Canterbury
EH 474 English Renaissance Drama (Excluding Shakespeare)
EH 475 English Renaissance Poetry and Prose
EH 476 Shakespeare
EH 478 Milton

**Literature 1700-1900**
Select one of the following: 3
EH 326 1700-1900 Literature: Special Topics
EH 426 1700-1900 Literature: Special Topics
EH 460 American Women Writers Before 1900
EH 461 American Literature, 1620 - 1820
EH 462 American Literature, 1820 - 1870
EH 463 American Literature, 1870 - 1914
EH 480 The Restoration
EH 481 The Eighteenth Century: Literature and Culture
EH 482 The Eighteenth Century: Theory and Interpretation
EH 483 British Romanticism
EH 485 British Victorian Poetry
EH 486 Eighteenth-Century British Novel
EH 487 Nineteenth-Century British Novel

**Literature Post-1900**
Select one of the following: 3
EH 327 Post 1900 Literature: Special Topics
EH 339 Twentieth Century Theater
EH 366 African American Literature, 1954-Present
EH 414 Modern British and European Drama
EH 416 Modern American Poetry
EH 427 Post 1900 Literature: Special Topics
EH 431 Special Topics in Film
EH 442 Literary Theory and Criticism, the Twentieth Century to the Present
EH 444 Women’s Literature and Theory
EH 464 American Literature, 1914 - 1945
EH 465 American Literature, 1945-Present
EH 468 The Harlem Renaissance
EH 488 British Novel: The Modern Age
EH 489 James Joyce

**Study of English as a Language**
Select one of the following: 3
EH/LING 350 Introduction to Linguistics
EH/LING 351 Structure of English
EH/LING 352 The Structure of English Words
EH/LING 355 Introduction to Sociolinguistics
EH/LING 356 Semantics
EH/LING 360 Phonology
EH/LING 393 Special Topics in Linguistics
EH/LING 445 Advanced Grammar
EH/LING 451 Generative Grammar
EH/LING 452 Grammar and Usage for English Teachers
EH/LING 453 History of the English Language
EH/LING 454 The Biology of Language
EH/LING 493 Special Topics in Linguistics

**Advanced Writing**
Select one of the following: 3
EH 203 Writing in Birmingham
EH 303 Advanced Composition

**Professional Writing**
Select two of the following: 6
EH 304 Editing in Professional Contexts
EH 330 Professial Writing: Special Topics
EH 403 Business Writing
EH 404 Technical Writing
EH 430 Professional Writing: Special Topics
EH 433 Academic Writing

**Public Discourse**
Select two of the following: 6
EH 332 Public Discourse: Special Topics
EH 401 Tutoring Writing
EH 402 Writing in Popular Periodicals
EH 432 Public Discourse: Special Topics
EH 456 Visual Rhetoric
EH 457 Writing and Medicine
EH 459 Discourse Analysis

**Capstone**
Select one of the following: 3
EH 411 Capstone Internship
EH 495 Honors Capstone Thesis
EH 496 Capstone Seminar

Total Hours 42

1. Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.
2. Note that students who have completed EH 250 and EH 251 in the 2008-2009 catalog will be credited with having met this requirement.
Students may petition the Director of Professional Writing to have one relevant course in English or another discipline count toward this requirement.

EH 411 and EH 495 must be approved. This requirement should be satisfied in the student’s final year.

- Students majoring in English must achieve a grade of C or higher in all courses applied toward the major requirement.
- Fifteen semester hours of English courses at the 300 and 400 levels must be taken at UAB.
- Eighteen semester hours of English courses must be at the 400 level.
- A single course may not count toward more than one departmental requirement.

Proposed Program of Study for a Major in English with a Concentration in Literature

Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Select one of the following</td>
<td>3 EH 301</td>
<td>3 EH 301</td>
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<tr>
<td>EH 221</td>
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<tr>
<td>EH 223</td>
<td>EH 222</td>
<td>EH 224</td>
<td>EH 218</td>
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<tr>
<td>EH 217</td>
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Junior

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<th>First Term</th>
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<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>African, African-American, or African Diasporic Literature</td>
<td>3 English as a Language</td>
<td>3</td>
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<tr>
<td>Literature before 1700</td>
<td>3 Literature before 1700 (not previously taken)</td>
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<tr>
<td>Literature 1700-1900</td>
<td>3 English Elective (300-400 level)</td>
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Senior

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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Literature post 1900</td>
<td>3 English Elective (300-400 level)</td>
<td>3</td>
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<tr>
<td>English Electives (300-400 level)</td>
<td>6 Capstone</td>
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Total credit hours: 42

Proposed Program of Study for a Major in English with a Concentration in Creative Writing

Sophomore

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<th>First Term</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>Literature Sequence - select one:</td>
<td>3 EH 301</td>
<td>3</td>
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<tr>
<td>EH 221</td>
<td>Literature Sequence (select second course of fall sequence)</td>
<td>EH 221</td>
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<tr>
<td>EH 223</td>
<td>EH 224</td>
<td>EH 218</td>
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<tr>
<td>EH 217</td>
<td>3</td>
<td>6</td>
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Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>African, African-American or African Diasporic Literature</td>
<td>3 Literature 1700-1900</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Literature pre-1700</td>
<td>3 English as a Language</td>
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<td>Beginning Workshop select one:</td>
<td>3 Beginning Creative Writing Workshop (Select One):</td>
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<td>EH 205</td>
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<td>EH 305</td>
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Senior

<table>
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<th>First Term</th>
<th>Hours</th>
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<th>Hours</th>
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<tr>
<td>Literature post-1900</td>
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<td>One Advanced Creative Writing Workshop</td>
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<td>EH 410</td>
<td>EH 429</td>
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<tr>
<td>Creative Writing Forms Class (Select One):</td>
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<tr>
<td>EH 412</td>
<td>EH 437</td>
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<td>EH 413</td>
<td>Capstone</td>
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<tr>
<td>EH 415</td>
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<td>6</td>
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</table>

Total credit hours: 42

1 African, African-American or African Diasporic Literature: EH 324, EH 365, EH 366, EH 422, EH 423, EH 446, EH 467, or EH 468

2 Literature before 1700: EH 325, EH 329, EH 376, EH 425, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 476, or EH 478.

3 Literature 1700-1900: EH 326, EH 426, EH 460, EH 461, EH 462, EH 463, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, or EH 487.

4 English as a Language: EH 350, EH 351, EH 352, EH 355, EH 356, EH 360, EH 392, EH 450, EH 452, EH 453, EH 454 or EH 493.

5 Literature post-1900: EH 327, EH 339, EH 366, EH 414, EH 416, EH 427, EH 431, EH 442, EH 444, EH 446, EH 465, EH 468, EH 488, or EH 489.

6 Capstone: EH 411, EH 495 or EH 496. This requirement should be satisfied in the student’s final year.

Please Note: EH 411 and EH 495 require approval.
Literature before 1700: EH 325, EH 329, EH 376, EH 425, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 476, or EH 478.

Literature 1700-1900: EH 326, EH 426, EH 460, EH 461, EH 462, EH 463, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, or EH 487.

English as a Language: EH 350, EH 351, EH 352, EH 355, EH 356, EH 360, EH 392, EH 450, EH 452, EH 453, EH 454 or EH 493


Capstone: EH 411, EH 495 or EH 496. This requirement should be satisfied in the student’s final year.

Please Note: EH 411 and EH 495 require approval.

### Proposed Program of Study for a Major in English with a Concentration in Linguistics

<table>
<thead>
<tr>
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<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Literature Sequence (Select One):</td>
<td>EH 203 or EH 303</td>
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<td>EH 401</td>
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<tr>
<td>Literature Sequence (Select second sequence from fall):</td>
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<td>3</td>
<td>EH 222</td>
<td>3</td>
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<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
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<td>EH 218</td>
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<tr>
<td>Literature Sequence (Select second sequence from fall):</td>
<td>EH 222</td>
<td>3</td>
<td>EH 224</td>
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<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 218</td>
<td>3</td>
</tr>
<tr>
<td>Literature Sequence (Select One):</td>
<td>EH 221</td>
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<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 218</td>
<td>3</td>
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<tr>
<td>Literature Sequence (Select second sequence from fall):</td>
<td>EH 222</td>
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<td>EH 224</td>
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<tr>
<td>English as a Language</td>
<td>EH 350</td>
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</table>

Total credit hours: 42

### Proposed Program of Study for a Major in English with a Concentration in Professional Writing

<table>
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<th>First Term</th>
<th>Hours</th>
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<td>Literature Sequence (Select One):</td>
<td>EH 203 or EH 303</td>
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<td>EH 401</td>
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<td>Literature Sequence (Select second course from fall):</td>
<td>EH 217</td>
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<td>EH 222</td>
<td>3</td>
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<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
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<td>Literature Sequence (Select One):</td>
<td>EH 221</td>
<td>3</td>
<td>EH 222</td>
<td>3</td>
</tr>
<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
<td>3</td>
</tr>
<tr>
<td>Literature Sequence (Select second sequence from fall):</td>
<td>EH 222</td>
<td>3</td>
<td>EH 224</td>
<td>3</td>
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<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
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<td>Literature Sequence (Select One):</td>
<td>EH 221</td>
<td>3</td>
<td>EH 222</td>
<td>3</td>
</tr>
<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
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<tr>
<td>Literature Sequence (Select second sequence from fall):</td>
<td>EH 222</td>
<td>3</td>
<td>EH 224</td>
<td>3</td>
</tr>
<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
<td>3</td>
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<tr>
<td>Literature Sequence (Select One):</td>
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<td>3</td>
<td>EH 222</td>
<td>3</td>
</tr>
<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
<td>3</td>
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<tr>
<td>Literature Sequence (Select second sequence from fall):</td>
<td>EH 222</td>
<td>3</td>
<td>EH 224</td>
<td>3</td>
</tr>
<tr>
<td>English as a Language</td>
<td>EH 350</td>
<td>3</td>
<td>EH 224</td>
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Total credit hours: 42

1. African, African-American or African Diasporic Literature: EH 324, EH 365, EH 366, EH 422, EH 423, EH 424, EH 446, EH 467, or EH 468
2. Literature before 1700: EH 325, EH 329, EH 376, EH 425, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 476, or EH 478.
3. Literature 1700-1900: EH 326, EH 426, EH 460, EH 461, EH 462, EH 463, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, or EH 487.
4. English as a Language: EH 350, EH 351, EH 352, EH 355, EH 356, EH 360, EH 392, EH 450, EH 452, EH 453, EH 454 or EH 493
6. Capstone: EH 411, EH 495 or EH 496. This requirement should be satisfied in the student’s final year.

Please Note: EH 411 and EH 495 require approval.
Total credit hours: 42

1. African, African-American or African Diasporic Literature: EH 324, EH 365, EH 366, EH 422, EH 423, EH 424, EH 446, EH 467, or EH 468
2. Literature before 1700: EH 325, EH 329, EH 376, EH 425, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 476, or EH 478.
3. Literature 1700-1900: EH 326, EH 426, EH 460, EH 461, EH 462, EH 463, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, or EH 487.
4. English as a Language: EH 350, EH 351, EH 352, EH 355, EH 356, EH 360, EH 392, EH 450, EH 452, EH 453, EH 454 or EH 493
6. Capstone: EH 411, EH 495 or EH 496. This requirement should be satisfied in the student’s final year.

Please Note: EH 411 and EH 495 require approval.

Minor in English Literature (p. 134)
Minor in Writing (p. 144)
Minor in Creative Writing (p. 136)
Minor in Linguistics (p. 137)

Minor Requirements for English Literature

<table>
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<th>Hours</th>
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<tr>
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<tr>
<td>EH 301 Reading, Writing, and Research for English Majors</td>
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<tr>
<td>Literature Pre-1700</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>EH 325 Pre-1700 Lit Special Topics</td>
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<td>EH 329 Literature of the Vikings</td>
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<td>EH 376 Shakespeare</td>
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<td>EH 425 Pre-1700 Literature Special Topics</td>
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<tr>
<td>EH 469 Medieval Culture: Literature and Society</td>
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<td>EH 470 Arthurian Legend</td>
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<td>EH 471 Beowulf in Context</td>
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<tr>
<td>EH 472 Introduction to Old English</td>
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<tr>
<td>EH 473 Chaucer: Pilgrimage to Canterbury</td>
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<tr>
<td>EH 474 English Renaissance Drama (Excluding Shakespeare)</td>
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<tr>
<td>EH 475 English Renaissance Poetry and Prose</td>
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<tr>
<td>EH 476 Shakespeare</td>
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<td>EH 478 Milton</td>
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<tr>
<td>Literature 1700-1900</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>EH 326 1700-1900 Literature: Special Topics</td>
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<tr>
<td>EH 426 1700-1900 Literature: Special Topics</td>
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<tr>
<td>EH 460 American Women Writers Before 1900</td>
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<tr>
<td>EH 461 American Literature, 1620 - 1820</td>
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<td>EH 462 American Literature, 1820 - 1870</td>
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<tr>
<td>EH 463 American Literature, 1870 - 1914</td>
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<tr>
<td>EH 480 The Restoration</td>
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<tr>
<td>EH 481 The Eighteenth Century: Literature and Culture</td>
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<tr>
<td>EH 482 The Eighteenth Century: Theory and Interpretation</td>
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<tr>
<td>EH 483 British Romanticism</td>
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<td>EH 485 British Victorian Poetry</td>
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<tr>
<td>EH 486 Eighteenth-Century British Novel</td>
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<tr>
<td>EH 487 Nineteenth-Century British Novel</td>
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</table>

| Literature Post-1900                     |       |
| Select one of the following:            | 3     |
| EH 327 Post 1900 Literature: Special Topics | |
| EH 339 Twentieth Century Theater        |       |
| EH 366 African American Literature, 1914 - 1945 | |
| EH 414 Modern British and European Drama |       |
| EH 416 Modern American Poetry            |       |
| EH 427 Post 1900 Literature: Special Topics | |
| EH 431 Special Topics in Film            |       |
| EH 442 Literary Theory and Criticism, the Twentieth Century to the Present | |
| EH 444 Women’s Literature and Theory     |       |
| EH 464 American Literature, 1914 - 1945  |       |
| EH 465 American Literature, 1945-Present |       |
| EH 468 The Harlem Renaissance            |       |
| EH 488 British Novel: The Modern Age    |       |
| EH 489 James Joyce                       |       |

| English Electives 2                     | 6     |
| Select two of the following:           |       |
| EH 203 Writing in Birmingham           |       |
| EH 205 Introduction to Creative Writing |       |
| EH 210 Interpreting Film               |       |
| EH 214 Introduction to Literature: Special Topics | |
| EH 302 Intermediate Writing            |       |
| EH 303 Advanced Composition            |       |
| EH 304 Editing in Professional Contexts|       |
| EH 305 Beginning Poetry Writing Workshop|      |
| EH 306 Beginning Poetry Writing Workshop|      |
| EH 307 Beginning Creative Nonfiction Writing Workshop | |
| EH 308 Beginning Creative Nonfiction Writing Workshop | |
| EH 309 Beginning Fiction Writing Workshop |       |
| EH 310 Beginning Fiction Writing Workshop |       |
| EH 318 Science Fiction                 |       |
| EH 324 African-American Special Topics  |       |
| EH 325 Pre-1700 Lit Special Topics      |       |
| EH 326 1700-1900 Literature: Special Topics |   |
| EH 327 Post 1900 Literature: Special Topics |   |
| EH 328 English Elective: Special Topics |       |
| EH 329 Literature of the Vikings        |       |
| EH 339 Twentieth Century Theater        |       |
| EH 350 Introduction to Linguistics      |       |
| EH 351 Structure of English             |       |
| EH 352 The Structure of English Words   |       |
| EH 355 Introduction to Sociolinguistics |       |
| EH 356 Semantics                        |       |
| EH 360 Phonology                        |       |
| EH 365 African American Literature, 1746-1954 | |
| EH 366 African American Literature, 1954-Present | |
| EH 367 Southern Literature              |       |
Minor Requirements for Writing

Requirements | Hours
---|---
Advanced Writing
Select two of the following: | 6
EH 203 | Writing in Birmingham
EH 301 | Reading, Writing, and Research for English Majors
EH 303 | Advanced Composition
Professional Writing/Public Discourse
Select one or two of the following (Professional Writing): | 9
EH 422 | African Literature
EH 423 | African Women’s Literature
EH 424 | African-American Special Topics
EH 425 | Pre-1700 Literature Special Topics
EH 426 | 1700-1900 Literature: Special Topics
EH 427 | Post 1900 Literature: Special Topics
EH 428 | English Elective: Special Topics
EH 429 | Creative Writing: Special Topics
EH 430 | Professional Writing: Special Topics
EH 431 | Special Topics in Film
EH 432 | Public Discourse: Special Topics
EH 433 | Academic Writing
EH 435 | Teaching Creative Writing
EH 436 | Workshop in Writing for Young People
EH 437 | Workshop in Writing for Young People
EH 441 | Literary Theory and Criticism, the Ancients to the Nineteenth Century
EH 442 | Literary Theory and Criticism, the Twentieth Century to the Present
EH 443 | Archetype and Myth
EH 444 | Women’s Literature and Theory
EH 446 | African American Autobiography
EH 447 | African American Dramatic Tradition
EH 448 | African American Poetry Tradition
EH 450 | Advanced Grammar
EH 451 | Generative Grammar
EH 452 | Grammar and Usage for English Teachers
EH 453 | History of the English Language
EH 454 | The Biology of Language
EH 456 | Visual Rhetoric
EH 457 | Writing and Medicine
EH 459 | Discourse Analysis
EH 460 | American Women Writers Before 1900
EH 461 | American Literature, 1620 - 1820
EH 462 | American Literature, 1820 - 1870
EH 463 | American Literature, 1870 - 1914
EH 464 | American Literature, 1914 - 1945
EH 465 | American Literature, 1945-Present
EH 466 | The Slave Narrative and Its Literary Expressions
EH 467 | Black Women Writers
EH 468 | The Harlem Renaissance
EH 469 | Medieval Culture: Literature and Society
EH 470 | Arthurian Legend
EH 471 | Beowulf in Context
EH 472 | Introduction to Old English
EH 473 | Chaucer: Pilgrimage to Canterbury
EH 474 | English Renaissance Drama (Excluding Shakespeare)
EH 475 | English Renaissance Poetry and Prose
EH 476 | Shakespeare
EH 478 | Milton
EH 480 | The Restoration
EH 481 | The Eighteenth Century: Literature and Culture
EH 482 | The Eighteenth Century: Theory and Interpretation
EH 483 | British Romanticism
EH 485 | British Victorian Poetry
EH 486 | Eighteenth-Century British Novel
EH 487 | Nineteenth-Century British Novel
EH 488 | British Novel: The Modern Age
EH 489 | James Joyce
EH 493 | Special Topics in Linguistics
EH 494 | English Honors Research
EH 495 | Honors Capstone Thesis
EH 496 | Capstone Seminar
EH 497 | Individual Studies

Total Hours 18

1. Required except where already taken as part of a concentration in PW, CW, or Ling
2. Students may not use EH 311 to satisfy this requirement. Only three hours may be satisfied by a Creative Writing course (EH 305, EH 306, EH 307, EH 308, EH 309, EH 310, EH 405, EH 406, EH 407, EH 408, EH 409, EH 410, EH 412, EH 413, EH 415, EH 436 or EH 437).

- Students minoring in English Literature must achieve a grade of C or higher in all courses applied toward the minor.
- English courses at the 300 and 400 levels must be taken at UAB.
- At least nine of the eighteen hours required for the minor must be taken at the 400 level.
- A single course may not count toward more than one departmental requirement.

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<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>EH 301</td>
<td>Reading, Writing, and Research for English Majors</td>
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<tr>
<td>EH 303</td>
<td>Advanced Composition</td>
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Minor Requirements for Creative Writing

Requirements

Creative Writing Workshops
Select three of the following: 9
- EH 305 Beginning Poetry Writing Workshop
- EH 306 Beginning Poetry Writing Workshop
- EH 307 Beginning Creative Nonfiction Writing Workshop
- EH 308 Beginning Creative Nonfiction Writing Workshop
- EH 309 Beginning Fiction Writing Workshop
- EH 310 Beginning Fiction Writing Workshop

Advanced Creative Writing Workshops
Select two of the following: 6
- EH 405 Poetry Writing Workshop
- EH 406 Poetry Writing Workshop
- EH 407 Creative Nonfiction Writing Workshop
- EH 408 Creative Nonfiction Writing Workshop
- EH 409 Fiction Writing Workshop
- EH 410 Fiction Writing Workshop
- EH 415 Forms of Fiction
- EH 429 Creative Writing: Special Topics
- EH 436 Workshop in Writing for Young People
- EH 437 Workshop in Writing for Young People

Creative Writing Elective
Select one of the following: 3
- EH 205 Introduction to Creative Writing
- EH 305 Beginning Poetry Writing Workshop
- EH 306 Beginning Poetry Writing Workshop
- EH 307 Beginning Creative Nonfiction Writing Workshop
- EH 308 Beginning Creative Nonfiction Writing Workshop
- EH 309 Beginning Fiction Writing Workshop
- EH 405 Poetry Writing Workshop
- EH 406 Poetry Writing Workshop
- EH 407 Creative Nonfiction Writing Workshop
- EH 408 Creative Nonfiction Writing Workshop
- EH 409 Fiction Writing Workshop
- EH 410 Fiction Writing Workshop
- EH 412 Forms of Poetry
- EH 413 Forms of Creative Nonfiction
- EH 415 Forms of Fiction
- EH 429 Creative Writing: Special Topics
- EH 436 Workshop in Writing for Young People
- EH 437 Workshop in Writing for Young People

Total Hours 18

- Students minoring in Creative Writing must achieve a grade of C or higher in all courses applied toward the minor.
- English courses at the 300 and 400 levels must be taken at UAB.
- At least six of the eighteen hours required for the minor must be taken at the 400 level.
- A single course may not count toward more than one departmental requirement.
Minor Requirements for Linguistics

<table>
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<th>Requirements</th>
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<td><strong>Required Courses</strong></td>
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<td>EH/LING 350 Introduction to Linguistics</td>
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<tr>
<td>EH/LING 451 Generative Grammar</td>
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<td>EH/LING Structure of English</td>
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<tr>
<td>EH/LING Phonology</td>
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<tr>
<td>EH/LING Advanced Grammar</td>
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<tr>
<td>EH/LING History of the English Language</td>
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<tr>
<td>EH/LING Special Topics in Linguistics</td>
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<tr>
<td>LING/ANTH Special Problems in Linguistics</td>
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</tr>
<tr>
<td><strong>Linguistics Electives</strong></td>
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<tr>
<td>Select two of the following:</td>
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<td>EH/LING Structure of English</td>
<td>3</td>
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<tr>
<td>EH/LING The Structure of English Words</td>
<td>3</td>
</tr>
<tr>
<td>EH/LING Introduction to Sociolinguistics</td>
<td>3</td>
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<tr>
<td>EH/LING Semantics</td>
<td>3</td>
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<tr>
<td>EH/LING Phonology</td>
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<td>EH/LING Special Topics in Linguistics</td>
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<tr>
<td>EH/LING Advanced Grammar</td>
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<tr>
<td>EH/LING Grammar and Usage for English Teachers</td>
<td>3</td>
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<tr>
<td>EH/LING History of the English Language</td>
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<td>EH/LING The Biology of Language</td>
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<td>EH/LING Special Topics in Linguistics</td>
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<tr>
<td>LING/CS Computational Linguistics</td>
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<td>LING/ANTH Special Problems in Linguistics</td>
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<tr>
<td>LING/ANTH Special Problems in Linguistics</td>
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</tbody>
</table>

Total Hours: 18

1. Must be approved: LING 493/EH 493, LING 494/ANTH 494 & LING 495/ANTH 495

3. Students may petition the Program Director to have one relevant non-Linguistics course in English or another discipline that does not appear on this list count toward this requirement.

- Students minoring in Linguistics must achieve a grade of C or higher in all courses applied toward the minor.
- English courses at the 300 and 400 levels must be taken at UAB.
- At least nine of the eighteen hours required for the minor must be taken at the 400 level.
- A single course may not count toward more than one departmental requirement.

Honors in English

Purpose

The English Honors program is designed for outstanding English majors. In their senior year, qualified students write a Senior Thesis under the supervision of an Honors Thesis Committee.

Benefits

Benefits of participating in the Honors Program in English include individual mentoring by exceptional faculty and useful practice in undertaking extended work in the area of English, American, African American, and world literatures; creative writing; linguistics; or professional writing and rhetoric. Writing the thesis gives students the chance to work one-on-one with outstanding research faculty in all fields of English study. Our honors students thus gain valuable writing and critical experience, personalized writing instruction, and the opportunity to acquire especially strong letters of recommendation from committee members. Students completing the program are recognized at the English Department Awards Reception and will graduate from UAB “With Honors in English” at their UAB commencement.

Eligibility

To be eligible for the Honors Program in English, a student must be enrolled as a UAB English major, have earned a 3.5 GPA in English courses taken and a 3.0 GPA overall, and have completed EH 301 Reading, Writing, and Research for English Majors.

Requirements

Qualified students electing to enter and complete the Honors Program in English must do the following:

- Submit a completed English Honors Program application form to the Director of Departmental Honors for approval. Students must secure permission of the Director in order to enter the English Honors Program.
- Select a member of the English graduate faculty to serve as a faculty mentor and one other member of the English graduate faculty to serve with that mentor and the Director on the Honors Thesis Committee.
- Fill out a Senior Thesis Committee Form and give it to the Director for approval.
- Enroll in EH 494 English Honors Research and EH 495 Honors Capstone Thesis in consecutive terms.
- During EH 494 English Honors Research, write a thesis proposal and have it approved by the Honors Thesis Committee. Once approved, a copy of the proposal should be given to the Director.
- During EH 495 Honors Capstone Thesis, write the thesis under the committee’s guidance.
Eligibility and Procedures

- Obtain final approval of the senior thesis from all members of the Honors Thesis Committee.
- Complete a final, one-hour public defense of the thesis.
- Students who earn an A in EH 495 will graduate with Departmental Honors. Students who earn a B or C will not graduate with Departmental Honors but will still fulfill the capstone requirement.

Contact

Program descriptions are available from the department website (www.uab.edu/cas/english) or the department office.

Internships in English

The English Department, in cooperation with university-wide and off-campus partners, offers its majors and minors internship experiences that enhance their attractiveness to prospective employers. Many internships have resulted in part-time or full-time employment after the semester has concluded. Within the English department, opportunities include assisting the editors of PMS: poemmemoirstory and Birmingham Poetry Review. Students also intern in other parts of the university; past collaborations have included the School of Education and UAB Health Systems Marketing. Organizations within the Birmingham community specializing in magazine and book publishing, non-profit fund raising, and business communications round out possibilities for acquiring the practical experience that will enhance students’ resumes while helping them to build a professional portfolio demonstrating their knowledge and skills.

English majors interested in internships should meet with Dr. Cynthia Ryan, Director of Internships, to discuss eligibility requirements and available internship opportunities. Students accepted for internships enroll in either EH 311 or EH 411. EH 311 requirements include at least the following: performance of 10-15 hours of research or publications activities per week, as defined by the on-site supervisor, completion of journal entries that draw on the intern’s experiences, and completion of a written report addressing an aspect of the internship approved by Dr. Ryan in consultation with the student. On-site supervisors also provide written evaluations of interns, feedback that can assist students as they pursue careers following graduation. EH 411 satisfies the Capstone requirement for the major and involves more academic work, including more extensive journal assignments, regular meetings with the Director and other EH 411 students, participation in discussion sessions with scheduled speakers, and a final professional portfolio and exit interview. Students who wish to enroll in EH 411 should be late-term juniors or seniors. Internships are graded classes, and final grades are based on the student’s work ethic and written work and are determined by the Director in consultation with the student’s on-site internship supervisor.

Eligibility and Procedures

Students must meet the following requirements to be eligible for an English internship:

- Must be enrolled full-time as English majors or minors at UAB
- Must have a minimum overall GPA of 3.0 or higher for an off-campus internship or an on-campus research internship, and a 2.5 overall GPA or higher for a publications Internship
- Must have at least junior standing or the equivalent course credits
- Must be approved for the internship by the Director of Internships
- Must be able to work the required number of hours (10-15) to fulfill commitments to the employer

- If awarded an internship, must enroll in EH 311 or EH 411 for the internship semester and—under the supervision of the Internship Director—must fulfill all requirements for that course.

Students who qualify for English internships should follow these procedures:

- Make an appointment with the Director of Internships, Dr. Cynthia Ryan, at the beginning of the semester prior to the semester in which you hope to hold an internship.
- Following the meeting, complete the Internship Application Form, available from the Director of Internships or from http://www.uab.edu/cas/english/undergraduate-studies/internships-in-english
- Stay in contact with the Internship Director for information about scheduling interviews with potential employers and prepare -- with the assistance of the Internship Director -- for interviews.
- Once accepted by the on-site supervisor for an internship, contact the Internship Director to enroll in EH 311 or EH 411.

Questions:

For more information about the Internship program in English, contact Dr. Cynthia Ryan at cynryan@uab.edu. HB211, (205) 934-8600.

Department of Foreign Languages and Literatures

Chair: Serge Bokobza
Associate Chair: Roberto Mayoral Hernández
Director, Foreign Language Media Services: John Brock Cochran

The Department of Foreign Languages and Literatures offers a multifaceted foreign language program that will meet the diverse global challenges facing students of the 21st century. The Department offers programs of study leading to the degree of Bachelor of Arts in Foreign Languages with concentrations in French and Spanish. The Department offers minor programs in Chinese, French, German, Japanese, Spanish and Spanish for Business, as well as a Certificate of Spanish for Specific Purposes. There are also opportunities for students to take courses in Arabic, Italian and courses about foreign cultures and literatures in English. Additional courses in foreign languages may be taken through the Birmingham Area Consortium for Higher Education (BACHE). Promoting a comprehensive view of foreign cultures, languages and literatures enhances the students’ ability to compete in the job market and/or pursue graduate or professional studies.

Our programs are rooted in diversity within and across cultures, and foster the international exchange of knowledge and information between humanities scholars, teachers and other professionals. Our instructional methods are aligned with national standards. The foreign language experience at UAB includes classroom learning, scholarship and research, experiential learning, and extracurricular opportunities.

The UAB Department of Foreign Languages and Literatures offers traditional language, culture, civilization, linguistics and literature classes and also enrolls students in such fields as literature in translation, film and cultural studies, foreign media and society, US Latino topics, applied linguistics and languages for the professions.

The Department also offers an Honors Track Program and internships in Foreign Languages to students in Spanish for Specific Purposes, and for
qualified majors with Departmental approval. Furthermore, we promote and sponsor opportunities for study abroad in conjunction with UAB Study Away programs. UAB Distinguished Professor Emeritus of French, William C. Carter has built one of the world’s largest collections of books by and about French author Marcel Proust. The collection is housed on campus in Mervyn H. Sterne Library and includes original letters and other documents.

For more information about our programs, online placement exams, internships, events and sponsored study abroad opportunities, visit the Department of Foreign Languages and Literatures web site at http://www.uab.edu/cas/languages/.

**Language Placement**

To assure that students taking foreign language courses are properly placed, all students must take a placement exam in the language before enrolling in foreign language classes. Students enrolling in Arabic, Chinese, Italian and Japanese will work directly with designated foreign language faculty members to ensure proper placement. Placement exams in French, Spanish, and German are available online at the Department of Foreign Languages and Literatures web site: http://www.uab.edu/cas/languages/placement-test. The level at which native/heritage language speakers may begin formal language study will be determined by the appropriate foreign language advisor after the student has taken the online placement exam. Exceptional native/heritage language students may apply for Credit by Examination (CBE). The College Level Examination Program (CLEP) is available in French, German, and Spanish.

**Major**

The Department of Foreign Languages and Literatures offers programs of study leading to the degree of Bachelor of Arts in Foreign Languages with concentrations in French and Spanish. Students who major or minor in foreign languages are encouraged to consult the Department web page to identify the appropriate departmental advisor to assist in formulating an individual program of study.

The foreign language major requires completion of the introductory sequence (Introductory French I and II or Introductory Spanish I and II) or the equivalent.

**Concentration in French**

The French concentration/track at UAB offers an articulated approach to the study of the French language and the culture, civilization and literature of the French-speaking world. Literacy skills and understanding (e.g., reading, writing, speaking) are developed throughout the course of study, as is the nurturing of critical and analytical skills. Majors will leave the program with the ability to engage in critical and cross-cultural analysis. Students have the opportunity to do in-depth work in special topics seminars like Afro-Hispanic writers, Hispanic and Latino topics, peninsular film applied linguistics, and social linguistics. Typically, French concentration majors have more than one major or a complement of minors to facilitate the applied aspect of language study (e.g., pre-health, nursing, education, anthropology, communication studies, business, and international studies). Students graduating from UAB with a concentration in Spanish have gone on to graduate or professional school and/or employment in such fields as business, education, government, industry, international relations, law, medicine, publishing, translation, and interpretation.

The French concentration has opportunities for community outreach activities (e.g., internships, service learning) in Alabama, and has diverse study abroad opportunities from which to choose. We work very closely with students to personalize their studying experience. We also help them to find ways to enhance their language and culture skills through unique experiences abroad (e.g., application for French government youth grants and internships, teaching exchanges).

The Department requires students to enroll in more than one language to learn about varied linguistic structures and receive a broader cross-cultural perspective.

**Concentration in Spanish**

The Spanish concentration/track at UAB offers an articulated approach to the study of the Spanish language and the culture, civilization and literature of the Spanish-speaking world. Literacy skills and understanding (e.g., reading, writing, speaking) are developed throughout the course of study, as well as the nurturing of critical and analytical skills. Majors will leave the program with the ability to engage in critical and cross-cultural analysis. Students have the opportunity to do in-depth work in special topics seminars like Afro-Hispanic writers, Hispanic and Latino topics, peninsular film applied linguistics, and social linguistics. Typically, Spanish concentration majors have more than one major or a complement of minors to facilitate the applied aspect of language study (e.g., pre-health, nursing, education, anthropology, communication studies, business, and international studies). Students graduating from UAB with a concentration in Spanish have gone on to graduate or professional school and/or employment in such fields as business, education, government, industry, international relations, law, medicine, publishing, translation, and interpretation.

The Spanish concentration major has significant opportunities for community outreach activities (e.g., internships, service learning) in Alabama, and has diverse study abroad opportunities from which to choose.

The Department requires students to enroll in more than one language to learn about varied linguistic structures and receive a broader cross-cultural perspective.

**Minor**

Twelve semester hours at the 200 level or above are required for the minor in Chinese, French, German, Japanese, Spanish, or Business Spanish. No course in which a grade below C has been earned may be counted toward the minor requirement. The Department of Foreign Languages and Literatures strongly recommends that more than half of student course work for the minor be completed on the UAB campus. Students that transfer courses from non-UAB programs into the UAB minor programs will be examined for placement and proficiency level. At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

**Foreign Language Media Services**

The computer-based Foreign Language Media Services (FLMS) at UAB enables students, faculty and community users to access and utilize foreign languages and cultures in a digital environment in order to provide multi-dimensional learning and research opportunities. The FLMS plays an integral role in the activities and services of the UAB Department of Foreign Languages and Literatures and also serves as a support center for the University. The FLMS enables the UAB Department of Foreign Languages and Literatures to respond to the demand for additional
language resources, the requirements for a wider range of tasks being performed in the languages, a greater number of language learners of different types and a broader array of instructional modes.

For more information about FLMS, online placement exams and internships, visit the Department of Foreign Languages and Literatures website: http://www.uab.edu/cas/languages/.

Foreign Language Education

The Department of Foreign Languages and Literatures offers undergraduate and graduate foreign language classes regularly. The Department of Foreign Languages and Literatures provides content courses and collaborates on advising for both undergraduate and graduate degrees in foreign language education. Students interested in seeking one of the degrees in foreign language education should contact UAB Department of Curriculum and Instruction (School of Education).

Concentration in French (p. 149)

Concentration in Spanish (p. 150)

Major Requirements for Foreign Languages (Concentration in French)

<table>
<thead>
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<td><strong>Additional Introductory Foreign Language Course</strong></td>
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<td>CHI 101 Introductory Chinese I</td>
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<td>GN 101 Introductory German I</td>
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<td>ITL 101 Introductory Italian I</td>
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<td>JPA 101 Introductory Japanese I</td>
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<td>SPA 101 Introductory Spanish I / QL</td>
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<td><strong>Foreign Cultures through Literature and Film</strong></td>
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<td>Select one of the following courses:</td>
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<td>FLL 220 Foreign Literatures in English Translation</td>
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<td>FLL 303 History of World Movies I: The Origins to 1960</td>
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<td>FLL 304 History of World Movies II</td>
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<td>FLL 305 Borders and Crossings inside the Global Village</td>
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<td>EH 218 World Literature II: 1660-Present</td>
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<td><strong>Introduction to Linguistics</strong></td>
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<tr>
<td>Please select one of the following courses:</td>
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<tr>
<td>FLL 350 Introduction to Romance Linguistics</td>
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<tr>
<td>EH/LING 350 Introduction to Linguistics</td>
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<td><strong>Capstone: Foreign Language Seminar</strong></td>
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<tr>
<td>FLL 485 Foreign Language Capstone Seminar</td>
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<tr>
<td><strong>Study Abroad</strong></td>
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<tr>
<td>Select six hours from the following:</td>
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<td>FR 290 Study Abroad</td>
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<tr>
<td>FR 490 Study Abroad</td>
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</table>

Total Hours 21-22

1 Also counts in Core Curriculum Area II: Humanities and Fine Art

Other Requirements (Concentration in French)

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<th>Requirements</th>
<th>Hours</th>
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<tr>
<td><strong>French 200-level</strong></td>
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<tr>
<td>Select 12 credit hours from the following courses:</td>
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<td>FR 201 Intermediate French I</td>
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<td>FR 202 Intermediate French II</td>
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<tr>
<td>FR 206 Intermediate Business French</td>
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<tr>
<td>FR 210 Intermediate French Culture</td>
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<tr>
<td>FR 211 Intermediate Survey of French Literature</td>
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<td>FR 220 Intermediate French Composition</td>
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<td>FR 230 Intermediate French Conversation</td>
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<td>FR 290 Study Abroad</td>
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<td><strong>French 300-level</strong></td>
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<td>Select 12 credit hours from the following courses:</td>
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<td>FR 305 French-Speaking Cinema</td>
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<td>FR 306 Business French</td>
<td></td>
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<tr>
<td>FR 308 Advanced Grammar and Composition II</td>
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<tr>
<td>FR 310 Advanced French Culture</td>
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<tr>
<td>FR 311 Advanced Survey of French Literature</td>
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<tr>
<td>FR 320 Advanced French Composition</td>
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<td>FR 330 Advanced French Conversation</td>
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<tr>
<td>FR 390 Study Abroad</td>
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<tr>
<td>FR 399 Special Readings in French</td>
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<tr>
<td><strong>French 400-level (Must be taken at UAB)</strong></td>
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<td>Select 9 credit hours from the following courses:</td>
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<td>FR 401 Pre-Revolutionary France (1610-1789)</td>
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<td>FR 402 Post-Revolutionary France (1789-1913)</td>
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<tr>
<td>FR 403 Fin-de-Siecle France (1895-1940)</td>
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<tr>
<td>FR 404 French Literature since 1940</td>
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<td>FR 405 Francophone Literature</td>
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<td>FR 410 Special Topics in French</td>
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<tr>
<td>FR 412 French Civilization: before 1789 Pre-Revolutionary</td>
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<tr>
<td>FR 413 French Civilization after 1789 Post-Revolutionary</td>
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<td>FR 490 Study Abroad</td>
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<tr>
<td>FR 499 Directed Studies</td>
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</table>

Total Hours 33

Grade Requirement

No course in which a grade below C has been earned may be counted toward the major.

Beginning Language Requirement

To enroll in any 200-level French (FR) course, students must either complete 8 hours of 100-level French (FR) courses or complete the equivalent placement test.
### Major Requirements for Foreign Languages (Concentration in Spanish)

<table>
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<td><strong>Additional Introductory Foreign Language Course</strong></td>
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<td>CHI 101 Introductory Chinese I</td>
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<td>GN 101 Introductory German I</td>
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<td>ITL 101 Introductory Italian I</td>
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<td>JPA 101 Introductory Japanese I</td>
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<td>FLL 303 History of World Movies I: The Origins to 1960</td>
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<td>FLL 305 Borders and Crossings inside the Global Village</td>
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<tr>
<td>EH 218 World Literature II: 1660-Present</td>
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<td><strong>Introductions to Linguistics</strong></td>
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<td>FLL 485 Foreign Language Capstone Seminar</td>
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<td><strong>Study Abroad</strong></td>
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<td>SPA 390 Study Abroad</td>
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<td>SPA 490 Study Abroad</td>
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<tr>
<td>FLL 333 Foreign Language Internship/SL (This course can only satisfy the Study Away requirement with prior approval from the DFLL Chair)</td>
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Total Hours: 21-22

1 Also counts in Core Curriculum Area II: Humanities and Fine Art

### Other Requirements (Concentration in Spanish)

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<td>SPA 206 Intermediate Spanish for the Professions</td>
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<tr>
<td>SPA 210 Conversation and Culture</td>
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<td>SPA 214 Introduction to Translation and Interpretation for the Professions</td>
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<tr>
<td>SPA 233 Intermediate Spanish Composition and Conversation</td>
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<td>SPA 280 Spanish for Health Professionals</td>
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<tr>
<td>SPA 290 Study Abroad</td>
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<tr>
<td>SPA 300 Advanced Grammar and Composition</td>
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<tr>
<td>SPA 304 Phonetics and Phonology</td>
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<tr>
<td>SPA 310 Cultures of the Spanish-Speaking World</td>
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<tr>
<td>SPA 311 Survey of Spanish Peninsular Literature</td>
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<td>SPA 440 History of Spanish Language</td>
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<td>SPA 450 Spanish Second Language Acquisition</td>
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<td>SPA 490 Study Abroad</td>
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<tr>
<td>SPA 499 Directed Studies</td>
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</table>

Total Hours: 33

### Grade Requirement

No course in which a grade below C has been earned may be counted toward the major.

### Beginning Language Requirement

To enroll in any 200-level Spanish (SPA) course, students must either complete 8 hours of 100-level Spanish (SPA) courses or complete the equivalent placement test.

### Proposed Program of Study for a Major in Foreign Language with a Concentration in French

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</tbody>
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| Total Hours | 33 | |

Grade Requirement

No course in which a grade below C has been earned may be counted toward the major.

Beginning Language Requirement

To enroll in any 200-level Spanish (SPA) course, students must either complete 8 hours of 100-level Spanish (SPA) courses or complete the equivalent placement test.
### Proposed Program of Study for a Major in Foreign Language with a Concentration in Spanish

**Freshman**

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**Sophomore**

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<th>Hours Second Term</th>
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<tbody>
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<tr>
<td>Spanish Courses (200 level or above)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 FLL 350 or EH 350</td>
<td></td>
<td></td>
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</tr>
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</table>

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**Junior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours Total</th>
</tr>
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<tbody>
<tr>
<td>First Term</td>
<td>6</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Spanish Courses (300 level or above)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Spanish Courses (300 level or above)</td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Study Away courses (or FLL 333)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Senior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>6</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Spanish Courses (400 level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish Courses (400 level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Total credit hours: 54**

1. Student chooses an introductory language course outside his/her concentration.
2. S.A. = Study Away. Student must take six hours of Study Away (S.A.) courses (FR 290, FR 390 or FR 490). FLL 333 can only satisfy the S.A. requirement with prior approval from the DFLL Chair.

### Minor Requirements for French

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>To enroll in any 200-level French (FR) course, students must either complete 8 hours of 100-level French (FR) courses or complete the equivalent placement test.</td>
<td>8</td>
</tr>
<tr>
<td>No course in which a grade below C has been earned may be counted toward a minor.</td>
<td></td>
</tr>
<tr>
<td><strong>French Courses</strong></td>
<td>12</td>
</tr>
<tr>
<td>Select 12 credit hours from 200-level, 300-level, or 400-level French (FR)</td>
<td></td>
</tr>
<tr>
<td>FR 201 Intermediate French I</td>
<td></td>
</tr>
<tr>
<td>FR 202 Intermediate French II</td>
<td></td>
</tr>
<tr>
<td>FR 206 Intermediate Business French</td>
<td></td>
</tr>
<tr>
<td>FR 210 Intermediate French Culture</td>
<td></td>
</tr>
<tr>
<td>FR 211 Intermediate Survey of French Literature</td>
<td></td>
</tr>
<tr>
<td>FR 220 Intermediate French Composition</td>
<td></td>
</tr>
<tr>
<td>FR 230 Intermediate French Conversation</td>
<td></td>
</tr>
<tr>
<td>FR 290 Study Abroad</td>
<td></td>
</tr>
<tr>
<td>At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>20</td>
</tr>
</tbody>
</table>

### Minor Requirements for Spanish

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>To enroll in any 200-level Spanish (SPA) course, students must either complete 8 hours of 100-level Spanish (SPA) courses or complete the equivalent placement test.</td>
<td>8</td>
</tr>
<tr>
<td>No course in which a grade below C has been earned may be counted toward a minor.</td>
<td></td>
</tr>
<tr>
<td><strong>Spanish Courses</strong></td>
<td>12</td>
</tr>
<tr>
<td>Select 12 credit hours from 200-level, 300-level, or 400-level Spanish (SPA)</td>
<td></td>
</tr>
<tr>
<td>SPA 201 Intermediate Spanish I</td>
<td></td>
</tr>
<tr>
<td>SPA 202 Intermediate Spanish II</td>
<td></td>
</tr>
<tr>
<td>SPA 203 Intermediate Spanish Review</td>
<td></td>
</tr>
<tr>
<td>SPA 206 Intermediate Spanish for the Professions</td>
<td></td>
</tr>
<tr>
<td>SPA 210 Conversation and Culture</td>
<td></td>
</tr>
<tr>
<td>SPA 214 Introduction to Translation and Interpretation for the Professions</td>
<td></td>
</tr>
<tr>
<td>SPA 233 Intermediate Spanish Composition and Conversation</td>
<td></td>
</tr>
<tr>
<td>SPA 280 Spanish for Health Professionals</td>
<td></td>
</tr>
<tr>
<td>SPA 290 Study Abroad</td>
<td></td>
</tr>
<tr>
<td>SPA 299 Special Readings in Spanish</td>
<td></td>
</tr>
<tr>
<td>At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>20</td>
</tr>
</tbody>
</table>

### Minor in Spanish for Business

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>SPA 206 Intermediate Spanish for the Professions</td>
<td>3</td>
</tr>
<tr>
<td>SPA 313 Business Spanish</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spanish Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
</tr>
<tr>
<td>SPA 206 Intermediate Spanish for the Professions</td>
<td>3</td>
</tr>
<tr>
<td>SPA 313 Business Spanish</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor Requirements for German

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Language Requirement</strong></td>
<td>8</td>
</tr>
<tr>
<td>To enroll in any 200-level German (GN) course, students must either complete 8 hours of 100-level German (GN) courses or complete the equivalent placement test. No course in which a grade below C has been earned may be counted toward a minor.</td>
<td></td>
</tr>
</tbody>
</table>

**German Courses**

- GN 201 Intermediate German I
- GN 202 Intermediate German II
- GN 203 German Culture and Civilization
- GN 204 Readings in German Literature
- GN 205 German for the Professions
- GN 206 German for Technology and Media
- GN 210 German Culture and Civilization II
- GN 290 Study Abroad

At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

Total Hours: 18

Minor Requirements for Chinese

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Language Requirement</strong></td>
<td>6</td>
</tr>
<tr>
<td>To enroll in any 200-level Chinese (CHI) course, students must either complete 8 hours of 100-level Chinese (CHI) courses or complete the equivalent placement test. No course in which a grade below C has been earned may be counted toward a minor.</td>
<td></td>
</tr>
</tbody>
</table>

**Chinese Courses**

- CHI 201 Independent Study: Intermediate Chinese I
- CHI 202 Independent Study: Intermediate Chinese II
- CHI 203 Intermediate Chinese Language and Culture
- CHI 204 Intermediate Chinese Language and Culture II
- CHI 206 Chinese for the Professions
- CHI 290 Chinese for Study Abroad
- CHI 299 Directed Readings in Chinese

At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

Total Hours: 12

Minor Requirements for Japanese

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Language Requirement</strong></td>
<td>6</td>
</tr>
<tr>
<td>To enroll in any 200-level Japanese (JPA) course, students must either complete 6 hours of 100-level Japanese (JPA) courses or complete the equivalent placement test. No course in which a grade below C has been earned may be counted toward a minor.</td>
<td></td>
</tr>
</tbody>
</table>

**Japanese Courses**

- JPA 201 Intermediate Japanese I
- JPA 202 Intermediate Japanese II
- JPA 203 Intermediate Japanese Language & Culture I
- JPA 204 Intermediate Japanese Language & Culture II
- JPA 290 Japanese for Study Abroad
- JPA 299 Directed Readings in Japanese

At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

Total Hours: 12

Spanish for Specific Purposes

The Department of Foreign Languages and Literatures offers a Spanish for Specific Purposes (SSP) Certificate. The certificate is built upon the existing Spanish program and course offerings with modifications and additions. The courses are designed for traditional as well as non-traditional candidates. The objective of this certificate is not only to fulfill UAB degree candidates’ academic and future needs, but also to reach out to local professionals. The courses are content-, vocabulary-, and culture-based. Students learn the vocabulary, language and cultural background that they will use in their professional field through extensive practice in class and beyond the classroom as well. Upon successful completion of the program, candidates will receive an official UAB Certificate of Completion, which will also be recorded on their transcript.

Candidates who wish to obtain a UAB Spanish for Specific Purposes Certificate must fulfill the following requirements:

1. Have the Spanish prerequisites specific to each SSP class.
2. Enter with and maintain a minimum 2.8 GPA in Spanish courses.
3. Submit an application online following the link provided below and receive formal acceptance to the SSP program.
4. Obtain a B grade or above in all SSP courses.
5. Complete a minimum of 18 credit hours of SSP classes (6 courses) in the UAB Department of Foreign Languages and Literatures, of which a minimum of 12 credits (4 courses) must be at the 300 level (SPA 304, FLL 333, and two other 300 level SPA courses).
6. Complete a successful SSP Service Learning course (FLL 333, 3 credit hours) as part of the 18 credit hour requirement.
7. Upon completion of the program, take the Oral Proficiency Interview by computer (OPIc) in Spanish and earn the performance rank of Intermediate-Mid or above.
8. Have a minimum of 12 credit hours of successful college level work (grade C or above in all courses), with the following distribution
(minimum): at least 6 credit hours in Area 1 (English Composition), at least 3 credit hours in Area 2 (Arts and Humanities), at least 3 credit hours in Area 4 (Social Sciences) (non-degree-seeking candidates only).

For detailed information about the SSPC courses, registration process and procedures, a downloadable registration form and other updates, please visit our web site at http://www.uab.edu/cas/languages/

Honors in Foreign Languages

Purpose
The Foreign Languages Honors Program is designed for qualified, self-motivated foreign languages majors. Through special course distribution and credit hours requirements, as well as a directed honors thesis, students are prepared for in-depth foreign language research and related graduate or professional opportunities.

Eligibility
Acceptance into the Foreign Languages Honors Program requires the student to:

- Be a Foreign Languages major
- Have at least sophomore standing
- Have at least 6 hours at the 300-level in UAB foreign languages courses
- Have at least a 3.25 GPA in UAB foreign languages courses
- Have at least an overall 3.0 GPA
- Have submitted a Formal Application for the Foreign Languages Honors Program to the Department Chair or have been recommended to the program by a member of the department.

Requirements

- Completion of required courses for the Foreign Language major
- Submission of a formal project proposal to DFLL faculty Mentor and DFLL Chair
- Agreement and acceptance by a DFLL faculty Mentor and DFLL Chair of a research project
- Constitution of a former Honors Committee with membership that consists of the DFLL faculty Mentor and two faculty Consultants
- Registration for 3 credit hours of FLL 410
- Public Defense of the research project
- Acceptance of the completed project by the student’s Honors Committee
- Submission of an archival copy of the completed project signed by the Honors Committee to the office of the DFLL

Contact
For more information and/or admission to the Foreign Languages Honors Program, please contact:
Dr. Serge Bokobza, Chair
Department of Foreign Languages and Literatures
HB 407
(205) 934-4652
sbokobza@uab.edu

Department of Government

Chair: Wendy Gunther-Canada, Ph.D.

The Department of Government offers programs of study leading to the Bachelor of Arts degree in political science and the Master of Public Administration degree.

Political science is concerned with the observation and comprehension of government in human society. The curriculum in political science provides selective opportunities to study systematically and critically American government and politics, to compare various national political systems, to investigate conflict and cooperation among nation-states, to explore the historical development of political theory, analyze the organization and management of public affairs, and to master the methods of political research.

The political science major is an appropriate background for careers in law; social science teaching; state, local, and federal government; foreign diplomacy and international affairs; journalism; campaigns and electioneering; non-profit advocacy; and political research.

Major in Political Science

A grade of C or better is required in all Political Science courses. In fulfilling the requirements below, students must have 17 hours at the 300-level or above, 9 of which must be at the 400 level.

Major Requirements for Political Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>PSC 101 Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102 Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 103 Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104 Introduction to Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>PSC 400 Research in Political Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone

Select one course from the following: 3

- PSC 401 Seminar in American Government (capstone)
- PSC 402 Seminar in Comparative Politics
- PSC 403 Seminar in International Relations
- PSC 404 Seminar in Political Theory

Specializations

Select 9 credit hours from one of the groups below: 9

American Government and Political Theory
- PSC 110 Introduction to American Public Policy
- PSC 120 Urban Politics
- PSC 170 Contemporary Political Issues
- PSC 221 American State and Local Government
- PSC 222 Introduction to Public Administration
- PSC 240 Social and Political Philosophy
- PSC 271 Contemporary Political Issues
- PSC 295 Special Topics in Political Science
- PSC 316 Human Rights
- PSC 317 Religion and Politics
- PSC 318 Politics and Race in America
- PSC 320 Political Participation
- PSC 321 Public Opinion in American Politics
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 322</td>
<td>Women and Politics</td>
</tr>
<tr>
<td>PSC 330</td>
<td>The American Judicial Process</td>
</tr>
<tr>
<td>PSC 331</td>
<td>The U.S. Congress</td>
</tr>
<tr>
<td>PSC 332</td>
<td>The American Presidency</td>
</tr>
<tr>
<td>PSC 333</td>
<td>Political Parties and Interest Groups</td>
</tr>
<tr>
<td>PSC 340</td>
<td>American Political Thought</td>
</tr>
<tr>
<td>PSC 341</td>
<td>Classical Political Thought</td>
</tr>
<tr>
<td>PSC 342</td>
<td>Modern Political Theory</td>
</tr>
<tr>
<td>PSC 370</td>
<td>Politics and the Media</td>
</tr>
<tr>
<td>PSC 380</td>
<td>The Politics of Constitutional Law</td>
</tr>
<tr>
<td>PSC 381</td>
<td>The Bill of Rights</td>
</tr>
<tr>
<td>PSC 495</td>
<td>Directed Research in Political Science</td>
</tr>
<tr>
<td>PSC 496</td>
<td>Independent Studies and Special Projects</td>
</tr>
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</table>

**Comparative Politics and International Relations**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 170</td>
<td>Contemporary Political Issues</td>
</tr>
<tr>
<td>PSC 271</td>
<td>Contemporary Political Issues</td>
</tr>
<tr>
<td>PSC 260</td>
<td>American Foreign Policy</td>
</tr>
<tr>
<td>PSC 266</td>
<td>The United Nations</td>
</tr>
<tr>
<td>PSC 272</td>
<td>Model Arab League</td>
</tr>
<tr>
<td>PSC 350</td>
<td>African Politics</td>
</tr>
<tr>
<td>PSC 351</td>
<td>European Political Systems</td>
</tr>
<tr>
<td>PSC 352</td>
<td>Latin/South American Political Systems</td>
</tr>
<tr>
<td>PSC 353</td>
<td>Asian Political Systems</td>
</tr>
<tr>
<td>PSC 355</td>
<td>Politics of Development</td>
</tr>
<tr>
<td>PSC 360</td>
<td>International Security</td>
</tr>
<tr>
<td>PSC 361</td>
<td>North/South International Relations</td>
</tr>
<tr>
<td>PSC 362</td>
<td>Diplomacy</td>
</tr>
<tr>
<td>PSC 363</td>
<td>Nationalism in World Politics</td>
</tr>
<tr>
<td>PSC 382</td>
<td>Political Networks</td>
</tr>
<tr>
<td>PSC 461</td>
<td>International Political Economy</td>
</tr>
<tr>
<td>PSC 465</td>
<td>International Law</td>
</tr>
<tr>
<td>PSC 466</td>
<td>The United Nations</td>
</tr>
</tbody>
</table>

**Political Science Electives**

Select 9 credit hours in Political Science (PSC)

Total Hours: 36

1. Completing PSC 101, PSC 102, and PSC 103 will automatically satisfy nine hours of Core Curriculum Area IV.

2. Students must complete 9 hours of the major classes at the 400 level.

### Additional Requirements

A minor is required for this degree.

Students must take general electives to reach the 120 semester hours requirement.

### Proposed Program of Study for a Major in Political Science

#### Freshman

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSC 101</td>
<td></td>
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</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
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#### Sophomore

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
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</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSC 104</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSC 400</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities</td>
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<td>3</td>
</tr>
</tbody>
</table>

#### Senior

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Science (400 level)</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minor Requirements for Political Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Requirements</strong></td>
</tr>
<tr>
<td>PSC 101 Introduction to American Government</td>
</tr>
<tr>
<td>Introductory Political Science courses</td>
</tr>
<tr>
<td>Select two of the following:</td>
</tr>
<tr>
<td>PSC 102 Introduction to Comparative Politics</td>
</tr>
<tr>
<td>PSC 103 Introduction to International Relations</td>
</tr>
<tr>
<td>PSC 104 Introduction to Political Theory</td>
</tr>
</tbody>
</table>

**Total credit hours: 120-122**

1. Select one course from HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select one fine art from ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3. Select one from EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.

**Minor in Political Science**

A C or better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.
Political Science Electives

Select 9 credit hours from Political Science courses, including two at the 300-level or above.

| Total Hours | 18 |

1. PSC 101 may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.
2. PSC 102 and PSC 103 may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.
3. PSC 221 will count toward this requirement and may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.

Honors Program in Political Science

Purpose

The Political Science Honors Program is designed to provide outstanding political science majors with the opportunity for advanced study of the political process. Honors students have the opportunity to complete an independent research project while working closely with a faculty member. The advanced study provided by the honors program accelerates a student's preparation for graduate or professional training.

Eligibility

Criteria for entering freshmen are:

- A 3.25 high school GPA and ACT composite score of 20 (or equivalent SAT score).
- Declaration of political science as the student’s major.
- A letter of intent.

Criteria for students already enrolled at UAB or transfer students are:

- Completion of nine semester hours of political science.
- A 3.0 cumulative GPA and a 3.25 GPA in political science (and maintenance of these minima).
- Declaration of political science as the student’s major.
- A letter of intent.

OR

- Junior standing.
- Completion of nine semester hours of political science.
- A 3.0 cumulative GPA and a 3.25 GPA in political science courses in the last 30 percent of coursework attempted (and maintenance of these minima).
- Declaration of political science as the student’s major.
- Letter of intent.
- Faculty approval.

Requirements

Students in the Political Science Honors Program are required to do the following:

- Enroll in the Honors Program (replaces the requirement for a specialization).
- Complete one of the following advanced seminars:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 401</td>
<td>3</td>
</tr>
<tr>
<td>PSC 402</td>
<td>3</td>
</tr>
<tr>
<td>PSC 403</td>
<td>3</td>
</tr>
<tr>
<td>PSC 404</td>
<td>3</td>
</tr>
</tbody>
</table>

- Enroll in three semester hours of PSC 497 after completion of the advanced seminar for advanced research in the selected subfield.
- Prepare an advanced research project (after completion of PSC 497), which will lead to the development of a substantial research paper and, in some cases, a senior thesis.
- Present research project findings to a colloquium of other PSC 497 students and department faculty.
- Participate in Pi Sigma Alpha, the national political science honor society.

Benefits

Honors students will benefit from one-on-one mentoring with faculty in the department, which will lead to a more thorough understanding of the field and practice of political science. This is particularly useful as students choose career goals, such as graduate school, law school, public service, the foreign service, or other opportunities. Additionally, students who complete the program will receive a certificate at the annual UAB Honors Convocation and will graduate “With Honors in Political Science.”

Contact

For more information and/or admission to the Political Science Honors Program, contact the Political Science Program Director, 414 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-9680.

Department of History

Chair: Colin Davis

The Department offers the Bachelor of Arts degree and the Master of Arts degree in History. The department also includes the Media Studies program (formerly known as Digital Community Studies Program) which offers a minor.

In its broadest sense, the discipline of history provides the background for all other subjects and disciplines. The classical goal of self-knowledge can be enhanced through the study of history. The analytical study of history provides an understanding of “why we are what we are” and “how we came to be where we are today.” The purpose of historical study is not only an understanding of our own past and present, but an appreciation of the evolution of other cultures, civilizations, and nations.

Students interested in careers in the fields of law, teaching, public service, international affairs, business, journalism, and a variety of other areas involving the social sciences and humanities will find the history major beneficial and rewarding.

The Media Studies Program offers a minor for students interested in opportunities for applied research in local communities through the use of new media technology. The minor provides students a solid grounding in the history, theory and practice of documentary film, film history, oral history, ethnography, community studies, and media theory. Students will gain experience in community-based research, as well as attain proficiency in various new media technologies.
Major Requirements for History

A grade of C or better is required in all History (HY) courses.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History Sequence</td>
<td></td>
</tr>
<tr>
<td>Select four of the following:</td>
<td>12</td>
</tr>
<tr>
<td>HY 101 Western Civilization I</td>
<td></td>
</tr>
<tr>
<td>HY 102 Western Civilization II</td>
<td></td>
</tr>
<tr>
<td>HY 104 World History to 1600</td>
<td></td>
</tr>
<tr>
<td>HY 105 World History 1600 to the Present</td>
<td></td>
</tr>
<tr>
<td>HY 120 The United States To 1877</td>
<td></td>
</tr>
<tr>
<td>HY 121 The United States Since 1877</td>
<td></td>
</tr>
<tr>
<td>Research Courses</td>
<td></td>
</tr>
<tr>
<td>HY 300 The Historian’s Craft</td>
<td>3</td>
</tr>
<tr>
<td>HY 497 History Capstone</td>
<td>3</td>
</tr>
<tr>
<td>History Electives</td>
<td></td>
</tr>
<tr>
<td>Select seven courses in History (HY) not listed above, including at least one at the 400-level</td>
<td>21</td>
</tr>
</tbody>
</table>

Total Hours: 39

1 Completion of this requirement will automatically satisfy Core Curriculum Area IV: History.
2 Students may not take both HY 101 and HY 104 or both HY 102 and HY 105.
3 Students may take no more than a total of 6 semester hours of the following independent studies courses: Directed Readings in History (HY 491/HY 492) or Internship in Public History (HY 482).
4 Students must take 18 semester hours in 300- and 400-level courses at UAB.

Proposed Program of Study for a Major in History

Freshman

First Term

<table>
<thead>
<tr>
<th>Hours</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
</tr>
<tr>
<td>MA 110</td>
<td>3 Core Curriculum Area IV: History</td>
</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td>6</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Sophomore

First Term

<table>
<thead>
<tr>
<th>Hours</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>History Survey</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
</tr>
</tbody>
</table>

Senior

First Term

<table>
<thead>
<tr>
<th>Hours</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 497</td>
<td>3 History (400 level)</td>
</tr>
<tr>
<td>History (400 level)</td>
<td>3</td>
</tr>
<tr>
<td>History (200 level and above)</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>15</td>
</tr>
</tbody>
</table>

Senior

First Term

<table>
<thead>
<tr>
<th>Hours</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
</tbody>
</table>

History Electives

Select six hours from 300-level or above History (HY) courses and three hours any level history.

Total Hours: 18

Minor Requirements for History

A grade of C or better is required in all courses applied to the minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>Introductory History courses</td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
</tr>
<tr>
<td>HY 101</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civilization II</td>
</tr>
<tr>
<td>HY 104</td>
<td>World History to 1600</td>
</tr>
<tr>
<td>HY 105</td>
<td>World History 1600 to the Present</td>
</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>History Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Hours: 18

1 May also apply toward Core Curriculum Area IV.
2 Students may not take both HY 101 and HY 104 or both HY 102 and HY 105.
3 May also apply toward Core Curriculum Area IV.

Note: At least 6 semester hours in history above the 300 level must be taken at UAB. No grade below C may be counted toward the history minor.
Honors Program in History

Purpose
The History Honors Program is designed for outstanding history majors at UAB and allows qualified students to write a Honor's Thesis based on original research. Faculty-led independent research for the senior thesis provides students with experience in applying historical methods and analytical writing techniques. This more advanced study helps prepare undergraduate history majors for graduate work in the field or for postgraduate training in other areas such as law, theology, and medicine. Students who complete the program will graduate “With Honors in History.”

Eligibility
To be eligible for the History Honors Program, students must complete at least 60 semester hours with a minimum 3.0 overall GPA and a minimum 3.5 GPA in history courses. At least 24 semester hours in the history major (including HY 300 Historian's Craft) must be completed prior to acceptance in the Honors Program.

Interested students must apply for the program which includes submitting a prospectus with bibliography. The application must include the signature of a History Department faculty member who has agreed to direct the Honor’s Thesis. If the student is accepted to the program, the student and the thesis director will choose two additional faculty members to make up the student’s thesis committee. The thesis committee will determine whether the student’s completed thesis qualifies for honors.

Requirements
The History Honors Program requires 39 total semester hours in history and maintenance of an overall 3.0 GPA and a 3.5 GPA in history courses through graduation.

Additional requirements include:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select four from the following:</td>
<td>12</td>
</tr>
<tr>
<td>HY 101 Western Civilization I</td>
<td></td>
</tr>
<tr>
<td>HY 102 Western Civilization II</td>
<td></td>
</tr>
<tr>
<td>HY 104 World History to 1600</td>
<td></td>
</tr>
<tr>
<td>HY 105 World History 1600 to the Present</td>
<td></td>
</tr>
<tr>
<td>HY 120 The United States To 1877</td>
<td></td>
</tr>
<tr>
<td>HY 121 The United States Since 1877</td>
<td></td>
</tr>
<tr>
<td>HY 300 The Historian's Craft 1</td>
<td>3</td>
</tr>
<tr>
<td>HY 497 History Capstone 2</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses at the 300 or 400 level 2</td>
<td>6</td>
</tr>
<tr>
<td>Select two courses at the 400 level or above 2</td>
<td>6</td>
</tr>
<tr>
<td>Select two electives 2</td>
<td>6</td>
</tr>
<tr>
<td>HY 401 Honors Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>39</td>
</tr>
</tbody>
</table>

1 The department recommends that this course be taken after completion of the lower-division survey requirement and before taking upper-division courses.
2 These courses may not be transferred from another institution and must be taken at UAB.

Honors students may take one or two graduate seminars in history for undergraduate credit with permission of the Director of the History Undergraduate Program. This credit may not be used for graduate credit.

Contact
For additional information on the History Honors Program, contact the Department of History, Director of History Undergraduate Program or Chair; Telephone (205) 934-5634.

Department of Justice Sciences

Chair: John J. Sloan, III

The Department of Justice Sciences offers programs of study leading to the Bachelor of Science in Criminal Justice (B.S.), the Master of Science in Criminal Justice (M.S.C.J.), a joint Master of Science in Criminal Justice and a Master of Science in Public Administration (M.S.C.J./M.P.A.), the Master of Science in Forensic Science (M.S.F.S.), and the Master of Science in Computer Forensics and Security Management (M.S.C.F.S.M.). The Department also offers undergraduate minors in Legal Affairs through the University’s Pre-Law Program, and a minor in Forensic Psychology offered jointly with the Department of Psychology.

The program leading to the Bachelor of Science in Criminal Justice offers students broad academic exposure to the fields of criminal justice, criminology and law, while providing opportunities for students to concentrate in areas such as computer forensics/cybercrime, corrections, criminology, forensic science, juvenile justice, law, and policing. The primary mission of the program is to educate students by developing in them the knowledge and basic skills necessary to be successful in the field of criminal justice, including:

1. Major theoretical explanations of crime/delinquency.
2. The logic and procedures associated with the research process, including understanding statistical inference and hypothesis testing.
3. The substantive, procedural, and operational aspects of the criminal justice system and its processes.
4. The ethical foundations for the system.

Each of these areas is developed through activities associated with specific courses in the curriculum as well as through an Internship/Capstone experience during the student’s senior year.

Undergraduate students interested in Forensic Science should consult the M.S.F.S. Program Director to learn more about the field. Students interested in the Legal Affairs minor should contact the Pre-Law Program Director. Students interested in either the Forensic Psychology minor or the graduate programs in Computer Forensics should contact the Department Chair.

Graduate Programs

The program leading to the Master of Science in Criminal Justice degree emphasizes the acquisition of theoretical perspectives and research skills to analyze the justice system’s response to criminal behavior. The program leading to the Master of Science in Forensic Science is laboratory based and prepares students for entry-level careers in public and private sector crime laboratories, and offers opportunities for specialization in forensic biology and forensic chemistry. The program
leading to the Master of Science in Computer Forensics and Security Management is a professional master’s program, similar to traditional M.B.A. programs, where students complete a core set of courses and then choose one of two available specializations: computer forensics and cybercrime investigation, or fraud/IT audit. The programs leading to category “A” and “B” Certificates in Computer Forensics combines coursework from multiple disciplines designed to help students familiarize themselves with basic aspects of computer forensics. Consult the respective Program Director, the Department Chair, or the UAB Graduate Catalog for details on these programs.

Pre-Law Program

The Pre-Law Program includes academic offerings such as undergraduate minors in Legal Affairs (Department of Justice Sciences) and Philosophy and Law (Department of Philosophy), experiential learning via internships and participation in the University’s nationally competitive and award winning Mock Trial team, and academic advising that helps students prepare for law school admissions. Consult the Pre-Law Program Director or Department Chair for more information on this program.

Major Requirements for Criminal Justice

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 100 Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>JS 101 Crime and Criminality</td>
<td>3</td>
</tr>
<tr>
<td>JS 220 Police in America: An Overview</td>
<td>3</td>
</tr>
<tr>
<td>JS 220 The Judicial Process in America: An Overview</td>
<td>3</td>
</tr>
<tr>
<td>JS 240 Corrections in America: An Overview</td>
<td>3</td>
</tr>
<tr>
<td>JS 300 Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JS 360 Criminology</td>
<td>3</td>
</tr>
<tr>
<td>JS 410 Criminal Justice Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Internship & Capstone

Select one of the following: 3

- JS 497 Internship and Capstone in Criminal Justice for Practitioners
- JS 498 Distance Internship and Capstone in Criminal Justice
- JS 499 Internship and Capstone in Criminal Justice

Justice Science Electives

Students may choose to complete one of six areas of specialization by completing a minimum of 9 hours in the area OR choose 9 hours of criminal justice electives from any of the criminal justice courses.

Concentrations include:

- Corrections:
  - JS 341 Correctional Institutions
  - JS 342 Probation and Parole
  - JS 343 Community-Based Corrections
  - JS 445 Juvenile Corrections

- Criminology:
  - JS 305 Religion and Crime
  - JS 307 Crime and Everyday Life
  - JS 380 Victimology
  - JS 380 Media, Crime & Justice
  - JS 390 The Death Penalty in America
  - JS 404 Serial Killers
  - JS 408 Juvenile Delinquency
  - JS 424 Serial Killers in Cross-National Settings
  - JS 440 White Collar and Corporate Crime
  - JS 441 Terrorism and Social Control

- Forensic Science:
  - JS 110 Introduction to Forensic Science
  - JS 125 Introduction to Forensic Psychology
  - JS 250 Criminalistics: An Overview
  - JS 350 Advanced Criminalistics
  - JS 351 Forensic Science Lab I
  - JS 352 Forensic Science Laboratory II
  - JS 402 Introduction to Computer Forensics
  - JS 415 Investigating Online Crimes
  - JS 437 Cybercrime and Forensics
  - JS 451 Research Methods in Forensic Science
  - JS 453 Investigation of Fires and Explosions
  - JS 456 Forensic Approaches to Osteology

- Juvenile Justice:
  - JS 408 Juvenile Delinquency
  - JS 411 Juvenile Justice System
  - JS 412 Juvenile Law
  - JS 445 Juvenile Corrections

- Law:
  - JS 115 Comparative Criminal Justice Systems
  - JS 150 Foundations of Law
  - JS 330 Criminal Law
  - JS 331 Criminal Procedure
  - JS 332 Criminal Evidence
  - JS 333 Trial Advocacy
  - JS 335 Mediation
  - JS 338 Intelligence Oversight and Legal Controls
  - JS 340 Terrorism and the Intelligence Community
  - JS 344 Science and Technology in the Intelligence Community
  - JS 403 Restorative Justice
  - JS 413 The Legal Profession
  - JS 434 Mock Trial Competition
  - JS 436 The Intelligence Community
  - JS 444 Law and Society

- Policing:
  - JS 160 Introduction to Private Security
  - JS 320 Police Organization and Administration
  - JS 321 Police-Community Relations
  - JS 322 Legal Aspects of Private Security
  - JS 336 Criminal Investigation: Techniques and Analysis
  - JS 337 Introduction to the Intelligence Community
  - JS 339 Methodologies in Intelligence Analysis
  - JS 402 Introduction to Computer Forensics
  - JS 465 Cold Case Analysis

Statistics Requirement:

Select one of the following: 3

- JS 120 Introduction to Statistics
- MA 180 Introduction to Statistics
- SOC 410 Social Statistics
- PY 214 Elementary Statistical Methods and Design

Total Hours 39
Grade and Residency Requirement

A grade of C or better is required in all Justice Science courses. At least 3 hours must be taken at the 300 level or higher and 9 hours must be taken at the 400 - level or higher JS 300. Students must have a 2.3 cumulative GPA prior to applying for their Internship.

Additional Requirements

Minor

A minor is required for this degree.

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Criminal Justice

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3</td>
<td>JS 100</td>
<td>3</td>
</tr>
<tr>
<td>JS 100</td>
<td>3</td>
<td>Core Curriculum Area II: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: Core Curriculum Area IV</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Freshman Learning Community</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Hours: 15</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 220</td>
<td>3</td>
<td>JS 230</td>
<td>3</td>
</tr>
<tr>
<td>JS 120 (or Equivalent)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Natural Science with Laboratory</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Natural Science with Laboratory</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Hours: 16</td>
<td>16</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 300</td>
<td>3</td>
<td>Justice Science (400 level)</td>
<td>3</td>
</tr>
<tr>
<td>Justice Science (JS) Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JS 360</td>
<td>3</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 410</td>
<td>3</td>
<td>Capstone (Select one): JS 497</td>
<td>3</td>
</tr>
<tr>
<td>Justice Science (300-400 level)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
<td>JS 498</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total credit hours: 120-122

1. Select One: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.
3. Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.

Minor Requirements for Criminal Justice

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 100</td>
<td>3</td>
</tr>
<tr>
<td>JS 101</td>
<td>3</td>
</tr>
<tr>
<td>JS 220</td>
<td>3</td>
</tr>
<tr>
<td>JS 230</td>
<td>3</td>
</tr>
<tr>
<td>JS 240</td>
<td>3</td>
</tr>
<tr>
<td>JS 244</td>
<td>3</td>
</tr>
<tr>
<td>JS 150</td>
<td>3</td>
</tr>
</tbody>
</table>

Justice Science Electives

Select six hours from Justice Sciences (JS) courses, with both courses being at the 300-level or above.

Total Hours: 21

GPA Requirement

A C or better is required in all courses applied to the minor.

Legal Affairs Minor (18 Semester Hours)

The minor in Legal Affairs is designed to help students learn to think both critically and creatively about law, rather than to specifically prepare them for law school. Because the program is interdisciplinary and presents law as the subject of liberal inquiry, students in the program examine law from various perspectives. The minor exposes students to both general and specific aspects of both substantive and procedural law – civil and criminal; helps them understand not only litigation, but alternatives to it; provides students the opportunity to enhance their legal research and writing skills; and facilitates student participation in the Pre-Law program's nationally recognized Mock Trial Team.

Consisting of groups of 1) required courses, 2) core electives, and 3) other electives, the Legal Affairs curriculum is sequential, where elective courses build upon two required courses: JS 150 (Foundations of Law) and JS 230/PSC 330 (Judicial Process). The curriculum is structured in such a way as to insure that a student can complete its requirements in a typical academic year (Fall – Summer). Under no circumstances may a student pursuing the Legal Affairs minor earn dual credit toward his or her major in Criminal Justice and the Legal Affairs minor by completing a course appearing in both curricula. Students are responsible for fulfilling any prerequisites for courses in the curriculum.

The 18 semester hours for the Legal Affairs minor require a final grade of C or better in each course. The Department reserves the right to require additional coursework, prerequisites, or a specific grade point average to complete the program of study for the minor.

Legal Affairs Minor

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 150</td>
<td>3</td>
</tr>
</tbody>
</table>
Forensic Psychology Minor (24 Semester Hours)

Forensic Psychology is the professional practice by psychologists within the areas of clinical psychology, counseling psychology, neuropsychology, and school psychology, when they are engaged regularly as experts and represent themselves as such, in an activity primarily intended to provide professional psychological expertise to the judicial system. Forensic psychologists work with individuals who may present a variety of mental health issues within the context of the civil law (e.g., personal injury suits, civil commitment proceedings, child custody disputes, or workers’ compensation cases) and criminal law (e.g., insanity, competency to stand trial, assessment of future violence potential, or treatment of sex offenders). The minor is co-sponsored by the Department of Justice Sciences and the Department of Psychology and is intended to expose students with an interest in forensic psychology to a broad-based overview of the field. A total of 24 semester hours is required to complete the minor.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 230</td>
<td></td>
</tr>
<tr>
<td>JS 330</td>
<td></td>
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<td>JS 331</td>
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<td>JS 332</td>
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<td>JS 333</td>
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<td>JS 334</td>
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<td>JS 335</td>
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<td>JS 336</td>
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<td>JS 412</td>
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<td>JS 413</td>
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<td>JS 434</td>
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<td>JS 444</td>
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<tr>
<td>JSC 261</td>
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<tr>
<td>JSC 270</td>
<td></td>
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<tr>
<td>JSC 430</td>
<td></td>
</tr>
</tbody>
</table>

**Core Electives**

Select three of the following courses: 9

- JS 330
- Criminal Law
- JS 331
- Criminal Procedure
- JS 332
- Criminal Evidence
- JS 333
- Trial Advocacy
- JS 334
- Legal Research and Writing
- JS 335
- Mediation
- JS 336
- Criminal Investigation: Techniques and Analysis
- JS 412
- Juvenile Law
- JS 413
- The Legal Profession
- JS 434
- Mock Trial Competition
- JS 444
- Law and Society
- JSC 261
- Law and Society
- JSC 270
- Law and Film
- JSC 430
- American Constitutional Law

**Additional Electives**

Select one of the following: 3

- LS 246 Legal Environment of Business
- LS 457 Business Law for Accountants
- LS 471 Legal Elements of Fraud Investigation
- PHL 135 The Rule of Law
- PHL 335 Philosophy of Law
- PY 125 Introduction to Forensic Psychology
- PY 376 Psychology and Law

**Total Hours** 18

A grade of “C” or better is required for all courses.

Transfer Students must earn at least 9 hours of PY or JS credit at UAB, 6 hours of which must be at the 300 level or higher. Students may have to satisfy prerequisites before taking some of the courses.

Students who major or minor in Criminal Justice or Psychology or who minor in Legal Affairs, cannot earn dual credit toward fulfilling the requirements for those majors or minors by taking courses in the Forensic Psychology minor. The Department of Justice Sciences and the Department of Psychology each reserves the right to require a specific grade point average as an additional prerequisite for students enrolling in courses at the 300 level or higher.

**Honors Program in Criminal Justice**

**Purpose**

The Criminal Justice Honors Program encourages and prepares outstanding students to pursue a career in the field of Criminology/Criminal Justice by providing an opportunity to conduct research under the guidance of a faculty mentor. The program promotes initiative, creativity, and independent thinking among academically talented students.

**Eligibility**

Students are admitted to the Honors Program based on an evaluation conducted by the Honors Program Coordinator and a committee of faculty members. Students seeking admission to the Honors Program must:

- Be a second semester junior (students are admitted to the Honors Program during the summer preceding their senior year).
- Have completed all required courses for the criminal justice major by the time they enter the program.
- Have a cumulative GPA of 3.25 or higher and a GPA of 3.25 or higher in all Justice Sciences courses attempted.
- Complete and submit an application for admission to the Honors Program Coordinator;
- Schedule and complete an interview with the Honors Program Coordinator.

**Requirements**

Requirements for the Honors Program include completing the remainder of the students’ elective courses for the Criminal Justice major.
completing (with a grade of “B” or better), JS 481 Honors Research (Fall semester) and JS 482 Honors Research and Colloquium (Spring semester); completing the Honors Research Project and presenting the results of the project at either the Department’s Honor’s Research Colloquium or at professional conference, such as the Annual Meetings of the Southern Criminal Justice Association.

Benefits
Participation in the Criminal Justice Honors Program provides opportunities for academically talented students to have unique access to faculty and to interact with other honors students in an environment that encourages creative and innovative thinking. Beyond the fact seminar participation and research experience will be useful for further work in the field of Criminology/Criminal Justice; completion of the honors program is advantageous when applying to graduate programs in the field. Students who complete the program will graduate from UAB “With Honors in Criminal Justice.”

Contact
For additional information on the Justice Sciences Honors Program, please contact

Dr. Kent R. Kerley
Department of Justice Sciences
1201 University Blvd.
Suite 210
Birmingham AL 35294-4562
Telephone (205) 934-2069
E-mail: krkerley@uab.edu

Department of Mathematics

Chair: Rudi Weikard
Associate Chair: John C. Mayer

The Department of Mathematics offers courses in pure and applied mathematics and a major and minor in mathematics leading to employment in education, government, business, and industry. In addition, mathematics courses are offered to support programs in the physical, social, biological, and health sciences and in engineering, business, and education. Students considering a major or minor in mathematics should consult the undergraduate advisor, Dr. Hutchison, at (205) 934-2154 to arrange for counseling on career and academic objectives and program planning.

The Department of Mathematics Web site (http://www.uab.edu/mathematics/) summarizes information about the Departmental programs.

For the major there are four distinct B.S. degree tracks in mathematics:

1. Mathematics (traditional track)
2. Mathematics with Honors
3. Applied Mathematics and Scientific Computation
4. Mathematical Reasoning

Mathematics Fast-Track Program
The Department of Mathematics has an accelerated program for qualified students. Through this Fast-Track option, a mathematics major can earn a BS degree and an MS degree in mathematics in four to five years (depending upon whether summer terms are included). As another option, students can pursue a BS in mathematics and an MS in biostatistics by choosing the biostatistics track at the end of the third year. Each individual Fast-Track student works with a mentor from the graduate faculty on a mathematics research project during every term. Fast-Track students will usually begin taking graduate mathematics courses after the third year, and are automatically admitted to the graduate program in the fourth year, if performing satisfactorily. Students who complete this program will be prepared for continued graduate work in mathematics and the sciences, or for careers in industry. Fast-Track scholarships are available. For more information, contact the Honors Program Director, Dr. Oversteegen, at (205) 934-2154.

Course Numbering System
Mathematics course numbers indicate both the level and area of the course. The first digit (0, 1, 2, 3, or 4) indicates developmental (no degree credit), freshman, sophomore, junior, or senior level, respectively. The second and third digits indicate area, according to this scheme:

- Pre-calculus
- History of mathematics and mathematical reasoning
- Logic and foundations
- Algebra
- Analysis
- Differential equations
- Applications-oriented courses
- Geometry and topology
- Probability and statistics
- Special topics, seminars, and independent research

For example, MA 454 Intermediate Differential Equations is an advanced level differential equations course. Calculus courses (MA 125, MA 126, and MA 227) are exceptions to the area numbering scheme.

Graduate Programs
The Department of Mathematics offers graduate study leading to the degrees of Master of Science in mathematics (thesis or non-thesis option) and Doctor of Philosophy in applied mathematics. Further information may be obtained from the Graduate Program Director, or the UAB Graduate School Catalog.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Major in Mathematics (p. 161)
Major in Mathematics with an Applied Mathematics and Scientific Computation Track (p. 162)
Major in Mathematics with a Mathematical Reasoning Track (p. 163)

Major Requirements for Mathematics

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics Courses</td>
<td>39</td>
</tr>
<tr>
<td>Thirty-nine semester hours with twenty-four at the 300 level or above</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>
MA 125 Calculus I 4
MA 126 Calculus II 4
MA 227 Calculus III 4
MA 252 Introduction to Differential Equations 3
MA 434 Algebra I: Linear 3
MA 440 Advanced Calculus I 3
MA 441 Advanced Calculus II 3
Select one of the following: 3
MA 360 Scientific Programming
MA 361 Mathematical Modeling
MA 461 Modeling with Partial Differential Equations
MA 468 Numerical Analysis

Mathematics Electives  6-9
Two or three electives selected from courses numbered 300 or above, each of which must have a calculus (MA 125) prerequisite. MA 411 does not count toward the major.

Advanced Mathematics Sequence  3-6
Choose one of the following sequences:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 434</td>
<td>Algebra I: Linear</td>
</tr>
<tr>
<td>&amp; MA 435</td>
<td>Algebra II: Modern</td>
</tr>
<tr>
<td>MA 454</td>
<td>Intermediate Differential Equations</td>
</tr>
<tr>
<td>&amp; MA 455</td>
<td>Partial Differential Equations I</td>
</tr>
<tr>
<td>MA 455</td>
<td>Partial Differential Equations I</td>
</tr>
<tr>
<td>&amp; MA 461</td>
<td>Modeling with Partial Differential Equations</td>
</tr>
<tr>
<td>MA 463</td>
<td>Operations Research I</td>
</tr>
<tr>
<td>&amp; MA 464</td>
<td>Operations Research II</td>
</tr>
<tr>
<td>MA 470</td>
<td>Differential Geometry I</td>
</tr>
<tr>
<td>&amp; MA 471</td>
<td>Differential Geometry II</td>
</tr>
<tr>
<td>MA 474</td>
<td>Introduction to Topology I</td>
</tr>
<tr>
<td>&amp; MA 475</td>
<td>Introduction to Topology II</td>
</tr>
<tr>
<td>MA 485</td>
<td>Probability</td>
</tr>
<tr>
<td>&amp; MA 486</td>
<td>Mathematical Statistics</td>
</tr>
<tr>
<td>MA 485</td>
<td>Probability</td>
</tr>
<tr>
<td>&amp; MA 587</td>
<td>Advanced Probability</td>
</tr>
</tbody>
</table>

Total Hours 36-42

1 Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement. MA 126, MA 252 and MA 361 are all qualitative literacy (QL) and writing (W) courses satisfying the QEP requirements of the core. In addition, MA 125 is a QL course. UAB requires that all students complete a capstone requirement. For this track the capstone requirement is MA 441.

2 Three electives are required if MA 434/MA 435 is chosen as the advanced sequence.

Additional Requirements

- At least one of the following courses must be completed. Each is an ethics and civic responsibility (ECR) course satisfying a QEP requirement of the Core Curriculum.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 101 Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HY 102 Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HY 105 World History 1600 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HY 120 The United States To 1877</td>
<td>3</td>
</tr>
<tr>
<td>HY 121 The United States Since 1877</td>
<td>3</td>
</tr>
</tbody>
</table>

Grade Requirement

A grade of C or better is required in each course counted toward the major.

Minor

- A minor is required for this degree.

General Electives

Students must take general electives to reach the 120 semester hour requirement

Applied Mathematics and Scientific Computation Track

This track aims to provide graduates with the mathematical and computational skills needed to develop and maintain mathematical models from the Sciences, Engineering, Medicine and the Biosciences, Business, and elsewhere.

A mathematical model is a rendering of some real-world system into the language of mathematics, usually taking the form of a single partial differential equation, or a system of such equations. The development of effective mathematical models is a fundamental need of our society, based as it is upon science and technology, and these models act as the indispensable link between us humans and the multitude of machines that we use to manage and investigate our world.

Major Requirements for Mathematics in the Applied Mathematics and Scientific Computation Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics Courses</td>
<td>39 semester hours with 21 hours at the 300 level or above</td>
</tr>
<tr>
<td>MA 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MA 227</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MA 252</td>
<td>Introduction to Differential Equations</td>
</tr>
<tr>
<td>MA 360</td>
<td>Scientific Programming</td>
</tr>
<tr>
<td>MA 260</td>
<td>Introduction to Linear Algebra</td>
</tr>
<tr>
<td>or MA 434</td>
<td>Algebra I: Linear</td>
</tr>
<tr>
<td>MA 455</td>
<td>Partial Differential Equations I</td>
</tr>
<tr>
<td>or MA 461</td>
<td>Modeling with Partial Differential Equations</td>
</tr>
<tr>
<td>or MA 486</td>
<td>Mathematical Statistics</td>
</tr>
</tbody>
</table>

Mathematics Electives 6
Two additional electives selected from courses numbered 300 or above, and from areas 30-99 of the course numbering system for mathematics

<table>
<thead>
<tr>
<th>Mathematics Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 444</td>
<td>Vector Analysis</td>
</tr>
<tr>
<td>MA 445</td>
<td>Complex Analysis</td>
</tr>
<tr>
<td>MA 454</td>
<td>Intermediate Differential Equations</td>
</tr>
<tr>
<td>MA 455</td>
<td>Partial Differential Equations I</td>
</tr>
<tr>
<td>MA 461</td>
<td>Modeling with Partial Differential Equations</td>
</tr>
<tr>
<td>MA 462</td>
<td>Intro to Stochastic Differential Equations</td>
</tr>
<tr>
<td>MA 463</td>
<td>Operations Research I</td>
</tr>
<tr>
<td>MA 464</td>
<td>Operations Research II</td>
</tr>
</tbody>
</table>
Additional Requirements

• At least one of the following courses must be completed. Each is an ethics and civic responsibility (ECR) course satisfying a QEP requirement of the Core Curriculum.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 101</td>
<td>3</td>
</tr>
<tr>
<td>HY 102</td>
<td>3</td>
</tr>
<tr>
<td>HY 105</td>
<td>3</td>
</tr>
<tr>
<td>HY 120</td>
<td>3</td>
</tr>
<tr>
<td>HY 121</td>
<td>3</td>
</tr>
</tbody>
</table>

Grade Requirement

A grade of C or better is required in each course counted toward the major.

Minor

• A minor in the sciences, business, or engineering is required for this degree.

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Mathematical Reasoning Track

The Mathematical Reasoning Track is designed to develop a deeper level of understanding of mathematical thinking, including a deepening knowledge of important mathematical ideas, understanding the role of inquiry and reflection in learning mathematics, understanding the role of cultivating a productive disposition in tackling mathematical problems, and developing the ability to communicate mathematics to audiences at different levels. In particular, this track is appropriate for students interested in pursuing certification in mathematics at the middle school level.

Major Requirements for Mathematics in the Mathematical Reasoning Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics Courses</td>
<td>4</td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Select two courses from the following four:</td>
<td>6-8</td>
</tr>
<tr>
<td>MA 106 Pre-Calculus Trigonometry</td>
<td></td>
</tr>
<tr>
<td>or MA 107 Precalculus Algebra and Trigonometry</td>
<td></td>
</tr>
</tbody>
</table>

Proposed Program of Study for a Major in Mathematics with a Traditional Track

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4</td>
<td>MA 126</td>
<td>4</td>
</tr>
</tbody>
</table>

1 Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement. MA 126 and MA 252 are quantitative literacy (QL) and writing (W) courses satisfying the QEP requirements of the Core Curriculum. In addition, MA 125 is a QL course. UAB requires that all students must complete a capstone requirement. For this track the capstone requirement is one of MA 455, MA 461, and MA 486.

Additional Requirements

• At least one of the following courses must be completed. Each is an ethics and civic responsibility (ECR) course satisfying a QEP requirement of the Core Curriculum.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 101</td>
<td>3</td>
</tr>
<tr>
<td>HY 102</td>
<td>3</td>
</tr>
<tr>
<td>HY 105</td>
<td>3</td>
</tr>
<tr>
<td>HY 120</td>
<td>3</td>
</tr>
<tr>
<td>HY 121</td>
<td>3</td>
</tr>
</tbody>
</table>

Grade Requirements

A grade of C or better is required in each course counted toward the major. Requirements are 34-36 semester hours in mathematics with 24 at the upper level (courses numbered 300 and above). Nine hours must be taken at the 400 level.

Minor

• A minor is required for this degree.

General Electives

Students must take general electives to reach the 120 semester hour requirement.
### Proposed Program of Study for a Major in Mathematics with a Mathematical Reasoning Track

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>3</td>
<td>MA 126</td>
<td>4</td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>HY 101</td>
<td>3</td>
<td>HY 102</td>
<td>3</td>
</tr>
<tr>
<td>ARH 101</td>
<td>3</td>
<td>CS 201</td>
<td>4</td>
</tr>
<tr>
<td>CS 101</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>16</td>
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</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 227</td>
<td>3</td>
<td>MA 252</td>
<td>3</td>
</tr>
<tr>
<td>EH 216</td>
<td>3</td>
<td>MA 361</td>
<td>3</td>
</tr>
<tr>
<td>MA 360</td>
<td>3</td>
<td>PH 222</td>
<td>4</td>
</tr>
<tr>
<td>CS 302</td>
<td>4</td>
<td>CS 250</td>
<td>3</td>
</tr>
<tr>
<td>PH 221</td>
<td>4</td>
<td>General Elective</td>
<td>3</td>
</tr>
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<td></td>
<td>16</td>
<td></td>
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</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 311</td>
<td>3</td>
<td></td>
<td></td>
</tr>
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<td></td>
<td>15</td>
<td></td>
<td></td>
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</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 361</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total credit hours: 120

### Minor Requirements for Mathematics

#### Required Mathematics Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
</tr>
</tbody>
</table>

Total credit hours: 120
MA 227 Calculus III 4

Mathematics Electives
Select nine hours from Mathematics courses numbered 200 or above. 2

Total Hours 21

1 MA 125 Calculus I may also satisfy the Core Curriculum Area III: Math requirement; check the Core Curriculum for your particular major.

2 At least 6 semester hours of which must have a calculus (MA 125) prerequisite. (MA 260 Introduction to Linear Algebra and MA 434 Algebra I: Linear cannot both be counted.) MA 411 does not count toward the minor.

GPA & Residency Requirement
A minimum grade of C is required in all courses applied to the minor. A minimum of six semester hours with a calculus (MA 125) prerequisite must be completed at UAB.

Honors Program
The Mathematics Honors Program is designed for advanced, motivated students. Through a mentored research program format and seminars, research and communication skills are developed in preparation for a graduate or professional career.

The Mathematics Honors Program fosters a spirit of inquiry, independence, and initiative along with providing an overview of the relationships among the branches of mathematics studied. The student will have an early opportunity to tackle a mathematical research project while interacting one-on-one with faculty members in a research setting. The mentoring, the approved seminars, and the oral presentation or poster should all contribute to the student’s development. Upon completion of the program, the student will graduate “With Honors in Mathematics.”

Acceptance into the Mathematics Honors Program requires the student:

• to be a mathematics major in the traditional track;
• to have earned a 3.5 GPA in mathematics courses attempted;
• to have earned a 3.0 GPA overall;
• to have arranged with one or more faculty mentors to work on undergraduate research projects for six semester hours distributed over two or more terms; and
• to have filled out and submitted the Mathematics Honors Program application form to the Undergraduate Program Director.

Major requirements for the Mathematics Honors Program:

• to be a mathematics major in the traditional track;
• to complete an additional 9 hours of approved seminar (3 hours) and research (6 hours);
• to have earned a 3.5 GPA in mathematics courses and a 3.0 GPA overall; and
• to present an oral or poster presentation on mathematics in an academic setting.

Suggested Curriculum for the Honors Program

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4 MA 126</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HY 101</td>
<td>3 HY 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARH 101</td>
<td>3 EC 210</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FYE/FLC Course</td>
<td>2 PHL 115</td>
<td>may vary</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 227</td>
<td>4 MA 252</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 298</td>
<td>1 MA 361</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 434</td>
<td>3 MA 298</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EH 216</td>
<td>3 PH 221</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EC 210</td>
<td>3 EC 211</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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Senior

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</table>

Total credit hours: 120

Department of Music

Chair: Howard Irving

The Department of Music offers the Bachelor of Arts degree with a major in Music. Optional concentrations in Music Education (including teacher certification) and Music Technology are also available in the Bachelor of Arts degree program. Students majoring in other fields may complete a minor in Music or Music Technology and may take music courses as electives. The Department of Music is accredited by the National Association of Schools of Music.

The Department of Music offers instruction at a variety of levels to provide a balanced musical education for a broad spectrum of students. Areas of instruction include music theory and composition, music history and literature, music performance, music education, and music technology. Courses in music theory explore the materials and techniques employed in music composition. History and literature courses present the evolution of musical styles in the context of our cultural heritage and identify
certain works that represent the highest levels of artistic achievement. Performance activities develop individual musical skills through personal creative involvement. Music Education prepares students to teach music at the nursery through high school level. Music Technology explores current developments in computers and their applications to and impact on the creation, presentation, and recording of music. Full updated information is available on the Department of Music web site at www.uab.edu/cas/music.

Music Ensembles
Students of all majors are invited to participate in a variety of musical ensembles: Blazer Band, Brass Ensembles, Chamber Singers, Computer Music Ensemble, Concert Choir, Gospel Choir, Guitar Ensemble, Jazz Combo, Jazz Ensemble, Marching Band, Opera Workshop, Orchestra, Percussion Ensemble, Steel Drum Band, Electro-Acoustic Percussion Group, Piano Ensemble, Symphony Band, Wind Symphony, Woodwind Ensembles. Other ensembles may become available depending on student interest and available resources.

Music Scholarships
The Myrtle Jones-Steele and James Darrell McAnnally Scholarships (piano), the Aly's Robinson Stephens Scholarship (any instrument or voice) are awarded each year to qualified music majors. Choral, Opera, Wind Symphony, and Marching Band Scholarships are also competitively based and are awarded to any full-time student enrolled in the university for participation in those ensembles. The Music Technology and Stevie Wonder Scholarships are awarded to students in the Music Technology program. Auditions are scheduled throughout the year for award for the next academic year. For an application or further information about music scholarships or any of the programs and activities described above, call the Department office, (205) 934-7376, or visit the departmental web page: http://www.uab.edu/cas/music/admissions.

Admittance for Music Majors
Students who wish to pursue a degree in music must first apply for admission to the UAB Office of Undergraduate Admissions. In addition, students must complete an audition before members of the music faculty for admission to the Department of Music. Auditions are scheduled throughout the year. Examinations may also be required to determine the appropriate placement of students within the curriculum. Students should contact the music office at (205) 934-7376 or email uabmusic@uab.edu (%20uabmusic@uab.edu) for specific audition requirements and to schedule a date on which they may complete this requirement. Once the audition is complete, students will be informed of one of three outcomes:

1. Admission to the Department is granted and they may enroll as a music major.
2. Admission to the Department is conditional, in which case they are admitted to a Liberal Arts major with the attribute "Music Interest." Students admitted into this preliminary program have one year to gain full admission as a music major.
3. Admission to the Department is denied.

In the case of number 2 above, students must re-audition in order to gain full admission as a music major. In the event they are not accepted, they will be advised to seek another major within the University. Once fully or conditionally admitted to the Department of Music, students will work closely with a music faculty adviser and an academic adviser within the College of Arts and Sciences, who will monitor their progress and advise in the selection of appropriate courses. All students must audition during the term preceding the expected entrance date. Admission to UAB does not guarantee admission to the Department of Music.

Piano Proficiency
All Music Majors must demonstrate basic proficiency at the piano keyboard prior to graduation. Students who are not able to pass the Piano Proficiency Examination upon entering the music degree program must enroll in Class Piano (MUP 124) until they are able to do so. Up to three semester hours of credit earned in Class Piano may be counted toward electives.

Piano Proficiency Examination Requirements

Purpose
To demonstrate functional keyboard skills at a level appropriate for students majoring in Music, Music Technology, or Music Education.

Procedure
All Music, Music Technology, and Music Education majors must pass the Piano Proficiency Examination prior to graduation. Students with considerable experience in piano may be allowed to take the examination during their first term without enrolling for Class Piano. In the event they are not successful, they must enroll in Class Piano until the proficiency exam has been passed. All other students must enroll in Class Piano and continue enrollment until the exam has been passed. Under no circumstances should the proficiency exam be taken later than the end of the junior year. Proficiency examinations will be scheduled during examination week of each semester. The instructor of MUP 125 and two other faculty members will administer the exam. Students wishing to take the proficiency exam must contact the instructor at least one week before the last day of classes to schedule a time and place for the exam. The exam will be approximately fifteen minutes in duration and will cover examples from the areas listed below. The examination may be attempted once each semester until it is passed. Music Education majors cannot enter the TEP (Teacher Education Program) without first completing this requirement.

Requirements
The student is expected to demonstrate proficiencies in the areas of sight reading, performance, technique, and related functional skills including transposing and improvising simple accompaniments.

- Sight-reading of song arrangements and/or simple solo piano literature such as a selected example from Chapter 5, pages 195-219 in Progressive Class Piano by Elmer Heerema.
- Performance:
  - A solo selected from the following list or from repertoire of comparable difficulty (memorization optional).
    - J.S. Bach – Little Preludes
    - Clementi - Sonatinas
    - Schumann - Album for the Young
  - Two patriotic songs: America and The Star-Spangled Banner. Music may be used.
- Technique:
  - All major and harmonic minor scales: Two octaves in parallel motion, hands together.
  - All major and minor arpeggios: Two octaves, hands together.
- Functional Skills:

• Functional Skills:
  - All major and minor arpeggios: Two octaves, hands together.
Performance Attendance Requirement

All Music majors are expected to attend Music Department concerts and programs. To satisfy the Department’s performance attendance requirement, all music majors must enroll in and successfully complete MUP 001 Performance Attendance every term of enrollment, except during the term of the capstone experience (seven terms). A grade of P (pass) or NP (not pass) will be assigned accordingly for a student’s attendance at concerts, Music Convocation, Department-sponsored lectures, and other events approved previously by the Department. For more specific information concerning the Performance Attendance requirement, students are urged to consult the Department of Music’s Student Handbook.

Clarification for students that enter the UAB Department of Music as freshmen:

• Once you have passed Performance Attendance for a total of seven terms, your PA requirement is complete.
• You are not required to register for PA during your capstone semester.
• You are only required to register for PA during the fall and spring semesters; summer registration is not required. Summers may be used to “make up” a term if needed, but it should be noted that successful completion during summer terms is much more difficult.

Clarification for transfer students and students who change major to Music:

• If you enter UAB with no Performance Attendance credits from another approved institution, you must enroll for and successfully complete PA every semester (fall and spring) you are a Music major at UAB. For example, if you are a UAB Music major for five semesters (including your capstone semester), you must pass PA four terms.
• If you enter the UAB Department of Music with one or more credits in Performance Attendance from another approved institution, you must still pass PA for each semester (fall and spring) you are a Music major at UAB, except for the capstone semester.
• You are not required to register for PA during your capstone semester.

Ensemble Participation Requirement

Students in the B.A. degree program in Music are required to participate for credit in at least one music ensemble per term for a minimum of seven terms. To fulfill the participation requirement, instrumental students must enroll in an instrumental ensemble, and vocal/choral students must enroll in a vocal/choral ensemble. At least six of the seven terms of the required ensemble participation must include involvement in one of the following major ensembles: Concert Choir, Marching Band, Wind Symphony, Symphony Band, and Orchestra. Other ensembles may be considered major ensembles, but only for students whose major instrument is listed here: Jazz Ensemble (Guitar and Piano), Guitar Ensemble (Guitar), and Piano Ensemble (Piano). All other ensembles are considered minor ensembles. Credit earned in excess of the seven semester hour minimum requirement stated above may be applied toward electives. Students in the Music Technology program may fulfill up to four of their required ensemble hours in Computer Music Ensemble. The remaining three hours must be in the major ensembles named above.

Clarification for students that enter the UAB Department of Music as freshmen:

• Once you have earned credit in ensembles as stated above for a total of seven terms, your ensemble participation requirement is complete.
• You are not required to register for an ensemble during your capstone semester.

Clarification for transfer students and students who change major to Music:

• If you enter UAB with no ensemble credits from another approved institution, you must participate for credit every semester (fall and spring) you are a Music major at UAB, except for the capstone semester.
• If you enter the UAB Department of Music with one or more ensemble credits from another approved institution, you must still participate for credit in an appropriate ensemble for each semester (fall and spring) you are a Music major at UAB, except for the capstone semester.
• You are not required to register for an ensemble during your capstone semester.

Music Capstones

UAB policy states: “Freshman students entering UAB in fall 2009 or after, must successfully complete the capstone course or experience required by their major program or school in order to graduate. All students graduating in 2013 or later must complete a capstone requirement.” This UAB policy is fulfilled by the Music Education and Music Technology internships for music majors with those concentrations. All other Music majors should complete MUP 497, Senior Recital/Project, during their last semester.

Teacher Certification

Students who wish to prepare for careers as music teachers in schools at the pre-college level will need to complete the requirements for the professional teaching certificate issued by the Alabama Department of Education. These requirements are met by completing the curriculum for the Bachelor of Arts in Music Education degree. Because the Alabama State Board of Education frequently changes or adds teacher certification requirements, it is essential that students stay informed about current certification requirements. Therefore, Music Education majors are required to meet with their Music adviser and an adviser in the School of Education before registration each semester.

The University of Alabama at Birmingham
Minor in Music or Music Technology

The minor consists of 26 semester hours of coursework in music. Students who minor in Music or Music Technology should have some prior musical experience and must audition on their performing instrument. Music courses in which a grade below C is earned may not be counted toward the minor. Minors are encouraged to participate in music ensembles throughout their academic program. Students should contact the music office at (205) 934-7376 or email uabmusic@uab.edu for specific audition requirements and to schedule an audition.

Transfer Students

A student may not apply more hours of transfer credit toward any requirement for a major or minor in music than are awarded for the equivalent courses at UAB. Excess hours in any required area may be applied as electives. Music majors must complete at least nine semester hours in music at UAB. Minors must complete at least six semester hours in music at UAB. See the section of the catalog titled “Completion of a Degree” for additional residency requirements.

The stated requirements for majors and minors in music are intended to assure a balanced academic program. In evaluating transfer credits, therefore, course content as well as the number of credits in particular areas must be considered in order to determine whether courses taken at other colleges satisfy UAB requirements. To be considered equivalent to Music Theory I–IV and Aural Skills I–IV, courses taken at another college must have included “aural skills.” If a separate “theory laboratory” was taken, both the laboratory and the related music theory course must have been satisfactorily completed. Transfer students will be required to demonstrate by examinations, auditions, and other means that their current knowledge and skills meet expected standards. Auditions will be required to determine placement in applied music courses and conducting. Transfer students majoring in music will be required to pass the UAB Piano Proficiency Examination unless written verification is provided from the appropriate official at the former college which shows that they have passed an equivalent examination at that institution.

Music majors who transfer to UAB and students who change their major from another field to music may either:

1. Complete the normal ensemble participation requirement for their degree program.
2. Participate in an ensemble during each term they are enrolled as a music major at UAB, with no fewer than three terms of participation in UAB ensembles.

In either case, the semester hour ensemble requirement must be met by transfer and/or UAB credit. Students must be officially enrolled in an ensemble in order to fulfill the participation requirement.

Music majors who transfer to UAB and students who change their major from another field to music may either:

1. Complete the normal performance attendance requirement.
2. Enroll in and successfully complete MUP 001 Performance Attendance during each term they are enrolled as a music major at UAB, with no fewer than three terms.

Courses transferred from a two-year college cannot be used to satisfy requirements for work at advanced levels (courses numbered 300 or higher). No more than 60 semester hours may be transferred from a two-year college.

Scheduling of Courses

Certain music courses are offered one time each year or once every two years, according to a Department plan. A copy of this plan may be obtained from the Department of Music. Several courses are offered irregularly, according to need.

Academic Advising

Each music major is assigned a Departmental academic adviser. The student MUST meet with his/her adviser before registering for classes each semester. Music Education majors must also meet with an academic adviser in the School of Education each semester.

Major in Music (p. 168)

Major in Music with a Music Technology Concentration (p. 171)

Major in Music with a Music Education Concentration (Instrumental) (p. 172)

Major in Music with a Music Education Concentration (Vocal) (p. 174)

Major Requirements For Music

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<td>MU 448 Orchestration</td>
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<td>MU 451 Topics in Music Theory</td>
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<td>MU 455 Analysis of Musical Structure</td>
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<td>MU 458 Contemporary Techniques</td>
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<td>MU 459 Composition II</td>
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<td>MU 211</td>
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<td>MU 235</td>
<td>English and Italian Diction</td>
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<td>French and German Diction</td>
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<td>Introduction to Music Literature</td>
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<td>The Evolution of Jazz</td>
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<td>Jazz Combo</td>
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<td>Symphony Band</td>
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<td>MUP 495</td>
<td>Private Lessons: Guitar</td>
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</tbody>
</table>

**Music History and Literature Electives**

Select one of the following courses: 3

- MU 261  Introduction to Music Literature
- MU 364  American Music
- MU 365  The Evolution of Jazz
- MU 461  Seminar in Music Literature

**Conducting**

MU 329  Conducting I  2

**Music Ensemble**  7

- Major Ensembles: Take at least 6 hours
  - MUP 220  Concert Choir
  - MUP 225  Symphony Band
  - MUP 230  Guitar Ensemble
  - MUP 231  Orchestra
  - MUP 232  Marching Band
  - MUP 235  Wind Symphony
  - MUP 236  Jazz Ensemble
  - MUP 353  Piano Ensemble
- Minor Ensembles
  - MUP 110  Gospel Choir
  - MUP 221  Jazz Combo
  - MUP 234  Percussion Ensemble
  - MUP 237  Blazer Band
  - MUP 320  Chamber Singers
  - MUP 321  Women's Chorale
  - MUP 341  Computer Music Ensemble
  - MUP 420  Opera Workshop

**Applied Music**

Select six hours from the following courses designated “Private Lessons” at the 200 level or higher (each course may be repeated for credit.) 6

- MUP 240  Private Lessons: Voice
- MUP 250  Private Lessons: Piano
- MUP 253  Private Lessons: Jazz Piano
- MUP 261  Private Lessons: Flute
- MUP 262  Private Lessons: Oboe
- MUP 263  Private Lessons: Clarinet
- MUP 264  Private Lessons: Saxophone
- MUP 266  Private Lessons: Bassoon
- MUP 267  Private Lessons: Jazz Saxophone
- MUP 271  Private Lessons: Trumpet
- MUP 272  Private Lessons: French Horn
- MUP 273  Private Lessons: Trombone
- MUP 274  Private Lessons Euphonium
- MUP 275  Private Lessons: Tuba
- MUP 276  Private Lessons: Jazz Trombone
- MUP 280  Private Lessons: Percussion

1 Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of “C” or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.
Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, "Major Ensembles" and "Minor Ensembles." Music majors must complete at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble.

### Major Requirements for Music with a Concentration in Music Technology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td><strong>Freshman Year Experience Requirement</strong></td>
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<td>CAS 112 Success in College</td>
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<td><strong>Music Theory and Aural Skills</strong></td>
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<td>MU 221 Music Theory I</td>
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<td>MU 224 Aural Skills I</td>
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<td>MU 222 Music Theory II</td>
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<td>MU 225 Aural Skills II</td>
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<tr>
<td>MU 321 Music Theory III</td>
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<td>MU 324 Aural Skills III</td>
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<td>MU 322 Music Theory IV</td>
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<td>MU 325 Aural Skills IV</td>
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<td>Select three hours from the following courses:</td>
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<tr>
<td>MU 359 Composition I</td>
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<td>MU 445 Modal Counterpoint</td>
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<td>MU 446 Tonal Counterpoint</td>
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<td>MU 448 Orchestration</td>
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<td>MU 451 Topics in Music Theory</td>
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<td>MU 455 Analysis of Musical Structure</td>
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<td>MU 458 Contemporary Techniques</td>
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<tr>
<td>MU 459 Composition II</td>
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<tr>
<td><strong>Music History and Literature</strong></td>
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<tr>
<td>MU 366 Music in World Cultures</td>
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<tr>
<td>MU 472 Music Hist/Lit 1750-Present</td>
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<tr>
<td><strong>Music Technology</strong></td>
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<td>MU 115 Computer Music I</td>
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<tr>
<td>MU 245 Recording Technology I</td>
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<td>MU 341 Computer Music II</td>
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<tr>
<td>MU 342 Computer Music III</td>
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<tr>
<td>MU 345 Recording Technology II</td>
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<td>MU 441 Multimedia Productions</td>
<td>3</td>
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<td><strong>Music Ensembles</strong></td>
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<tr>
<td>Major Ensembles: Take at least 6 hours</td>
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<tr>
<td>MUP 220 Concert Choir</td>
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<td>MUP 225 Symphony Band</td>
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<td>MUP 230 Guitar Ensemble</td>
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<td>MUP 231 Orchestra</td>
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<td>MUP 232 Marching Band</td>
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<td>MUP 235 Wind Symphony</td>
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<td>MUP 236 Jazz Ensemble</td>
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<td>MUP 353 Piano Ensemble</td>
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<td>Minor Ensembles:</td>
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<td>MUP 110 Gospel Choir</td>
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<td>MUP 221 Jazz Combo</td>
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<td>MUP 234 Percussion Ensemble</td>
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<tr>
<td>Applied Music</td>
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<td>Select four hours from Music Performance (MUP) courses designated &quot;Private Lessons&quot; at the 200-level or higher (each course may be repeated for credit)</td>
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<tr>
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<td>MUP 261 Private Lessons: Flute</td>
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<td>MUP 296 Private Lessons: Jazz Guitar</td>
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<td>MUP 340 Private Lessons: Voice</td>
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MUP 464 Private Lessons: Saxophone
MUP 466 Private Lessons: Bassoon
MUP 471 Private Lessons: Trumpet
MUP 472 Private Lessons: French Horn
MUP 473 Private Lessons: Trombone
MUP 474 Private Lessons: Euphonium
MUP 475 Private Lessons: Tuba
MUP 480 Private Lessons: Percussion
MUP 491 Private Lessons: Violin
MUP 492 Private Lessons: Viola
MUP 493 Private Lessons: Cello
MUP 494 Private Lessons: Bass
MUP 495 Private Lessons: Guitar

**Piano Proficiency**
MUP 125 Piano Proficiency 0

**Performance Attendance (take for seven terms)**
MUP 001 Performance Attendance 0

**Music Technology Capstone**
MU 498 Music Technology Internship 1-2

**Total Hours** 55-57

1 Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.

2 Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, "Major Ensembles" and "Minor Ensembles." Students completing the Music Technology concentration have two options for fulfilling this requirement:
   - Option A requires at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble
   - Option B allows students to take up to four hours in the Minor Ensemble course MUP 341 Computer Music Ensemble, with the remaining hours in Major Ensembles.

## Major Requirements for Music Education (Instrumental)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td><strong>Freshman Year Experience Requirement</strong></td>
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<tr>
<td>CAS 112 Success in College</td>
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<tr>
<td><strong>Public Speaking</strong></td>
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<td>CMST 101 Public Speaking</td>
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<tr>
<td><strong>Psychology</strong></td>
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<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
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<tr>
<td><strong>Computer Music</strong></td>
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<tr>
<td>MU 115 Computer Music I</td>
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<tr>
<td><strong>Music Theory and Aural Skills</strong></td>
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<tr>
<td>MU 221 Music Theory I</td>
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<tr>
<td>MU 224 Aural Skills I</td>
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<td>MU 222 Music Theory II</td>
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<td>MU 225 Aural Skills II</td>
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<td>MU 322 Music Theory IV</td>
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<td><strong>Music History and Literature</strong></td>
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<td>MU 366 Music in World Cultures</td>
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<td>MU 471 Music History and Literature to 1750</td>
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<td>MU 472 Music Hist/Lit 1750-Present</td>
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<td><strong>Conducting</strong></td>
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<tr>
<td>MU 429 Advanced Conducting/Techniques</td>
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<td><strong>Music Ensemble</strong></td>
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<tr>
<td>Major Ensemble: Take at least 6 hours</td>
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<tr>
<td>MUP 225 Symphony Band</td>
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<td>MUP 331 Orchestra</td>
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<td>MUP 232 Marching Band</td>
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<td>MUP 235 Wind Symphony</td>
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<td>Minor Ensemble: Take remaining hours</td>
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<td>MUP 221 Jazz Combo</td>
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<td>MUP 230 Guitar Ensemble</td>
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<td>MUP 353 Piano Ensemble</td>
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<td><strong>Applied Music</strong></td>
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<tr>
<td>Select seven hours from Music Performance (MUP) courses designated &quot;Private Lessons&quot; at the 200-level or higher (each course may be repeated for credit). Four of the seven credit hours must be at the 300 level or higher.</td>
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<tr>
<td>MUP 250 Private Lessons: Piano</td>
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**Music Elective**

Select 2 hours from the following:

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<tbody>
<tr>
<td>MU 145</td>
<td>The Music Business</td>
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<tr>
<td>MU 165</td>
<td>Jazz Styles: History and Appreciation</td>
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<tr>
<td>MU 199</td>
<td>Independent Studies</td>
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<tr>
<td>MU 211</td>
<td>Recording Studio Workshop</td>
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<td>Recording Technology I</td>
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<td>MU 261</td>
<td>Introduction to Music Literature</td>
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<td>MU 299</td>
<td>Independent Studies</td>
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<td>MU 330</td>
<td>Marching Band Techniques</td>
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<td>MU 331</td>
<td>Band Literature</td>
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<td>Wind Symphony</td>
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<td>Blazer Band</td>
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<td>Brass Ensemble</td>
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<td>Tuba/Euphonium Ensemble</td>
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<td>MUP 281</td>
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<td>MUP 320</td>
<td>Chamber Singers</td>
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<td>Women’s Chorale</td>
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<td>MUP 340</td>
<td>Private Lessons: Voice</td>
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<td>Private Lessons: Piano</td>
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<td>MUP 353</td>
<td>Piano Ensemble</td>
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<td>Private Lessons: Flute</td>
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<td>Private Lessons: Oboe</td>
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<td>MUP 363</td>
<td>Private Lessons: Clarinet</td>
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MUP 364  Private Lessons: Saxophone
MUP 366  Private Lessons: Bassoon
MUP 371  Private Lessons: Trumpet
MUP 372  Private Lessons: French Horn
MUP 373  Private Lessons: Trombone
MUP 374  Private Lessons: Euphonium
MUP 375  Private Lessons: Tuba
MUP 380  Private Lessons: Percussion
MUP 391  Private Lessons: Violin
MUP 392  Private Lessons: Viola
MUP 393  Private Lessons: Cello
MUP 394  Private Lessons: Bass
MUP 395  Private Lessons: Guitar
MUP 420  Opera Workshop
MUP 440  Private Lessons: Voice
MUP 450  Private Lessons: Piano
MUP 461  Private Lessons: Flute
MUP 462  Private Lessons: Oboe
MUP 463  Private Lessons: Clarinet
MUP 464  Private Lessons: Saxophone
MUP 466  Private Lessons: Bassoon
MUP 471  Private Lessons: Trumpet
MUP 472  Private Lessons: French Horn
MUP 473  Private Lessons: Trombone
MUP 474  Private Lessons: Euphonium
MUP 475  Private Lessons: Tuba
MUP 480  Private Lessons: Percussion
MUP 491  Private Lessons: Violin
MUP 492  Private Lessons: Cello
MUP 493  Private Lessons: Bass
MUP 495  Private Lessons: Guitar

Piano Proficiency
MUP 125  Piano Proficiency

Performance Attendance (take for seven terms)
MUP 001  Performance Attendance

Applied Methods
MUP 122  Class Voice
MUP 132  Class Woodwinds
MUP 134  Class Brass
MUP 136  Class Percussion
MUP 138  Class Strings

Education
These courses must be taken PRIOR TO admission to TEP:
HPE 200  Quality of Life
EDU 200  Education as a Profession
ECY 300  Survey of Special Education
EDF 362  Foundations of Education I: Social, Historical, Philosophical
EPR 363  Foundations of Education II: Psychological
EDT 300  Teaching and Technology

Music Teaching Methods
These courses require admission to TEP before they can be taken:
EHS 401  Secondary Education Curriculum and Methods
EHS 402  Practicum I
EMU 402  Methods of Teaching Music N-6
EMU 403  Methods of Teaching Music N-6 Lab
EMU 404  Methods of Teaching Music in Secondary Education
EMU 405  Methods of Teaching Music in Secondary Education Lab
EHS 471  Special Education Accommodation / Modification Lab
EPR 411  Measurement and Evaluation in Education
EDR 442  Reading in Content Areas

Internship
EMU 490  Internship in Music Education
EMU 499  Internship Seminar in Music Education N - 12

Total Hours 105-106

1. Completing this requirement will also count toward Core Curriculum Area II.
2. Completing this requirement will also count toward Core Curriculum Area IV.
3. Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.
4. Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, Major Ensembles and Minor Ensembles. Music majors must complete at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble.

Additional Requirements for Teacher Certified Programs

Teacher Education Program
A student must be admitted to the Teacher Education Program and complete all of the requirements.

Major Requirements for Music Education (Vocal)

Requirements Hours
Freshman Year Experience Requirement
CAS 112  Success in College 1

Public Speaking
CMST 101  Public Speaking 3

Psychology
PY 101  Introduction to Psychology 2 3

Computer Music
MU 115  Computer Music I 3

Music Theory and Aural Skills
MU 221  Music Theory I 3
MU 224  Aural Skills I 1
MU 222  Music Theory II 3
MU 225  Aural Skills II 1
MU 321  Music Theory III 3
MU 324  Aural Skills III 1
MU 322  Music Theory IV 3
MU 325  Aural Skills IV 1

Music History and Literature
MU 366  Music in World Cultures 2
MU 471  Music History and Literature to 1750 3
MU 472  Music Hist/Lit 1750-Present 3
### Conducting
- MU 329: Conducting I  (2 credit hours)
- MU 429: Advanced Conducting/Techniques  (2 credit hours)

### Music Ensemble
- Major Ensemble: Take for a minimum of 6 terms
  - MUP 220: Concert Choir
- Minor Ensemble
  - MUP 110: Gospel Choir
  - MUP 320: Chamber Singers
  - MUP 321: Women’s Chorale
  - MUP 420: Opera Workshop

### Applied Music
Select seven hours from the following courses (each course may be repeated for credit). Four credit hours must be at the 300 level or higher.
- MUP 240: Private Lessons: Voice
- MUP 250: Private Lessons: Piano
- MUP 340: Private Lessons: Voice
- MUP 350: Private Lessons: Piano
- MUP 440: Private Lessons: Voice
- MUP 450: Private Lessons: Piano

### Music Elective
Select three hours from the following courses:
- MU 145: The Music Business
- MU 165: Jazz Styles: History and Appreciation
- MU 199: Independent Studies
- MU 210: Special Workshop
- MU 211: Recording Studio Workshop
- MU 235: English and Italian Diction
- MU 236: French and German Diction
- MU 245: Recording Technology I
- MU 261: Introduction to Music Literature
- MU 299: Independent Studies
- MU 330: Marching Band Techniques
- MU 331: Band Literature
- MU 341: Computer Music II
- MU 342: Computer Music III
- MU 345: Recording Technology II
- MU 359: Composition I
- MU 364: American Music
- MU 365: The Evolution of Jazz
- MU 366: Music in World Cultures
- MU 367: Introduction to Ethnomusicology
- MU 399: Independent Studies
- MU 441: Multimedia Productions
- MU 445: Modal Counterpoint
- MU 446: Tonal Counterpoint
- MU 448: Orchestration
- MU 451: Topics in Music Theory
- MU 455: Analysis of Musical Structure
- MU 458: Contemporary Techniques
- MU 459: Composition II
- MU 461: Seminar in Music Literature
- MU 499: Independent Studies
- MUP 140: Private Lessons: Voice
- MUP 150: Private Lessons: Piano
- MUP 161: Private Lessons: Flute
- MUP 162: Private Lessons: Oboe
- MUP 163: Private Lessons: Clarinet
- MUP 164: Private Lessons: Saxophone
- MUP 166: Private Lessons: Bassoon
- MUP 171: Private Lessons: Trumpet
- MUP 172: Private Lessons: French Horn
- MUP 173: Private Lessons: Trombone
- MUP 174: Private Lessons: Euphonium
- MUP 175: Private Lessons: Tuba
- MUP 180: Private Lessons: Percussion
- MUP 191: Private Lessons: Violin
- MUP 192: Private Lessons: Viola
- MUP 193: Private Lessons: Cello
- MUP 194: Private Lessons: Bass
- MUP 195: Private Lessons: Guitar
- MUP 220: Concert Choir
- MUP 221: Jazz Combo
- MUP 225: Symphony Band
- MUP 230: Guitar Ensemble
- MUP 231: Orchestra
- MUP 232: Marching Band
- MUP 233: Clarinet Choir
- MUP 234: Percussion Ensemble
- MUP 235: Wind Symphony
- MUP 236: Jazz Ensemble
- MUP 237: Blazer Band
- MUP 238: Brass Ensemble
- MUP 239: Tuba/Euphonium Ensemble
- MUP 240: Private Lessons: Voice
- MUP 250: Private Lessons: Piano
- MUP 253: Private Lessons: Jazz Piano
- MUP 261: Private Lessons: Flute
- MUP 262: Private Lessons: Oboe
- MUP 263: Private Lessons: Clarinet
- MUP 264: Private Lessons: Saxophone
- MUP 266: Private Lessons: Bassoon
- MUP 267: Private Lessons: Jazz Saxophone
- MUP 271: Private Lessons: Trumpet
- MUP 272: Private Lessons: French Horn
- MUP 273: Private Lessons: Trombone
- MUP 274: Private Lessons Euphonium
- MUP 275: Private Lessons: Tuba
- MUP 276: Private Lessons: Jazz Trumpet
- MUP 277: Private Lessons: Jazz Trombone
- MUP 280: Private Lessons: Percussion
- MUP 281: Private Lessons: Jazz Percussion
- MUP 291: Private Lessons: Violin
- MUP 292: Private Lessons: Viola
- MUP 293: Private Lessons: Cello
- MUP 294: Private Lessons: Bass
- MUP 295: Private Lessons: Guitar
- MUP 296: Private Lessons: Jazz Guitar
- MUP 297: Private Lessons: Jazz Bass
- MUP 320: Chamber Singers
- MUP 321: Women’s Chorale
- MUP 340: Private Lessons: Voice
- MUP 341: Computer Music Ensemble
College of Arts and Sciences

MUP 350  Private Lessons: Piano
MUP 353  Piano Ensemble
MUP 361  Private Lessons: Flute
MUP 362  Private Lessons: Oboe
MUP 363  Private Lessons: Clarinet
MUP 364  Private Lessons: Saxophone
MUP 366  Private Lessons: Bassoon
MUP 371  Private Lessons: Trumpet
MUP 372  Private Lessons: French Horn
MUP 373  Private Lessons: Trombone
MUP 374  Private Lessons: Euphonium
MUP 375  Private Lessons: Tuba
MUP 380  Private Lessons: Percussion
MUP 391  Private Lessons: Violin
MUP 392  Private Lessons: Viola
MUP 393  Private Lessons: Cello
MUP 394  Private Lessons: Bass
MUP 395  Private Lessons: Guitar
MUP 420  Opera Workshop
MUP 440  Private Lessons: Voice
MUP 450  Private Lessons: Piano
MUP 461  Private Lessons: Flute
MUP 462  Private Lessons: Oboe
MUP 463  Private Lessons: Clarinet
MUP 464  Private Lessons: Saxophone
MUP 466  Private Lessons: Bassoon
MUP 471  Private Lessons: Trumpet
MUP 472  Private Lessons: French Horn
MUP 473  Private Lessons: Trombone
MUP 474  Private Lessons: Euphonium
MUP 475  Private Lessons: Tuba
MUP 491  Private Lessons: Percussion
MUP 492  Private Lessons: Violin
MUP 493  Private Lessons: Cello
MUP 494  Private Lessons: Bass
MUP 495  Private Lessons: Guitar

Piano Proficiency
MUP 125  Piano Proficiency  0

Performance Attendance (take for seven terms)
MUP 001  Performance Attendance  0

Applied Methods
MUP 132  Class Woodwinds  1
MUP 134  Class Brass  1
MUP 136  Class Percussion  1
MUP 138  Class Strings  1

Education
These courses must be taken PRIOR TO admission to TEP:
HPE 200  Quality of Life  2
EDU 200  Education as a Profession  3
EGY 300  Survey of Special Education  3
EDF 362  Foundations of Education I: Social, Historical, Philosophical  3
EPR 363  Foundations of Education II: Psychological  3
EDT 300  Teaching and Technology  3

Music Teaching Methods
These courses require admission to TEP before they can be taken:
EHS 401  Secondary Education Curriculum and Methods  3
EHS 402  Practicum I  1
EMU 402  Methods of Teaching Music N-6  3
EMU 403  Methods of Teaching Music N-6 Lab  1
EMU 404  Methods of Teaching Music in Secondary Education  3
EMU 405  Methods of Teaching Music in Secondary Education Lab  1
EHS 471  Special Education Accommodation / Modification Lab  1
EPR 411  Measurement and Evaluation in Education  3
EDR 442  Reading in Content Areas  3

Internship
EMU 490  Internship in Music Education  9
EMU 499  Internship Seminar in Music Education N - 12  1

Total Hours  105

1. Completing this requirement will also count toward Core Curriculum Area II.
2. Completing this requirement will also count toward Core Curriculum Area IV.
3. Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.
4. Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, Major Ensembles and Minor Ensembles. Music majors must complete at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble.

Additional Requirements for Teacher Certified Programs

Teacher Education Program
A student must be admitted to the Teacher Education Program and complete all of the requirements.

Proposed Program of Study for a Major in Music

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<td>EH 102</td>
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<td>EH 101</td>
<td>3</td>
<td>MU 115</td>
<td>3</td>
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<td>MA 110 or 105</td>
<td>3</td>
<td>MU 120 (or other Fine Arts course)</td>
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<td>MU 221</td>
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<td>MU 222</td>
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<td>First Term</td>
<td></td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td>Area II Literature course</td>
<td>3</td>
<td>Area II or IV course to complete sequence</td>
<td>3</td>
</tr>
<tr>
<td>Area III Science course with Lab</td>
<td>4</td>
<td>Area III: Natural Science with Lab</td>
<td>4</td>
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Proposed Program of Study for a Major in Applied Lessons

**First Term**
- MU 124
- MUP 001
- MUP 124
- Applied Lessons
- Ensemble

**Second Term**
- MU 221
- MU 120
- EH 101
- Area II or IV course
- MU 329
- MU 471
- MU 001
- Applied Lessons
- Ensemble

**Junior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area IV Social/Behavioral Science course</td>
<td>3</td>
<td>Area II Humanities course</td>
<td>3</td>
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<tr>
<td>Area II or IV course</td>
<td>3</td>
<td>Area IV HY or SBS course</td>
<td>3</td>
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<tr>
<td>MU 329</td>
<td>2</td>
<td>Advanced Theory course</td>
<td>3</td>
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<tr>
<td>MU 471</td>
<td>3</td>
<td>MU 472</td>
<td>3</td>
</tr>
<tr>
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<td>0</td>
<td>MUP 001</td>
<td>0</td>
</tr>
<tr>
<td>Applied Lessons</td>
<td>2</td>
<td>Applied Lessons</td>
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</tr>
<tr>
<td>Ensemble</td>
<td>1</td>
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<td>1</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>15</td>
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<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Electives</td>
<td>12</td>
<td>Electives</td>
<td>12</td>
</tr>
<tr>
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<td>0</td>
<td>Music Elective (if needed)</td>
<td>0</td>
</tr>
<tr>
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<td>2</td>
<td>Applied Lessons</td>
<td>2</td>
</tr>
<tr>
<td>Ensemble</td>
<td>1</td>
<td>MUP 497</td>
<td>0</td>
</tr>
<tr>
<td></td>
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Total credit hours: 120

Proposed Program of Study for a Major in Music Education (Choral)

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS 112</td>
<td>1</td>
<td>HPE 200</td>
<td>1</td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3</td>
<td>Area III MA 105, 110, or higher</td>
<td>3</td>
</tr>
<tr>
<td>MU 120</td>
<td>3</td>
<td>MU 115</td>
<td>3</td>
</tr>
<tr>
<td>MU 221</td>
<td>3</td>
<td>MU 222</td>
<td>3</td>
</tr>
<tr>
<td>MU 224</td>
<td>1</td>
<td>MU 225</td>
<td>1</td>
</tr>
<tr>
<td>MUP 001</td>
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<td>0</td>
</tr>
<tr>
<td>MUP 124</td>
<td>1</td>
<td>MUP 124</td>
<td>1</td>
</tr>
<tr>
<td>Applied Lessons</td>
<td>1</td>
<td>Applied Lessons</td>
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</tr>
<tr>
<td>Ensemble</td>
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<td>1</td>
</tr>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Sophomore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area II Literature course to complete sequence</td>
<td>3</td>
<td>Literature course to complete sequence</td>
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<tr>
<td>EDU 200</td>
<td>3</td>
<td>PY 101</td>
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<td>MU 321</td>
<td>3</td>
<td>MU 322</td>
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</tr>
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<td>MU 329</td>
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<td>MU 366</td>
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<td>MUP 132</td>
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<tr>
<td>MUP 136</td>
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<td>MUP 134</td>
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</tr>
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**Senior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
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<td>Electives</td>
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<td>Music Elective (if needed)</td>
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<tr>
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<td>MUP 497</td>
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Total credit hours: 138-140

Proposed Program of Study for a Major in Music Education (Instrumental)

**Freshman**

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<th>Hours</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area II Literature course to complete sequence</td>
<td>3</td>
<td>Area III Science course with Lab</td>
<td>3</td>
</tr>
<tr>
<td>EDU 200</td>
<td>3</td>
<td>PY 101</td>
<td>3</td>
</tr>
<tr>
<td>MU 321</td>
<td>3</td>
<td>MU 322</td>
<td>3</td>
</tr>
<tr>
<td>MU 324</td>
<td>1</td>
<td>MU 325</td>
<td>1</td>
</tr>
<tr>
<td>MU 329</td>
<td>2</td>
<td>MU 366</td>
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</tr>
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</tr>
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**Sophomore**

<table>
<thead>
<tr>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Area II Literature course to complete sequence</td>
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<td>Area III Science course with Lab</td>
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</tr>
<tr>
<td>EDU 200</td>
<td>3</td>
<td>PY 101</td>
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<td>MU 321</td>
<td>3</td>
<td>MU 322</td>
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</tr>
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<td>MU 325</td>
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<td>MUP 132</td>
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<td>Ensemble</td>
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The University of Alabama at Birmingham
## Proposed Program of Study for a Major in Music Technology

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 112</td>
<td>1 EH 102</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 Area III Mathematics course: MA 110, 105 or above</td>
</tr>
<tr>
<td>MU 120 (or other Fine Arts course)</td>
<td>3 MU 115</td>
</tr>
<tr>
<td>MU 221</td>
<td>3 MU 222</td>
</tr>
<tr>
<td>MU 224</td>
<td>1 MU 225</td>
</tr>
<tr>
<td>MUP 001</td>
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<tr>
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<td>1 MUP 124</td>
</tr>
<tr>
<td>Applied Lessons</td>
<td>1 Applied Lessons</td>
</tr>
<tr>
<td>Ensemble</td>
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### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area II Literature course</td>
<td>3 Area II or IV course to complete sequence</td>
</tr>
<tr>
<td>Area IV History course</td>
<td>3 MU 322</td>
</tr>
<tr>
<td>MU 245</td>
<td>3 MU 325</td>
</tr>
<tr>
<td>MU 321</td>
<td>3 MU 345</td>
</tr>
<tr>
<td>MU 324</td>
<td>1 MU 366</td>
</tr>
<tr>
<td>MUP 001</td>
<td>0 MUP 001</td>
</tr>
<tr>
<td>MUP 124</td>
<td>1 MUP 125</td>
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<td>Applied Lessons</td>
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<tr>
<td>Ensemble</td>
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### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Music History or Literature course</td>
<td>3 Area II Elective</td>
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<tr>
<td>Area III Science course with Lab</td>
<td>4 Area III Science course with Lab</td>
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<tr>
<td>Area IV SBS Elective</td>
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<tr>
<td>MU 341</td>
<td>3 MU 342</td>
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<tr>
<td>Advanced Theory</td>
<td>3 MU 472</td>
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<tr>
<td>MUP 001</td>
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### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Remaining Area II or IV Elective</td>
<td>3 MU 498</td>
</tr>
<tr>
<td>MU 441</td>
<td>3 Electives (any discipline)</td>
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<td>Electives (any discipline)</td>
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</tbody>
</table>

| Total credit hours: 120 |                                                       |

### Minor Requirements for Music

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Music Theory</strong></td>
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</tr>
<tr>
<td>MU 221 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MU 222 Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Aural Skills</strong></td>
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</tr>
<tr>
<td>MU 224 Aural Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MU 225 Aural Skills II</td>
<td>1</td>
</tr>
<tr>
<td><strong>Music History and Literature</strong></td>
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</tr>
<tr>
<td>MU 471 Music History and Literature to 1750</td>
<td>3</td>
</tr>
<tr>
<td>MU 472 Music Hist/Lit 1750-Present</td>
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</tr>
<tr>
<td><strong>Music Ensemble</strong></td>
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</tr>
<tr>
<td>Select six hours from the following courses (all courses may be repeated for credit)</td>
<td>6</td>
</tr>
<tr>
<td>MUP 110 Gospel Choir</td>
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</tr>
<tr>
<td>MUP 120 University Chorus</td>
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</tr>
<tr>
<td>MUP 220 Concert Choir</td>
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</tr>
<tr>
<td>MUP 221 Jazz Combo</td>
<td></td>
</tr>
<tr>
<td>MUP 225 Symphony Band</td>
<td></td>
</tr>
<tr>
<td>MUP 230 Guitar Ensemble</td>
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</tr>
<tr>
<td>MUP 231 Orchestra</td>
<td></td>
</tr>
<tr>
<td>MUP 232 Marching Band</td>
<td></td>
</tr>
<tr>
<td>MUP 234 Percussion Ensemble</td>
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</tr>
<tr>
<td>MUP 235 Wind Symphony</td>
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<tr>
<td>MUP 236 Jazz Ensemble</td>
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<tr>
<td>MUP 237 Blazer Band</td>
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<tr>
<td>MUP 320 Chamber Singers</td>
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</tr>
<tr>
<td>MUP 321 Women’s Chorale</td>
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</tr>
<tr>
<td>MUP 341 Computer Music Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUP 353 Piano Ensemble</td>
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</tr>
<tr>
<td>MUP 420 Opera Workshop</td>
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<tr>
<td><strong>Applied Music</strong></td>
<td></td>
</tr>
<tr>
<td>Select three hours from Music Performance (MUP) courses designated “Private Lessons” (each course may be repeated for credit)</td>
<td>3</td>
</tr>
</tbody>
</table>

<p>| Total credit hours: 138-140 |                                                       |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MUP 140</td>
<td>Private Lessons: Voice</td>
</tr>
<tr>
<td>MUP 150</td>
<td>Private Lessons: Piano</td>
</tr>
<tr>
<td>MUP 161</td>
<td>Private Lessons: Flute</td>
</tr>
<tr>
<td>MUP 162</td>
<td>Private Lessons: Oboe</td>
</tr>
<tr>
<td>MUP 163</td>
<td>Private Lessons: Clarinet</td>
</tr>
<tr>
<td>MUP 164</td>
<td>Private Lessons: Saxophone</td>
</tr>
<tr>
<td>MUP 166</td>
<td>Private Lessons: Bassoon</td>
</tr>
<tr>
<td>MUP 171</td>
<td>Private Lessons: Trumpet</td>
</tr>
<tr>
<td>MUP 172</td>
<td>Private Lessons: French Horn</td>
</tr>
<tr>
<td>MUP 173</td>
<td>Private Lessons: Trombone</td>
</tr>
<tr>
<td>MUP 174</td>
<td>Private Lessons: Euphonium</td>
</tr>
<tr>
<td>MUP 175</td>
<td>Private Lessons: Tuba</td>
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<tr>
<td>MUP 180</td>
<td>Private Lessons: Percussion</td>
</tr>
<tr>
<td>MUP 191</td>
<td>Private Lessons: Violin</td>
</tr>
<tr>
<td>MUP 192</td>
<td>Private Lessons: Viola</td>
</tr>
<tr>
<td>MUP 193</td>
<td>Private Lessons: Cello</td>
</tr>
<tr>
<td>MUP 194</td>
<td>Private Lessons: Bass</td>
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<td>Private Lessons: Guitar</td>
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<td>MUP 240</td>
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<td>MUP 250</td>
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<tr>
<td>MUP 261</td>
<td>Private Lessons: Flute</td>
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<tr>
<td>MUP 262</td>
<td>Private Lessons: Oboe</td>
</tr>
<tr>
<td>MUP 263</td>
<td>Private Lessons: Clarinet</td>
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<td>MUP 264</td>
<td>Private Lessons: Saxophone</td>
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<td>MUP 266</td>
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<td>MUP 271</td>
<td>Private Lessons: Trumpet</td>
</tr>
<tr>
<td>MUP 272</td>
<td>Private Lessons: French Horn</td>
</tr>
<tr>
<td>MUP 273</td>
<td>Private Lessons: Trombone</td>
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<tr>
<td>MUP 274</td>
<td>Private Lessons: Euphonium</td>
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<td>MUP 275</td>
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<td>MUP 291</td>
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<tr>
<td>MUP 292</td>
<td>Private Lessons: Viola</td>
</tr>
<tr>
<td>MUP 293</td>
<td>Private Lessons: Cello</td>
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<tr>
<td>MUP 294</td>
<td>Private Lessons: Bass</td>
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<td>MUP 295</td>
<td>Private Lessons: Guitar</td>
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<td>MUP 340</td>
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<tr>
<td>MUP 350</td>
<td>Private Lessons: Piano</td>
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<tr>
<td>MUP 361</td>
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<tr>
<td>MUP 362</td>
<td>Private Lessons: Oboe</td>
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<tr>
<td>MUP 363</td>
<td>Private Lessons: Clarinet</td>
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<tr>
<td>MUP 364</td>
<td>Private Lessons: Saxophone</td>
</tr>
<tr>
<td>MUP 366</td>
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<td>MUP 495</td>
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</table>

**Music Elective**

Select three hours from the following courses: 3

- MU 165 Jazz Styles: History and Appreciation
- MU 199 Independent Studies
- MU 211 Recording Studio Workshop
- MU 245 Recording Technology I
- MU 261 Introduction to Music Literature
- MU 299 Independent Studies
- MU 330 Marching Band Techniques
- MU 331 Band Literature
- MU 341 Computer Music II
- MU 342 Computer Music III
- MU 345 Recording Technology II
- MU 359 Composition I
- MU 364 American Music
- MU 365 The Evolution of Jazz
- MU 366 Music in World Cultures
- MU 367 Introduction to Ethnomusicology
- MU 399 Independent Studies
- MU 429 Advanced Conducting/Techniques
- MU 441 Multimedia Productions
- MU 445 Modal Counterpoint
- MU 446 Tonal Counterpoint
- MU 448 Orchestration
- MU 451 Topics in Music Theory
- MU 455 Analysis of Musical Structure
- MU 458 Contemporary Techniques
- MU 459 Composition II
- MU 461 Seminar in Music Literature
- MU 499 Independent Studies
- MU 140 Private Lessons: Voice
- MU 150 Private Lessons: Piano
- MU 161 Private Lessons: Flute
- MU 162 Private Lessons: Oboe
- MU 163 Private Lessons: Clarinet
- MU 164 Private Lessons: Saxophone
- MU 171 Private Lessons: Trumpet
- MU 172 Private Lessons: French Horn
- MU 173 Private Lessons: Trombone
- MU 174 Private Lessons: Euphonium
- MU 175 Private Lessons: Tuba
- MU 180 Private Lessons: Percussion
### Minor Requirements for Music Technology

#### Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td><strong>Music Theory</strong></td>
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<tr>
<td>MU 221 Music Theory I</td>
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<tr>
<td>MU 222 Music Theory II</td>
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<tr>
<td><strong>Aural Skills</strong></td>
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<td>MU 224 Aural Skills I</td>
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<tr>
<td>MU 225 Aural Skills II</td>
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<tr>
<td><strong>Music History and Literature</strong></td>
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<tr>
<td>MU 261 Introduction to Music Literature</td>
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<td><strong>Music Ensemble</strong></td>
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<tr>
<td>Select four hours from the following courses (all courses may be repeated for credit)</td>
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<tr>
<td>MUP 110 Gospel Choir</td>
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<td>MUP 120 University Chorus</td>
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<td>MUP 220 Concert Choir</td>
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<td>MUP 221 Jazz Combo</td>
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<td>MUP 225 Symphony Band</td>
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<td>MUP 230 Guitar Ensemble</td>
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<tr>
<td>MUP 231 Orchestra</td>
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<td>MUP 232 Marching Band</td>
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<td>MUP 234 Percussion Ensemble</td>
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<td>MUP 235 Wind Symphony</td>
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<td>MUP 236 Jazz Ensemble</td>
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<td>MUP 237 Blazer Band</td>
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<td>MUP 320 Chamber Singers</td>
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<td>MUP 321 Women’s Chorale</td>
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<td>MUP 340 Private Lessons: Voice</td>
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<td>MUP 341 Computer Music Ensemble</td>
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<td>MUP 350 Private Lessons: Piano</td>
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<td>MUP 353 Piano Ensemble</td>
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<tr>
<td>MUP 420 Opera Workshop</td>
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<td>MUP 495 Private Lessons: Guitar</td>
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#### Total Hours

26
### Music Honors Program

#### Purpose
The Music Honors Program is designed for highly talented, self-motivated students majoring in music. Through individual instruction and mentoring by the student’s applied faculty member, he/she will present a full public recital on his/her major instrument or present a series of original compositions. In the Department of Music this program is also referred to as the Young Performing Artists Program.

#### Eligibility
Acceptance to the Music Honors Program requires the student to:

- Be a music major.
- Be of at least sophomore standing in music.
- Be admitted to 300-level private lessons.
- Earn and maintain an overall GPA of 3.0 and a minimum cumulative GPA of 3.25 in all music courses.

#### Requirements
- Have permission of his/her applied instructor.
- Be recommended and accepted to the program by members of the music faculty by way of an end-of-semester jury.
- Present a 30 minute (junior year) and/or 1 hour (senior year) preliminary recital before the music faculty. Permission from the faculty must be granted before proceeding to a public recital.
- In consultation with the applied teacher, arrange and program a recital, write program notes, and assemble the program.
- Present a 30 minute (junior year) and/or 1 hour (senior year) public recital.

#### Benefits
Students will receive valuable individual attention and a public recital sponsored by the Department of Music. On most occasions, the performance is accompanied by a professional accompanist and is recorded onto compact disc. This recording is of great use to students when they are applying for music positions, graduate schools, and teaching positions.
fellowships, and assistantships. Students who complete the program will graduate "With Honors in Music."

Contact
For more information concerning the Department of Music Honors Program, please contact:
Dr. William Price, Coordinator
Young Performing Artists Program
234 Hulsey Center
Campus Phone: (205) 934-8056
E-mail: pricewm@uab.edu

Dr. Howard Irving, Chair
Department of Music
232 Hulsey Center
Campus Phone: (205) 934-7376
E-mail: irving@uab.edu

Department of Philosophy

Chair: Gregory Pence

The Department of Philosophy offers the Bachelor of Arts degree with a major in philosophy, as well as a minor in philosophy and course offerings for non-majors and non-minors (including occasional graduate courses for students in other fields). The department also sponsors an interdisciplinary minor in Philosophy and Law and interdisciplinary concentration in Philosophy and Political Economy. Both are described below.

The program for majors is built around two aims. First, the major offers study of the methods, problems, and history of philosophy. Second, it exposes the student to applications of and current developments within the discipline. Throughout the major goal is to teach students to present and analyze critically arguments, both orally and in writing. Graduates of the department have pursued such careers as teaching, law, medicine, counseling, and business.

Further information about the department and its programs may be obtained at the department’s website: www.uab.edu/philosophy.

There are three different ways in which to major in philosophy at UAB:

- The general track.
- The individually designed track.
- The honors track.

When a student first declares a major in philosophy, he or she is classified in the general track. Students remain in this track unless they request entry into the individually designed track or are successfully admitted upon request into the honors track. These requests are made of the department chair.

The general track appeals to students with broad philosophic interests as well as students desiring a second major or in need of class schedule flexibility. The individually designed track is designed in consultation with a faculty advisor in areas such as applied ethics, bioethics, cognitive science, history of ideas, law and society, religion, and science and the modern world. Students graduating in the honors track graduate "With Honors in Philosophy."

Residency at least 25 percent of the total semester hours required for graduation, including a minimum of 21 of the last 30, must be taken at UAB. Courses taken as alternative credit or as a non-degree student (excluding post-baccalaureate students) may not be used to satisfy the residency requirement. A minimum of nine semester hours required for the major (at or above the 400 level) must be completed at UAB.

Concentration: Philosophy, Politics and Economics

The Department of Philosophy together with the Department of Marketing, Industrial Distribution, and Economics and the Department of Government offer a concentration in Philosophy, Politics, and Economics.

The concentration focuses on the interesting array of topics at the intersection of Philosophy, Economics, and Political Science. Students in the PPE concentration will work with faculty in all three departments.

Because the PPE concentration trains students to attack a wide range of problems using rigorous analytical techniques, it is an excellent basis for those who are interested in going to graduate school, whether in Philosophy, Economics, or Political Science; for those who want to go to law school; and for those who want to pursue careers in journalism, politics, management, intelligence, marketing, industrial organization, and many other fields. Students with an interest in fundamental research will have ample opportunity to learn what is going on at the research frontier.

To get the PPE degree a student must get a Bachelor’s degree in Philosophy and satisfy additional requirements (to learn more click on ‘Majors’ and ‘Four-Year Plans’). Students who may be interested in getting a PPE degree are encouraged to contact Dr. David Morrow at davidmorrow@uab.edu, who will be happy to answer your questions.

Major Requirements for Philosophy

<table>
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<tr>
<th>Requirements</th>
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<td>Philosophy Requirements</td>
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<tr>
<td>Select 10 Philosophy (PHL) courses, with 7 courses at the 200-level or higher, 3 courses must be at the 400-level, one of which must be a Capstone—PHL 490, 491, or 492</td>
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<tr>
<td>PHL 100 Introduction to Philosophy</td>
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<td>PHL 115 Contemporary Moral Issues</td>
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<td>PHL 116 Bioethics</td>
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<tr>
<td>PHL 309 Teaching Practicum</td>
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<tr>
<td>PHL 314 Philosophy and Feminism</td>
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Grade Requirement
No course in which a grade below "C" has been earned may be counted toward the major.

Requirements for Philosophy, Politics and Economics (PPE) Concentration

<table>
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<td>Spine Requirements</td>
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<tr>
<td>MA 109 Survey of Calculus</td>
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<tr>
<td>PHL 322 Philosophical Issues in Behavior Economics</td>
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<tr>
<td>PHL 321 Cooperation and Competition</td>
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<tr>
<td>PHL 491 Philosophy Seminar (Capstone)</td>
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<td>Statistics Requirement</td>
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<td>JS 120 Introduction to Statistics</td>
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<td>PY 214 Elementary Statistical Methods and Design</td>
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<td>SOC 410 Social Statistics</td>
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<td>QM 214 Quantitative Analysis I</td>
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<td>Economics Requirements</td>
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<td>EC 210 Principles of Microeconomics</td>
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<td>EC 211 Principles of Macroeconomics</td>
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<td>EC 304 Microeconomics</td>
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<td>EC 301 Money and Banking</td>
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<td>EC 303 Labor Economics</td>
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<td>EC 305 Macroeconomics</td>
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<td>EC 308 Economics of Environment</td>
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<td>EC 310 Managerial Economics</td>
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<td>EC 401 Mathematical Approach in Economics and Business</td>
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<td>EC 403 Monetary Economics</td>
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<td>EC 404 Topics in Public Policy</td>
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<td>EC 405 Economic Development and Growth</td>
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<td>EC 407 International Economics</td>
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<td>EC 408 Topics in the History of Economic Theory</td>
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<td>EC 409 Survey of Econometrics</td>
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<td>EC 411 Public Finance</td>
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<td>EC 413 Urban Economics</td>
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<td>EC 414 Industrial Organization</td>
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<td>EC 420 Applied Forecasting</td>
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<td>EC 425 Applied Regression Analysis</td>
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<td>EC 440 Economics for Educators</td>
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<td>EC 460 Economics Internship</td>
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<td>EC 490 Advanced Topics in Economics</td>
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<td>EC 499 Directed Readings in Economics</td>
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<td>EC 540 Economics for Educators</td>
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<td>Major Electives</td>
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<td>PHL 321 Cooperation and Competition</td>
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</tr>
<tr>
<td>PHL 322 Philosophical Issues in Behavior Economics</td>
<td></td>
</tr>
<tr>
<td>PHL 330 Libertarianism: A Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 335 Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td>PHL 341 History of Philosophy: Descartes to Hume</td>
<td></td>
</tr>
<tr>
<td>PHL 348 American Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 350 Philosophy of Language</td>
<td></td>
</tr>
</tbody>
</table>


Grade Requirement

No course in which a grade below "C" has been earned may be counted toward the major.

Proposed Program of Study for a Major in Philosophy

Freshman

First Term

PHL 100 or 115 3
PHL 120 3

Second Term

Any two 200 or 300 level philosophy classes 6

Sophomore

First Term

Any two 200 or 300 level philosophy classes 6

Second Term

Any two 300 or 400 level philosophy classes 6

Junior

First Term

Any two 300 or 400 level philosophy classes 6

Senior

First Term

PHL 490 3

Total credit hours: 30

Proposed Program of Study for a Major in Philosophy with Concentration in Philosophy, Politics and Economics (PPE)

Freshman

First Term

PHL 100 3
PHL 120 3

Second Term

PHL 100 3

Sophomore

First Term

MA 109 3
PHL 230 3

Second Term

QM 214 3
EC 210 6

Junior

First Term

PHL 322 3
EC 211 3

Second Term

PHL 375 3

Senior

First Term

EC 304 3
PHL 405 3

Second Term

PHL 491 3

Total credit hours: 48

1 Courses are required for the Philosophy & Political Economy (PPE) Concentration.

Minor Requirements for Philosophy

Requirements  Hours
Philosophy Requirement  18

Select 18 hours from Philosophy (PHL) courses, with at least 9 hours at the 200-level or above.

Total Hours  18

A grade of "C" or better is required in all philosophy courses for the minor.

Minor Requirements for Philosophy & Law

Director: Theodore Benditt (Philosophy)

The Philosophy and Law minor provides interested students with a secondary specializations focusing upon the philosophical underpinnings of the political and legal systems of the United States and the modes of thought found in the legal system. Since legal argument frequently uses ideas found in moral thought, exposure to the theory or history of ethics is critical. The program may be of interest to students contemplating a career in law and related careers, though it is not intended as a pre-law or legal studies program.
## Minor Requirements for Philosophy & Law

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Philosophy Courses</strong></td>
<td></td>
</tr>
<tr>
<td>PHL 135 The Rule of Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 230 Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 335 Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>or PHL 435 Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td><strong>Ethical Theory</strong></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>PHL 125 Introduction to Ethics</td>
<td></td>
</tr>
<tr>
<td>PHL 215 History of Moral Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 315 Ethics: Theories of Good and Evil</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following (other courses may be selected with approval of director):</td>
<td></td>
</tr>
<tr>
<td>JS 150 Foundations of Law</td>
<td></td>
</tr>
<tr>
<td>JS 230 The Judicial Process in America: An Overview</td>
<td></td>
</tr>
<tr>
<td>PSC 330 The American Judicial Process</td>
<td></td>
</tr>
<tr>
<td>PSC 340 American Political Thought</td>
<td></td>
</tr>
<tr>
<td>PSC 380 The Politics of Constitutional Law</td>
<td></td>
</tr>
<tr>
<td>PSC 381 The Bill of Rights</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

## Major in Philosophy with Honors

The Philosophy Honors Program is designed for qualified, self-motivated students. It is suited for those contemplating graduate work in philosophy or in professional fields in which an honors degree is desired. Through special distribution and credit hour requirements and a directed honors thesis, honors students are prepared for in-depth philosophical research and related graduate and professional opportunity. For acceptance in Philosophy Honors Program a student must

- be a philosophy major
- have at least sophomore standing
- have at least nine semester hours in UAB philosophy courses
- have at least a 3.5 GPA in UAB philosophy course work
- submit an application to the department (application is available from department office)

## Additional Requirements For Honors in Philosophy Degree

### Course Grade and GPA Requirement

No course in which a grade below C has been earned may be counted toward the major. A 3.6 GPA in philosophy (PHL) courses is required for graduation with honors.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethics and Value Theory</strong></td>
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<tr>
<td>Select two of the following:</td>
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</tr>
<tr>
<td>PHL 115 Contemporary Moral Issues</td>
<td></td>
</tr>
<tr>
<td>PHL 116 Bioethics</td>
<td></td>
</tr>
<tr>
<td>PHL 125 Introduction to Ethics</td>
<td></td>
</tr>
<tr>
<td>PHL 135 The Rule of Law</td>
<td></td>
</tr>
<tr>
<td>PHL 215 History of Moral Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 230 Social and Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 232 Classical Political Thought</td>
<td></td>
</tr>
<tr>
<td>PHL 233 Modern Political Theory</td>
<td></td>
</tr>
<tr>
<td>PHL 315 Ethics: Theories of Good and Evil</td>
<td></td>
</tr>
<tr>
<td>PHL 330 Libertarianism: A Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 335 Philosophy of Law</td>
<td></td>
</tr>
</tbody>
</table>

### History of Philosophy

Select two of the following:

- PHL 205 Existentialism
- PHL 215 History of Moral Philosophy
- PHL 239 Classical Thought of India China and the West
- PHL 240 History of Philosophy: Socrates Plato and Aristotle
- PHL 341 History of Philosophy: Descartes to Hume
- PHL 442 Hist of PHL.Kant and 19th Cent
- PHL 348 American Philosophy
- PHL 443 History of Philosophy: Twentieth Century

### Epistemology/Metaphysics/Philosophy of Mind/Logic/Philosophy of Language/Philosophy of Science

Select three of the following:

- PHL 220 Introduction to Symbolic Logic
- PHL 270 The Scientific Enterprise
- PHL 320 Intermediate Symbolic Logic
- PHL 350 Philosophy of Language
- PHL 372 Minds and Machines
- PHL 375 Philosophy of Mind
- PHL 405 Epistemology: Theories of Knowledge
- PHL 408 Metaphysics
- PHL 470 Philosophical Problems in the Natural and Social Sciences

### Seminar

Select one of the following:

- PHL 490 Philosophy Seminar
- PHL 491 Philosophy Seminar
- PHL 492 Philosophy Seminar

### Philosophy Electives

Select three of the following:

- PHL 100 Introduction to Philosophy
- PHL 115 Contemporary Moral Issues
- PHL 116 Bioethics
- PHL 120 Practical Reasoning
- PHL 125 Introduction to Ethics
- PHL 135 The Rule of Law
- PHL 203 Philosophy of Religion
- PHL 204 Philosophy and Christianity
- PHL 205 Existentialism
- PHL 208 Philosophy of the Arts
- PHL 215 History of Moral Philosophy
- PHL 220 Introduction to Symbolic Logic
- PHL 229 Classical Thought of India China and the West
- PHL 240 History of Philosophy: Socrates Plato and Aristotle
- PHL 270 The Scientific Enterprise
- PHL 290 Topics in Philosophy
- PHL 291 Topics in Philosophy
- PHL 292 Topics in Philosophy
- PHL 314 Philosophy and Feminism
Department of Physics

Chair: David L. Shealy

Physics is a basic science concerned with the study of the universe and the matter, space-time, energy and interactions that take place among them. It includes core theories of classical mechanics, electromagnetism, quantum mechanics, relativity, and thermodynamics. Practical applications of these theories are covered in courses such as Biophysics, Laser Physics, Optics, Solid State Physics, and Nanoscale Science & Applications. There are opportunities for physics majors to excel through research participation in funded projects where stipends are available and/or the established NSF/NASA REU Program, by joining the Honors Physics Program, and/or by participating in the Society of Physics Students.

The Department of Physics offers courses in astronomy, physics, and physical science. The B.S. degree, with a major in physics, is offered via two tracks. Advising for all physics majors is provided by a professional advisor in conjunction with faculty members. Throughout the course of study of physics as a major or minor, emphasis is placed on understanding of the theories of physics to solve basic and applied problems in science and technology by using critical thinking and systematic analysis. Physicists work effectively in many careers which require these skills, such as, design and development; programming; quality control; high school teaching; management and administration; financial, medical, and legal services; and applied research.

For the major, there are two distinct B.S. degree tracks in physics:

1. Physics
2. Biophysics

The Physics Track is designed to prepare students for research and high-tech careers and for graduate study in the physical sciences.

The Biophysics Track is a multidisciplinary program of study designed to place students in medical school, graduate school in the biosciences, teaching positions, or biotech enterprises. A balanced, flexible mix of physics, chemistry, biology and math is required.

A Bachelor of Science degree with Honors in Physics is available for both tracks, and offers the motivated and capable Physics Major with the enhanced opportunity to develop the research, problem-solving and communication skills necessary to excel in a scientific career.

The Department of Physics Web site (http://www.uab.edu/physics/) summarizes information about the Departmental programs. Further information may be obtained from Dr. Renato Camata, Undergraduate Program Director at (205) 934-8143, camata@uab.edu.

Graduate Programs

The Department of Physics offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy in physics. The department also participates in an interdisciplinary Ph.D. degree program in materials science. Further information may be obtained from Dr. Mary Ellen Zvanut, Interim Graduate Program Director at (205) 934-6661, mezvanut@uab.edu, or the UAB Graduate School Catalog.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Major in Physics (p. 186)

Major in Physics with a Biophysics Track (p. 187)

Major Requirements for Physics

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 115  General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117  General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118 General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Required Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>MA 125  Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126  Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 227  Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MA 252  Introduction to Differential Equations</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics Elective

Select one of the following courses: 3-4
MA 260  Introduction to Linear Algebra
MA 265  Math Tools for Engineering Problem Solving
MA 268  Introduction to Mathematical Biology
MA 311  History of Mathematics I
MA 312  History of Mathematics II
MA 360  Scientific Programming
MA 361  Mathematical Modeling
MA 411  Integrating Mathematical Ideas
MA 419  Special Topics
MA 434  Algebra I: Linear
MA 435  Algebra II: Modern
MA 440  Advanced Calculus I
MA 441  Advanced Calculus II
MA 444  Vector Analysis
MA 445  Complex Analysis
MA 453  Transforms
MA 454  Intermediate Differential Equations
MA 455  Partial Differential Equations I
MA 456  Partial Differential Equations II
MA 461  Modeling with Partial Differential Equations
MA 462  Intro to Stochastic Differential Equations
MA 463  Operations Research I
MA 464  Operations Research II
MA 467  Gas Dynamics
MA 468  Numerical Analysis
MA 469  Numerical Analysis II
MA 470  Differential Geometry I
MA 471  Differential Geometry II
MA 472  Geometry I
MA 473  Geometry II
MA 474  Introduction to Topology I
MA 475  Introduction to Topology II
MA 485  Probability
MA 486  Mathematical Statistics

Required Physics Courses
PH 221  General Physics I  4
PH 222  General Physics II  4
PH 351  Modern Physics I  4
PH 352  Modern Physics II  4
PH 432  Statistical Thermodynamics I  3
PH 445  Electromagnetic Theory I  3
PH 446  Electromagnetic Theory II  3
PH 450  Introductory Quantum Mechanics I  3
PH 451  Introductory Quantum Mechanics II  3
PH 461  Classical Mechanics I  3
PH 462  Classical Mechanics II  3
PH 499  Physics Capstone  3

Total Hours  66-67

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Minor
A minor is required for this degree, unless a double major is being earned.

Biophysics Track
The Biophysics Track is a multidisciplinary program of study designed to place students in medical school, graduate school in the biosciences, teaching positions, or biotech enterprises. A balanced, flexible mix of physics, chemistry, biology and math is required.

Major Requirements for Physics with Biophysics Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Biology</td>
<td></td>
</tr>
<tr>
<td>BY 123 Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 124 Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>Required Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CH 116 &amp; CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CH 118 &amp; CH 118 General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CH 236 &amp; CH 236 Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>4</td>
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<tr>
<td>CH 238 &amp; CH 238 Organic Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>Required Mathematics</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 227 Calculus III</td>
<td>4</td>
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<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Elective</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>MA 260 Introduction to Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MA 265 Math Tools for Engineering Problem Solving</td>
<td></td>
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<tr>
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<tr>
<td>MA 311 History of Mathematics I</td>
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<td>MA 312 History of Mathematics II</td>
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<td>MA 360 Scientific Programming</td>
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<td>MA 361 Mathematical Modeling</td>
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<td>MA 411 Integrating Mathematical Ideas</td>
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<td>MA 419 Special Topics</td>
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<tr>
<td>MA 434 Algebra I: Linear</td>
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<td>MA 435 Algebra II: Modern</td>
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</tr>
<tr>
<td>MA 440 Advanced Calculus I</td>
<td></td>
</tr>
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<td>MA 441 Advanced Calculus II</td>
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<td>MA 445 Complex Analysis</td>
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<tr>
<td>MA 453 Transforms</td>
<td></td>
</tr>
<tr>
<td>MA 454 Intermediate Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 455 Partial Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>MA 456 Partial Differential Equations II</td>
<td></td>
</tr>
</tbody>
</table>

Grade Requirement
Students must earn a grade of “C” or better in all courses applied to this major.
MA 461  Modeling with Partial Differential Equations
MA 462  Intro to Stochastic Differential Equations
MA 463  Operations Research I
MA 464  Operations Research II
MA 467  Gas Dynamics
MA 468  Numerical Analysis
MA 469  Numerical Analysis II
MA 470  Differential Geometry I
MA 471  Differential Geometry II
MA 472  Geometry I
MA 473  Geometry II
MA 474  Introduction to Topology I
MA 475  Introduction to Topology II
MA 485  Probability
MA 486  Mathematical Statistics

Required Physics Courses
PH 221  General Physics I  4
PH 222  General Physics II  4
PH 351  Modern Physics I  4
PH 352  Modern Physics II  4
PH 432  Statistical Thermodynamics I  3
PH 499  Physics Capstone  3

Physics Elective
Select seven hours of approved Physics (PH) courses at the 400 level.  7

Total Hours  71

Grade Requirement
Students must earn a grade of “C” or better in all courses applied to this major.

Additional Requirements
A biophysics track student who has taken all or part of the PH 201-202 sequence before declaring a physics major may petition to have those courses substitute for PH 221-222. Students seeking physics teaching certification should plan for 32 semester hours in physics courses.

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Minor
A minor is required for this degree, unless a double major is being earned.

Proposed Program of Study for a Major in Physics

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EH 101</td>
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<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>CH 115</td>
<td>3</td>
<td>CH 117</td>
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</tr>
<tr>
<td>CH 116</td>
<td>1</td>
<td>CH 118</td>
<td>1</td>
</tr>
<tr>
<td>MA 125</td>
<td>4</td>
<td>MA 126</td>
<td>4</td>
</tr>
<tr>
<td>MU 120</td>
<td>3</td>
<td>PHL 115</td>
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Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>PH 221</td>
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<td>PH 222</td>
<td>4</td>
</tr>
<tr>
<td>MA 227</td>
<td>4</td>
<td>MA 252</td>
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<tr>
<td>EH 216</td>
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<td>CS 101</td>
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<td>HY 101</td>
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<tr>
<td>PE 11x</td>
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<td>SOC 100</td>
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Junior

<table>
<thead>
<tr>
<th>First Term</th>
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<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PH 351</td>
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<td>PH 352</td>
<td>4</td>
</tr>
<tr>
<td>PH 260</td>
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<td>PH 432</td>
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</tr>
<tr>
<td>PH 461</td>
<td>3</td>
<td>PH 462</td>
<td>3</td>
</tr>
<tr>
<td>PH 420</td>
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<td>MA 361</td>
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<td>ANTH 101</td>
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<tr>
<td>HY 101</td>
<td>3</td>
<td>HY 102</td>
<td>3</td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>PH 499</td>
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Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>PH 445</td>
<td>3</td>
<td>PH 446</td>
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<td>PH 450</td>
<td>3</td>
<td>PH 451</td>
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<tr>
<td>PH 4xx</td>
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<td>PH 4xx</td>
<td>3</td>
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<tr>
<td>EC 210</td>
<td>3</td>
<td>PH 499</td>
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</table>

Total credit hours: 120

Proposed Program of Study for a Major in Physics with a Biophysics Track

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>CH 115</td>
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<td>CH 117</td>
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<td>CH 118</td>
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</tr>
<tr>
<td>MA 125</td>
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<td>MA 126</td>
<td>4</td>
</tr>
<tr>
<td>MU 120</td>
<td>3</td>
<td>PHL 115</td>
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</table>

Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 221</td>
<td>4</td>
<td>PH 222</td>
<td>4</td>
</tr>
<tr>
<td>MA 227</td>
<td>4</td>
<td>MA 252</td>
<td>3</td>
</tr>
<tr>
<td>CH 235</td>
<td>3</td>
<td>CH 237</td>
<td>3</td>
</tr>
<tr>
<td>CH 236</td>
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<td>CH 238</td>
<td>1</td>
</tr>
<tr>
<td>HY 101</td>
<td>3</td>
<td>HY 102</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
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<td></td>
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</table>

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 351</td>
<td>4</td>
<td>PH 352</td>
<td>4</td>
</tr>
<tr>
<td>PHL 115</td>
<td>3</td>
<td>PH 491</td>
<td>4</td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>PH 432</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor Requirements for Physics

Requirements

Required Physics Courses

- PH 221 General Physics I  
- PH 222 General Physics II  
- PH 351 Modern Physics I

Hours

- 4
- 4
- 4

Physics Electives

Select 6 hours from the following:

- PH 352 Modern Physics II
- PH 420 Mathematical Methods of Physics I
- PH 423 Computational Physics
- PH 425 Applications of Contemporary Optics I
- PH 432 Statistical Thermodynamics I
- PH 445 Electromagnetic Theory I
- PH 446 Electromagnetic Theory II
- PH 450 Introductory Quantum Mechanics I
- PH 451 Introductory Quantum Mechanics II
- PH 453 Introductory Solid State Physics I
- PH 454 Introductory Solid State Physics II
- PH 461 Classical Mechanics I
- PH 462 Classical Mechanics II
- PH 475 Introduction to Biophysics I
- PH 476 Introduction to Biophysics II
- PH 481 Laser Physics I
- PH 482 Laser Physics II
- PH 487 Nanoscale Science and Applications

Total Hours

- 18

1 PH 221 General Physics I and PH 222 General Physics II may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.

GPA & Residency Requirement

A minimum grade of “C” is required in all courses applied to the minor, as well as all mathematics course prerequisites. A minimum of two physics courses must be completed at UAB.

Honors Program in Physics

The Physics Honors Program offers the motivated and capable physics major enhanced opportunities to develop the research, problem solving, and communication skills necessary for a dedicated effort in the scientific enterprise. By designing, describing, and defending a research project, the honors graduate will have a documented capacity for success in graduate school or in any career where scientific critical thinking, motivation, and accomplishment are valued.

Eligibility

Acceptance into the Physics Honors Program requires the student to:

- have earned a 3.25 GPA in physics courses attempted.
- have earned a 3.0 GPA overall.
- have completed 16 semester hours in physics, including PH 351-PH 352.

Requirements

Students graduating with Physics Honors are required to have completed the following:

- arrangement with a faculty sponsor to do a physics research project satisfying expectations for six semester hours of PH 495 Honors Research
- selection of an Honors Committee.
- committee approval of a written research proposal.
- completion of the proposed six semester hours of PH 495 Honors Research.
- maintenance of a 3.25 GPA in physics courses and an overall 3.0 GPA.
- a written report in the format required by an appropriate journal.
- an oral or poster presentation of the research project to the Honors Committee.

Benefits

The goal of the Physics Honors Program is to train capable undergraduates for uncommon accomplishment in academic research. The new physics honors graduate will have documented experience and productivity commonly found in second- or third-year graduate students. Ideally, the research project will result in publication and presentation at a national conference, giving the honors graduate strong credentials for graduate or medical/professional school, for industrial research, for science writing, and for teaching. Contacts made through publication and conferences and informed references written by mentor and committee members give the honors graduate a significant edge in the job market. The successful honors student will be recognized at the UAB Honors Convocation and will graduate “With Honors in Physics.”

Contact

Dr. Renato P. Camata  
Director Undergraduate Physics Program  
E-Mail: camata@uab.edu

Dr. David L. Shealy, Chair  
E-mail:dls@uab.edu

Telephone: (205) 934-4736  
Mail address  
UAB-Physics  
1530 3rd Ave. S., CH310  
Birmingham, AL 35294-1170 USA
Department of Psychology

Chair: Dr. Karlene K. Ball
Director of Undergraduate Studies: Dr. Maria Hopkins

The curriculum in psychology provides a flexible program for the psychology major leading to the Bachelor of Science degree. Alternatively, students can earn a minor in psychology or take advantage of the numerous course offerings that are open to all students. The department provides a variety of experiences to give students an understanding of the basic principles and mechanisms of behavior. The scientific method is emphasized throughout the curriculum. Students with a major or minor in psychology are encouraged to obtain first-hand experience with both the creation of new knowledge (research) and the application of that knowledge in community and treatment settings. There are many opportunities for students to gain firsthand research experience by working with individual faculty members in a variety of laboratory, clinical, and field research settings. In addition, numerous community and treatment facilities provide settings for students to observe and participate in the application of psychological principles to the solution of individual and social problems.

In addition to providing a major field of study as part of a liberal arts and science education, the B.S. degree in psychology prepares students for graduate study in psychology. The degree also provides a strong intellectual foundation for a variety of careers in areas such as teaching, counseling, social work, human factors engineering, community planning, sales, management, personnel administration, ministry, law, politics, and various health professions, including psychiatry, nursing, medicine, optometry, public health, and physical and occupational therapy. For information on preparation for these careers, see the Psychology Department Undergraduate website, http://www.uab.edu/cas/psychology/

Psychology is an evolving discipline, and after a period of time the material taught in a psychology course is no longer current. For this reason, the Department of Psychology reserves the right to deny credit toward its major and minors for Elementary Statistical Methods (PY 216) and upper level (300 and above) courses completed more than 12 years prior to graduation.

Graduate Program

The Department of Psychology offers programs of study leading to the Doctor of Philosophy (Ph.D.) degree in three areas of psychology: medical clinical psychology (co-sponsored by the School of Medicine), behavioral neuroscience, and lifespan developmental psychology. Although the Master of Science (M.S.) degree is awarded as an intermediate degree in some Ph.D. programs, a terminal M.S. degree program is not offered. Individuals interested in the graduate program should contact the Department of Psychology or the UAB Graduate School.

Major

To qualify for a B.S. degree in psychology, students must complete a minimum of 38 semester hours of courses in psychology and 6 semester hours of coursework in biology, chemistry, or physics, as listed below.

Major Requirements for Psychology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology, Chemistry, or Physics</td>
<td></td>
</tr>
</tbody>
</table>

Select two courses from the following areas:

<table>
<thead>
<tr>
<th>General Requirements 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 201 Honors Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 215 Research Literacy in Psychology</td>
<td>2</td>
</tr>
<tr>
<td>PY 216 Elementary Statistical Methods and Design with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 316 Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 253 Brain, Mind and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PY 490 Psychology Capstone/SL</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Coursework

| 6 |
| Select two of the following: |
| PY 303 Introduction to Cognitive Science |
| PY 312 Advanced Developmental Psychology |
| PY 313 Introduction to Language Development |
| PY 325 Clinical Child Psychology |
| PY 335 Motivation and Emotion |
| PY 350 Personality and Intellectual Assessment |
| PY 353 Behavioral Neuroscience |
| PY 354 Autism: Brain and Cognition |
| PY 361 Psychology of Learning |
| PY 363 Cognitive Psychology |
| PY 370 Personality |
| PY 372 Social Psychology |
| PY 380 Perception |
| PY 390 Animal Behavior |

Psychology Electives

Select three other Psychology (PY) courses, including two courses at the 400 level not otherwise required 3

Total Hours 45

1 BY 111, BY 112, CH 100 and PH 100 may not be taken to satisfy this requirement. Most biology, chemistry, and physics courses that satisfy the Area III Core Curriculum requirement will also satisfy this requirement of the major. It is recommended that students consult with the psychology advisor about this requirement.

2 Completing PY 101 or PY 201 and PY 212 will also satisfy 6 of the 12 required hours in Core Curriculum Area IV.

3 Six hours must be taken at the 400 level. The remaining 3 hours may be taken at either the 300 or 400 level. PY 396 Teaching Practicum in Psychology, PY 397 Community-Based Practicum in Psychology and PY 398 Research Practicum in Psychology may not be used to fulfill more than three hours of this requirement.

Grade and Residency Requirement

A grade of C or better is required in all courses applied to the major. At least 15 hours at the 300 level or above, including at least 9 hours at the 400 level, must be completed at UAB.
Additional Requirements

Minor
A minor is recommended but not required for this degree.

General Electives
Students must take general electives to reach the 120 semester hour graduation requirement. Students are encouraged to assist with ongoing research projects and/or obtain experience with the application of psychology in teaching or community settings. Academic credit may be earned for these experiences. Students preparing to attend graduate school in psychology are strongly encouraged to participate in the Psychology Honors Program, get involved faculty research projects, and develop a strong background in natural sciences, mathematics, and computer science.

Psychology majors may be required to complete a general psychology examination at the time they declare psychology as their major, as well as a second examination upon completion of the course requirements for a B.S. degree in psychology. Although these examinations may be required for graduation, they are intended for program assessment purposes only. Performance on these examinations will not affect students’ grade point averages, nor will they be a factor in determining whether students qualify for the baccalaureate degree.

Psychology majors have a full-time academic advisor available; CAS Advising, Heritage Hall Building, (205) 934-6135, please contact Ms. Jennifer Farnham, farnhamj@uab.edu

Proposed Program of Study for a Major in Psychology

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>EH 101</td>
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<td>2</td>
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</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
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<td>3</td>
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<td></td>
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<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Term</td>
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<td></td>
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</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>PY 216</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PY 218</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
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<td></td>
<td>14</td>
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<table>
<thead>
<tr>
<th>Junior</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Psychology (PY) 300-level (^5)</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Psychology (PY) 300-level</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science with Lab (^4)</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>6</td>
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<td></td>
<td>16</td>
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<table>
<thead>
<tr>
<th>Senior</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Term</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PY 490</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Psychology Elective (Select One):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PY 396</td>
<td>PY 396</td>
<td>PY 396</td>
<td>PY 396</td>
</tr>
<tr>
<td>PY 397</td>
<td>PY 397</td>
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<tr>
<td>PY 398</td>
<td>PY 398</td>
<td>PY 398</td>
<td>PY 398</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
<td>6</td>
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</tr>
<tr>
<td></td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Total credit hours: 120

1. Select One: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3. Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.
4. Must include six hours of approved Biology (BY), Chemistry (CH), or Physics (PH) courses.
5. Select One: PY 303, PY 312, PY 313, PY 325, PY 335, PY 350, PY 353, PY 354, PY 361, PY 363, PY 370, PY 372, PY 380 or PY 390.

A minor is recommended for Psychology Majors.

Minor
To qualify for a minor in psychology, students must complete a minimum of 18 semester hours of courses in psychology, as listed below.

Minor Requirements for Psychology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Psychology Course</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology (^1)</td>
<td>3</td>
</tr>
<tr>
<td>or PY 201 Honors Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>Advanced Psychology</td>
<td>9</td>
</tr>
<tr>
<td>Select nine hours from Psychology (PY) courses at the 300 level or above (^2)</td>
<td>9</td>
</tr>
<tr>
<td>Psychology Electives</td>
<td>6</td>
</tr>
<tr>
<td>Select six hours from Psychology (PY) courses not otherwise required. (^2)</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

1. PY 101 Introduction to Psychology or PY 201 Honors Introduction to Psychology may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.
PY 396 Teaching Practicum in Psychology, PY 397 Community-Based Practicum in Psychology, and PY 398 Research Practicum in Psychology may not be used to fulfill more than three hours of this requirement.

Grade & Residency Requirement
A grade of “C” or better is required in all courses applied to the minor. At least six hours at the 300-level or above must be completed at UAB.

Psychology Honors Program

Purpose
Participation in the Psychology Honors Program provides an enriched learning environment for psychology majors with excellent academic records who are interested in pursuing graduate study and a career in psychology or a related profession. The program provides students with a strong foundation in behavioral science through an enhanced program of study and the opportunity to conduct research with an individual member of the faculty. Students who complete the program will qualify for the B.S. in psychology and graduate “With Honors in Psychology.”

Eligibility
Students may apply for admission to the program at any time after being at UAB for at least one semester, provided they will attend UAB for at least three additional semesters in order to complete their honors thesis program-specific coursework (PY 399 and PY 499). Students should submit an application form (available from their psychology advisor) to the Director of the Psychology Honors Program, whereupon an interview will be scheduled.

For admission to the program, students should have a minimum GPA of 3.50 in psychology coursework, an overall GPA of 3.50 or above (at UAB as well as any transfer institution), and grades of A or B in core English and Mathematics courses.

Requirements
Students in the Psychology Honors program must complete a minimum of 49 semester hours of courses in psychology and 6 semester hours of coursework in biology, chemistry, or physics, as listed below.

Requirements for Honors in Psychology

Grade and Residency Requirement
A grade of C or better is required in all courses applied to these requirements. Overall GPA, Psychology GPA, and Institutional GPA (courses taken at UAB) must all be at least 3.50 and maintained at a minimum 3.50 to remain in and graduate from the Honors Program. At least 18 hours at the 300 level or above, including all honors and practicum courses must be completed at UAB.

Requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology, Chemistry or Physics</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following areas:</td>
<td>6</td>
</tr>
<tr>
<td>Biology (BY)</td>
<td></td>
</tr>
<tr>
<td>Chemistry (CH)</td>
<td></td>
</tr>
<tr>
<td>Physics (PH)</td>
<td></td>
</tr>
<tr>
<td>General Requirements</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 201 Honors Introduction to Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Advanced Coursework

Select three of the following: 9

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 303 Introduction to Cognitive Science</td>
<td>3</td>
</tr>
<tr>
<td>PY 312 Advanced Developmental Psychology</td>
<td>2</td>
</tr>
<tr>
<td>PY 313 Introduction to Language Development</td>
<td>2</td>
</tr>
<tr>
<td>PY 325 Clinical Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 335 Motivation and Emotion</td>
<td>3</td>
</tr>
<tr>
<td>PY 350 Personality and Intellectual Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PY 353 Behavioral Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PY 354 Autism: Brain and Cognition</td>
<td>3</td>
</tr>
<tr>
<td>PY 361 Psychology of Learning</td>
<td>3</td>
</tr>
<tr>
<td>PY 363 Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 370 Personality</td>
<td>3</td>
</tr>
<tr>
<td>PY 372 Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 380 Perception</td>
<td>3</td>
</tr>
<tr>
<td>PY 390 Animal Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Honors Courses
Complete 5 hours of honors coursework: 5

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 399 Psychology Honors Seminar &amp; PY 499 and Psychology Honors Thesis</td>
<td>5</td>
</tr>
</tbody>
</table>

Psychology Electives and Practicum
Select 3 courses at the 400 level not otherwise required, in addition to completing 6 hours of practicum coursework: 15

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 398 Research Practicum in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 396 Teaching Practicum in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 397 Community-Based Practicum in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 57

1. BY 111, BY 112, CH 100, and PH 100 may not be taken to satisfy this requirement. Most biology, chemistry, and physics courses that satisfy the Area III Core Curriculum requirement will also satisfy this requirement of the major. It is recommended that students consult with the psychology advisor about this requirement.

2. Completing PY 101 or PY 201 and PY 212 will also satisfy 6 of the 12 required hours in Core Curriculum Area IV.

3. Take PY 399 Psychology Honors Seminar in any three semesters after joining honors program. Take PY 499 Psychology Honors Thesis concurrently with the last enrollment in PY 399. Note that these courses are only offered in the Spring and Fall semesters.

4. Six hours must be taken at the 400 level. The remaining 3 hours may be taken at either the 300 or 400 level.

5. Take at least 5 hours of PY 398 Research Practicum in Psychology hours of and at least 1 hour of PY 396 Teaching Practicum in Psychology.

Requirements for the general psychology examination, described above for the major in psychology, also apply to students in the Psychology Honors Program. As psychology majors, honors students have a full-time academic advisor available (Dr. Eric Gampher); Room 415 Campbell Hall; Telephone: (205) 934-3850; E-mail: redfox@uab.edu
Contact
For more information and an application for admission to the Psychology Honors Program, see the undergraduate psychology web site at http://www.uab.edu/cas/psychology/undergraduate. You can also contact the Honors Program Director at the Department of Psychology, Campbell Hall, Room 415, Birmingham, AL 35294-1170; Telephone: (205) 934-0231; E-mail: mgcrowe@uab.edu

Department of Social Work
Chair: Dr. William Cockerham

The baccalaureate social work program, fully accredited by the Council on Social Work Education, prepares graduates for employment at the beginning level of professional social work practice as well as for graduate-level professional education. The mission is to educate undergraduate students from a social science perspective in both problem-solving skills and social work values to prepare them for generalist practice with diverse populations in an increasingly complex and interconnected world, emphasizing social and economic justice for populations at risk. The program encourages social work career development through affiliation with professional organizations, pursuit of graduate education, and involvement in continuing education.

Required course work includes acquisition of social work knowledge, values, and skills essential to social work practice, research, and policy. The curriculum culminates with a full-time, one-term field practicum.

No minor is required for social work majors. Instead, selected social and behavioral science courses provide a foundation for the professional courses. These foundation courses include:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>3</td>
</tr>
<tr>
<td>HY 121 or EC 211</td>
<td>3</td>
</tr>
<tr>
<td>or EC 211</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>3</td>
</tr>
<tr>
<td>PSC 101 or PSC 221</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>3</td>
</tr>
<tr>
<td>Approved minority studies course</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed with a grade of C or better. Additionally, students are required to take at least one biology course and laboratory that includes content about human beings (BY 102 or BY 123), also completed with a grade of C or better. This requirement may be taken as part of the Core Curriculum.

Major Requirements for Social Work

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Social Work Courses</td>
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</tr>
<tr>
<td>SW 100 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 200 Professional Writing for Human Service Professionals</td>
<td>2</td>
</tr>
<tr>
<td>SW 203 Social Welfare History</td>
<td>3</td>
</tr>
<tr>
<td>SW 222 Values Laboratory/SL</td>
<td>4</td>
</tr>
<tr>
<td>SW 302 Social Welfare Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SW 313 Human Behavior and The Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SW 314 Human Behavior in the Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SW 320 Introduction to Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SW 321 Statistics for Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>SW 322 Social Work Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SW 422 Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 490 Practicum in Social Work/SL</td>
<td>9</td>
</tr>
<tr>
<td>SW 494 Practicum Seminar</td>
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</table>

Social Work Elective
Select three hours from SW courses
Total Hours 49

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Social Work

<table>
<thead>
<tr>
<th>Freshman</th>
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<tbody>
<tr>
<td>First Term</td>
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<tr>
<td></td>
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<tr>
<td>Hours Second Term</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>EH 101                      3 EH 102                                      3</td>
</tr>
<tr>
<td>MA 110                      3 HY 121                                      3</td>
</tr>
<tr>
<td>HY 120                      3 SOC 100                                      3</td>
</tr>
<tr>
<td>PY 101                      3 SW 100                                      3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art1</td>
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<tr>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities</td>
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<td>Total Hours 15</td>
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<table>
<thead>
<tr>
<th>Sophomore</th>
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<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>Hours Second Term</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SW 200                      2 CS 101                                      3</td>
</tr>
<tr>
<td>SW 203                      3 SW 222                                      4</td>
</tr>
<tr>
<td>BY 101 &amp; BY 102              4 ANTH 101</td>
</tr>
<tr>
<td>EC 110 or 211                3 Core Curriculum Area III: Natural Science with Laboratory</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature2</td>
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<tr>
<td>Core Curriculum Area II: Humanities or Fine Art</td>
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<td>Total Hours 17</td>
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<table>
<thead>
<tr>
<th>Junior</th>
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<tbody>
<tr>
<td>First Term</td>
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<td></td>
</tr>
<tr>
<td>Hours Second Term</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PSC 101 or 221                3 SW 302                                      3</td>
</tr>
<tr>
<td>General Electives             9 SW 313                                      3</td>
</tr>
<tr>
<td>Minority Studies3             3 SW 322                                      4</td>
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<tr>
<td></td>
</tr>
<tr>
<td>SW 320                      3 SW 320                                      3</td>
</tr>
<tr>
<td>General Elective             3 SW 320                                      3</td>
</tr>
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<td>Total Hours 16</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
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<tr>
<td></td>
</tr>
<tr>
<td>Hours Second Term</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SW 314                      3 SW 490                                      9</td>
</tr>
<tr>
<td>SW 321 or SOC 410             3 SW 494                                      3</td>
</tr>
<tr>
<td>SW 422                      3 SW 494                                      3</td>
</tr>
<tr>
<td>Social Work (SW) Elective                                               3</td>
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</table>

Minority Studies
department of social work
Minor Requirements for Social Work

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Social Work</td>
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</tr>
<tr>
<td>SW 100 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>Social Work Electives</td>
<td>15</td>
</tr>
<tr>
<td>Select fifteen hours from SW courses</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

Grade Requirement

A C or better is required in all courses applied to the minor.

Department of Sociology

Chair: William Cockerham

The Department offers two approaches for a major in sociology: 1. General Sociology 2. Social Psychology Concentration in Sociology. Minors are offered in Medical Sociology, Social Psychology, and General Sociology.

Sociology is the scientific study of human social behavior, from the smallest group interactions to the broadest and most complex social processes. As a social science, the discipline analyzes the patterns of behavior in all types of social relationships. This field has broad scope and relevance. The undergraduate program in general sociology is designed to complement UAB’s location in a large metropolitan area with a major medical center. Such a location provides an excellent laboratory for study in several areas, including medical sociology, aging, social psychology, social inequality, and urban sociology. Students may choose from several courses in each of these areas. A significant number of courses are available in medical and health-related sociology.

The social psychology concentration provides a perspective on interpersonal relationships that draws on research conducted by sociologists and psychologists. In the broadest sense, social psychology is the study of how people’s behaviors and thoughts influence, and are influenced by, the actions of others. As a field of study, social psychology has typically focused on the study of persons in face-to-face situations and small group settings.

The central goal of both general sociology and the social psychology concentration is to provide students with a solid foundation in the basic tools of the discipline: statistical analysis, research methodology, and theoretical frameworks.

General sociology offers training for four basic types of careers. First, it provides a broad background for students who are not planning a career in sociology but who want an understanding of the nature and development of social structures and social issues—knowledge that can be applied to a variety of occupations and careers. Second, it offers valuable preparation for professional careers in the social services. Third, it serves as useful pre-professional training for careers such as the health professions, law, business, education, government, and even architecture. Finally, the program helps prepare students for graduate study in sociology and other social sciences.

The social psychology concentration prepares students for careers in service-oriented fields such as health professions, education, business, and government, and graduate work in social psychology.

Graduate Program

For information on the graduate program in sociology, please consult the Department of Sociology or the UAB Graduate School Catalog.

Major Requirements for Sociology (p. 194)

Major Requirements for Sociology with a Social Psychology Concentration (p. 194)

Major Requirements for Sociology

Grade and Level Requirement

• A grade of "C" or better is required in all Sociology courses.
• SOC 489 must be completed at UAB. A total of 9 hours at 400+ must be taken in residence at UAB. Transfer students must earn at least 12 semester hours in residence.

Requirements for a Major in Sociology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements</td>
<td></td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 410 Social Statistics</td>
<td>4</td>
</tr>
<tr>
<td>SOC 489 The Research Experience</td>
<td>4</td>
</tr>
<tr>
<td>Theory Requirement</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>SOC 405 Mind, Self and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 407 Development of Sociological Theory</td>
<td></td>
</tr>
<tr>
<td>SOC 415 Social Stratification</td>
<td></td>
</tr>
<tr>
<td>Sociology Electives</td>
<td></td>
</tr>
<tr>
<td>Select 21 hours in Sociology (SOC) courses. Nine of these hours must be at the 200-level or above, and nine hours at the 300-level or above.</td>
<td>21</td>
</tr>
<tr>
<td>Total Hours</td>
<td>35</td>
</tr>
</tbody>
</table>

Additional Requirement

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Social Psychology Concentration in the Sociology Major

To qualify for a B.A. degree in sociology with a concentration in social psychology, a student must complete a minimum of 35 semester hours as listed below. SOC 489 must be completed at UAB. A total of 9 hours at 400+ must be taken in residence at UAB. Transfer students must earn at
least 12 semester hours in residence. A grade of C or better is required in all courses applied toward the major, including transfer courses. The 35-semester-hour B.A. program in social psychology is distributed as follows:

Requirements for a Major in Sociology with a Social Psychology Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 120 Introduction to Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 410 Social Statistics</td>
<td>4</td>
</tr>
<tr>
<td>SOC 489 The Research Experience</td>
<td>4</td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 372 Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Theory Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>SOC 405 Mind, Self and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 407 Development of Sociological Theory</td>
<td></td>
</tr>
<tr>
<td>SOC 415 Social Stratification</td>
<td></td>
</tr>
<tr>
<td><strong>Psychology Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
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</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 319 Psychopathology and Culture</td>
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</tr>
<tr>
<td><strong>Sociology Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select three of the following courses, with at least two at the 300-level or higher.</td>
<td>9</td>
</tr>
<tr>
<td>SOC 130 Intimate Relationships and the Family</td>
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</tr>
<tr>
<td>SOC 135 Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOC 220 Sociology of Sex and Gender</td>
<td></td>
</tr>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 280 Introduction to Medical Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 283 The Sociology of Mental Health</td>
<td></td>
</tr>
<tr>
<td>SOC 285 Introduction to Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 323 Social Structure and Personality</td>
<td></td>
</tr>
<tr>
<td>SOC 340 Deviant Behavior</td>
<td></td>
</tr>
<tr>
<td>SOC 383 Drugs and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 385 Social Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 445 Biology and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 455 Minority Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 456 Death and Dying</td>
<td></td>
</tr>
<tr>
<td>SOC 457 Family Relations over the Life Course</td>
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</tr>
<tr>
<td>SOC 469 Sociology of Aging</td>
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</tr>
<tr>
<td>SOC 480 Sociology of Health and Illness</td>
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<td>SOC 482 Gender and Health</td>
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</table>

**Total Hours** 35

Proposed Program of Study for a Major in Social Psychology

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<thead>
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<th>Freshman</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
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<tr>
<td>MA 110</td>
<td>3 Core Curriculum Area IV: History 1</td>
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<td></td>
</tr>
<tr>
<td>SOC 100</td>
<td>3 Core Curriculum Area II: Humanities</td>
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<td></td>
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</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 120</td>
<td>3 Core Curriculum Area III: Social and Behavioral Science</td>
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<tr>
<td>Sociology (SOC) 200-level and above</td>
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</tr>
<tr>
<td>Core Curriculum Area II: Literature 3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science with Lab</td>
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<tr>
<td>Minor</td>
<td>3 Minor</td>
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<tr>
<td>General Elective</td>
<td>6 General Electives</td>
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**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>SOC 489</td>
<td>4 Sociology (SOC) 300-level and above</td>
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<td>Sociology (SOC) 300-level and above</td>
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<tr>
<td>Minor</td>
<td>3 Minor</td>
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<tr>
<td>General Electives</td>
<td>6 General Elective</td>
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**Senior**

<table>
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<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 100</td>
<td>3 Core Curriculum Area IV: History 1</td>
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<tr>
<td>Core Curriculum Area IV: Humanities</td>
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</table>

**Total credit hours: 125**

1 Select One: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2 Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3 Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.
4 SOC 410 or one of the following SOC 405, SOC 407 or SOC 415
Core Curriculum Area II: Fine Art  
2  
15  
15  

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SOC 120</td>
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<td>PY 372</td>
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<tr>
<td>Core Curriculum Area II: Literature 2</td>
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<td>Core Curriculum Area II: Humanities</td>
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<tr>
<td>Core Curriculum Area III: Natural Science with Laboratory</td>
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<tr>
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<td>General Elective</td>
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<td>General Elective</td>
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<td></td>
<td><strong>16</strong></td>
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### Junior

<table>
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<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>Social Statistics or Social Theory 4</td>
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<td>Social Statistics or Social Theory 4</td>
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</tr>
<tr>
<td>Sociology (SOC) 300-level and above</td>
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<td>Sociology (SOC) 300-level and above</td>
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<tr>
<td>Minor</td>
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<td>General Elective</td>
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<tr>
<td>General Elective</td>
<td>6</td>
<td>General Elective</td>
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<tr>
<td></td>
<td><strong>16</strong></td>
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### Senior

<table>
<thead>
<tr>
<th>First Term</th>
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<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 489</td>
<td>4</td>
<td>Social Psychology Major</td>
<td>3 (Select One)</td>
</tr>
<tr>
<td>Sociology (SOC) Elective</td>
<td>3</td>
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<td></td>
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<tr>
<td>Minor</td>
<td>3</td>
<td>PY 218</td>
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<td>General Electives</td>
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<td>PY 319</td>
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<tr>
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<td><strong>16</strong></td>
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<td><strong>16</strong></td>
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</tbody>
</table>

Total credit hours: 122

1. Select One: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3. Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.
4. SOC 410 or one of the following SOC 405, SOC 407 or SOC 415.

### General Sociology Minor

#### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SOC 100 Introduction to Sociology 1</td>
<td>3</td>
</tr>
<tr>
<td>Sociology Electives</td>
<td>15</td>
</tr>
</tbody>
</table>

Select 15 hours from Sociology (SOC) courses, with at least nine hours at the 300-level or above. 2

Total Hours 18

1. SOC 100 Introduction to Sociology may also be eligible to count toward Core Curriculum Area IV.
2. SOC 245 will count toward this requirement, and may also be eligible to count toward Core Curriculum Area IV.

### Grade & Residency Requirement

A "C" or better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.

### Medical Sociology Minor

Medical sociology focuses on study of the social causes and consequences of health and illness. In addition, it analyzes health organizations and institutions, the social behavior of health personnel and consumers of health care, as well as international patterns of health services. It is a particularly relevant minor for students preparing for a career in a health profession such as medicine, nursing, dentistry, or optometry.

A grade of “C” or Better is required for all courses within the Medical Sociology Minor.

### Minor Requirements for Medical Sociology

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 280 Introduction to Medical Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 283 The Sociology of Mental Health</td>
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**Social Diversity and Inequality**

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 220 Sociology of Sex and Gender</td>
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</tr>
<tr>
<td>SOC 250 Race and Ethnic Relations</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 385 Social Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 415 Social Stratification</td>
<td></td>
</tr>
</tbody>
</table>

**Health-Related Issues and Problems**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 370 Population Problems</td>
<td></td>
</tr>
<tr>
<td>SOC 383 Drugs and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 456 Death and Dying</td>
<td></td>
</tr>
<tr>
<td>SOC 472 Homelessness: Causes and Consequences</td>
<td></td>
</tr>
<tr>
<td>SOC 480 Sociology of Health and Illness</td>
<td></td>
</tr>
<tr>
<td>SOC 482 Gender and Health</td>
<td></td>
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</tbody>
</table>

**Elective**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 435 Ethnomedicine and Ethnopsychiatry</td>
<td></td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 305 Medical Psychology</td>
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</tr>
<tr>
<td>SOC 135 Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
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</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 370 Population Problems</td>
<td></td>
</tr>
<tr>
<td>SOC 383 Drugs and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 445 Biology and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 455 Minority Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 456 Death and Dying</td>
<td></td>
</tr>
<tr>
<td>SOC 472 Homelessness: Causes and Consequences</td>
<td></td>
</tr>
</tbody>
</table>

Grade & Residency Requirement

A "C" or better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.

### Medical Sociology Minor

Medical sociology focuses on study of the social causes and consequences of health and illness. In addition, it analyzes health organizations and institutions, the social behavior of health personnel and consumers of health care, as well as international patterns of health services. It is a particularly relevant minor for students preparing for a career in a health profession such as medicine, nursing, dentistry, or optometry.

A grade of “C” or Better is required for all courses within the Medical Sociology Minor.

### Minor Requirements for Medical Sociology

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 280 Introduction to Medical Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 283 The Sociology of Mental Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social Diversity and Inequality**

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 220 Sociology of Sex and Gender</td>
<td></td>
</tr>
<tr>
<td>SOC 250 Race and Ethnic Relations</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 385 Social Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 415 Social Stratification</td>
<td></td>
</tr>
</tbody>
</table>

**Health-Related Issues and Problems**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 370 Population Problems</td>
<td></td>
</tr>
<tr>
<td>SOC 383 Drugs and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 456 Death and Dying</td>
<td></td>
</tr>
<tr>
<td>SOC 472 Homelessness: Causes and Consequences</td>
<td></td>
</tr>
<tr>
<td>SOC 480 Sociology of Health and Illness</td>
<td></td>
</tr>
<tr>
<td>SOC 482 Gender and Health</td>
<td></td>
</tr>
</tbody>
</table>

**Elective**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 435 Ethnomedicine and Ethnopsychiatry</td>
<td></td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 305 Medical Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 135 Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 370 Population Problems</td>
<td></td>
</tr>
<tr>
<td>SOC 383 Drugs and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 445 Biology and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 455 Minority Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 456 Death and Dying</td>
<td></td>
</tr>
<tr>
<td>SOC 472 Homelessness: Causes and Consequences</td>
<td></td>
</tr>
</tbody>
</table>
SOC 480  Sociology of Health and Illness
SOC 482  Gender and Health
SOC 490  Independent Study: Sociology 1

Total Hours 18

1 Must choose three of the following: Minority Women’s Health, Women's Health, Health and Violence, Human Trafficking, Adolescent Pregnancy, Women and Reproduction, or Women and Sexuality

**Grade and Residency Requirement**
Transfer students must take at least 6 semester hours in sociology at UAB including at least 3 semester hours in courses numbered above 300. A grade of C or better is required in all courses applied toward the minor, including transfer courses.

**Minor Requirements for Social Psychology**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introductory Sociology Courses</strong></td>
<td></td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology 1</td>
<td>3</td>
</tr>
<tr>
<td>SOC 120 Introduction to Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Psychology Electives</strong></td>
<td>12</td>
</tr>
<tr>
<td>Select four of the following courses, with at least three at the 300-level or above:</td>
<td></td>
</tr>
<tr>
<td>PY 212 Developmental Psychology 2</td>
<td></td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 319 Psychopathology and Culture</td>
<td></td>
</tr>
<tr>
<td>PY 372 Social Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 130 Intimate Relationships and the Family</td>
<td></td>
</tr>
<tr>
<td>SOC 135 Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOC 220 Sociology of Sex and Gender</td>
<td></td>
</tr>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 280 Introduction to Medical Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 283 The Sociology of Mental Health</td>
<td></td>
</tr>
<tr>
<td>SOC 285 Introduction to Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 323 Social Structure and Personality</td>
<td></td>
</tr>
<tr>
<td>SOC 340 Deviant Behavior</td>
<td></td>
</tr>
<tr>
<td>SOC 383 Drugs and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 385 Social Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 405 Mind, Self and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 445 Biology and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 456 Death and Dying</td>
<td></td>
</tr>
<tr>
<td>SOC 457 Family Relations over the Life Course</td>
<td></td>
</tr>
<tr>
<td>SOC 469 Sociology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 480 Sociology of Health and Illness</td>
<td></td>
</tr>
<tr>
<td>SOC 482 Gender and Health</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 18

1 SOC 100 Introduction to Sociology may also be eligible to count toward Core Curriculum Area IV.
2 PY 212 Developmental Psychology may also be eligible to count toward Core Curriculum Area IV.

**Grade & Residency Requirement**
A “C” or better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.

**Honors Program in Sociology**

**Goal**
The Sociology Honors Program is designed to help prepare outstanding undergraduate majors for graduate study in sociology or a career in medical sociology. The program offers a mentored research experience, and under faculty supervision, students will be exposed to a wide range of sociological perspectives and research areas.

**Eligibility**
Acceptance into the Sociology Honors Program requires the following:

- Completion of the required sociology courses including Introduction to Sociology, Theory, Research Methods and Statistics (by the end of the fall term of the year the student enters the honor’s program).
- An undergraduate cumulative GPA of 3.00 or above.
- A junior or senior level standing (admittance to Honors Program must take place before August 1).
- A cumulative GPA in Sociology courses of 3.3 or above.

**Requirements**
The following is required to graduate with honors in the Sociology Honors Program:

- Completion of the required sociology courses.
- Completion of two-semester Honors seminar 498/499.
- Completion of a senior-level thesis or Service Learning Project or Research Project under faculty supervision.

**Benefits**
Participation in the Sociology Honors Program provides a unique opportunity for highly motivated, academically talented undergraduate students to have access to and interact with faculty in an environment that encourages creativity and independent scholarship. Seminar participation and research experience will be important to nurturing the student’s sociological imagination. Completion of the Honors Program is an advantage when applying to graduate school or looking for employment in an appropriate discipline-oriented field. Finally, students who complete the program will graduate “With Honors in Sociology.”

**Contact**
For additional information and/or admission to the Sociology Honors Program, contact:

The Director of Undergraduate Programs
Department of Sociology
460H Heritage Hall Bldg
Birmingham, AL 35294-1152
Telephone: (205) 934-3307
The Department of Theatre holds the philosophy that classroom study and practical experience are of equal and complementary value. A wide array of courses related to the performing arts and film are taught in well-equipped studios and smart classrooms. Production opportunities are available in state-of-the-art production facilities, the Morris K. Sirote Theatre and the Odess Theatre in the Alys Robinson Stephens Performing Arts Center.

The Department of Theatre offers a major and minor in theatre with three concentrations in the major: general theatre, pre-professional performance and pre-professional design and production. An Individually Designed Major (IDM) in Film Production is also offered. Students are expected to maintain grades, participate in department productions, and to be professional both in attitude and actions while representing the department. Failure to do so will lead to the loss of stipend and/or scholarship support and loss of practical opportunities in the program.

Theatre faculty provide individual advising to help students matriculate and achieve their academic and professional goals. For more information, call (205) 934-3236.

Scholarships, Stipends, and Other Financial Aid

In addition to university financial aid, stipends and scholarships are available through the Department of Theatre to qualified students. Students awarded Theatre stipends and scholarships must remain active in department activities and must complete their core requirements in a timely fashion. Department scholarships require an overall GPA of 2.5 and a 3.0 GPA for all Theatre courses. Students with department stipends must maintain an overall GPA of 2.25. For additional information concerning departmental financial aid, call (205) 934-3236.

Theatre Major

Theatre majors may choose from three concentrations. All three concentrations share a common core. The general concentration provides a student with a well-rounded education in all areas of theatre. The pre-professional performance concentration focuses on actor training, with an emphasis on movement and vocal training. The pre-professional design and production concentration focuses on developing design and technology skills in the areas of scenery, costume, lighting and audio. The department also offers an honors program for qualified students. All three tracks share a common 27 hour theatre core.

Theater Major Requirements: General Theater Concentration

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THR 154 Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THR 160 Theatre Cornerstone</td>
<td>1</td>
</tr>
<tr>
<td>THR 210 Introduction to Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>THR 365 Directing I</td>
<td>3</td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td>3</td>
</tr>
<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
<td>3</td>
</tr>
<tr>
<td>THR 491 Theatre Capstone</td>
<td>2</td>
</tr>
</tbody>
</table>

Theatre Design

Select three hours from the following: 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 323</td>
<td>Lighting Design</td>
</tr>
<tr>
<td>THR 325</td>
<td>Theatre Sound Design and Technology</td>
</tr>
<tr>
<td>THR 326</td>
<td>Scenic Design</td>
</tr>
<tr>
<td>THR 327</td>
<td>Costume Design</td>
</tr>
</tbody>
</table>

**Theatre Performance**

Select 6 hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 202</td>
<td>Voice and Movement for the Actor I</td>
</tr>
<tr>
<td>THR 203</td>
<td>Voice and Movement for the Actor II</td>
</tr>
<tr>
<td>THR 254</td>
<td>Intermediate Acting</td>
</tr>
<tr>
<td>THR 258</td>
<td>Musical Theatre Performance I</td>
</tr>
<tr>
<td>THR 318</td>
<td>Modern Stage Combat</td>
</tr>
<tr>
<td>THR 355</td>
<td>Advanced Acting</td>
</tr>
<tr>
<td>THR 377</td>
<td>Acting for the Camera</td>
</tr>
<tr>
<td>THR 465</td>
<td>Directing II</td>
</tr>
</tbody>
</table>

**Theatre Writing**

Select three hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 200</td>
<td>Plays on Film</td>
</tr>
<tr>
<td>THR 215</td>
<td>Playwriting I</td>
</tr>
<tr>
<td>THR 216</td>
<td>Screenwriting I</td>
</tr>
<tr>
<td>THR 300</td>
<td>Exploring the African-American Creative Experience</td>
</tr>
<tr>
<td>THR 350</td>
<td>Costume History and Period Style for the Theatre</td>
</tr>
</tbody>
</table>

**Theatre Practicum**

Complete 3 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 204</td>
<td>Beginning Production Practicum</td>
</tr>
<tr>
<td>THR 205</td>
<td>Beginning Performance Practicum</td>
</tr>
</tbody>
</table>

**Theatre Electives**

Select six hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 105</td>
<td>Introduction to Dance</td>
</tr>
<tr>
<td>THR 106</td>
<td>Jazz I</td>
</tr>
<tr>
<td>THR 107</td>
<td>Tap I</td>
</tr>
<tr>
<td>THR 200</td>
<td>Plays on Film</td>
</tr>
<tr>
<td>THR 202</td>
<td>Voice and Movement for the Actor I</td>
</tr>
<tr>
<td>THR 203</td>
<td>Voice and Movement for the Actor II</td>
</tr>
<tr>
<td>THR 204</td>
<td>Beginning Production Practicum</td>
</tr>
<tr>
<td>THR 206</td>
<td>Jazz II</td>
</tr>
<tr>
<td>THR 207</td>
<td>Tap II</td>
</tr>
<tr>
<td>THR 215</td>
<td>Playwriting I</td>
</tr>
<tr>
<td>THR 216</td>
<td>Screenwriting I</td>
</tr>
<tr>
<td>THR 226</td>
<td>Drawing and Rendering for the Theatre</td>
</tr>
<tr>
<td>THR 230</td>
<td>Stage Management</td>
</tr>
<tr>
<td>THR 254</td>
<td>Intermediate Acting</td>
</tr>
<tr>
<td>THR 300</td>
<td>Exploring the African-American Creative Experience</td>
</tr>
<tr>
<td>THR 315</td>
<td>Playwriting II</td>
</tr>
<tr>
<td>THR 316</td>
<td>Screenwriting II</td>
</tr>
<tr>
<td>THR 318</td>
<td>Modern Stage Combat</td>
</tr>
<tr>
<td>THR 323</td>
<td>Lighting Design</td>
</tr>
<tr>
<td>THR 325</td>
<td>Theatre Sound Design and Technology</td>
</tr>
<tr>
<td>THR 326</td>
<td>Scenic Design</td>
</tr>
<tr>
<td>THR 327</td>
<td>Costume Design</td>
</tr>
<tr>
<td>THR 350</td>
<td>Costume History and Period Style for the Theatre</td>
</tr>
<tr>
<td>THR 355</td>
<td>Advanced Acting</td>
</tr>
<tr>
<td>THR 360</td>
<td>Theatre Internship</td>
</tr>
<tr>
<td>THR 377</td>
<td>Acting for the Camera</td>
</tr>
<tr>
<td>THR 404</td>
<td>Advanced Production Practicum</td>
</tr>
<tr>
<td>THR 405</td>
<td>Advanced Performance Practicum</td>
</tr>
<tr>
<td>THR 455</td>
<td>Advanced Studio in Performance</td>
</tr>
</tbody>
</table>

**Major Requirements for Theatre with Pre-Professional Design & Technology Concentration**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THR 154 Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THR 160 Theatre Cornerstone</td>
<td>1</td>
</tr>
<tr>
<td>THR 210 Introduction to Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>THR 365 Directing I</td>
<td>3</td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td>3</td>
</tr>
<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
<td>3</td>
</tr>
<tr>
<td>THR 491 Theatre Capstone</td>
<td>2</td>
</tr>
</tbody>
</table>

**Theatre Practicum**

Complete three hours:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 204</td>
<td>Beginning Production Practicum</td>
</tr>
<tr>
<td>THR 205</td>
<td>Beginning Performance Practicum</td>
</tr>
</tbody>
</table>

**Design & Technology Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 226</td>
<td>Drawing and Rendering for the Theatre</td>
</tr>
<tr>
<td>THR 350</td>
<td>Costume History and Period Style for the Theatre</td>
</tr>
</tbody>
</table>

**Design & Technology Electives**

Select six hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 325</td>
<td>Theatre Sound Design and Technology</td>
</tr>
<tr>
<td>THR 470</td>
<td>Individual Project in Design and Production</td>
</tr>
<tr>
<td>THR 471</td>
<td>Advanced Studio in Scenery</td>
</tr>
<tr>
<td>THR 472</td>
<td>Advanced Studio in Costumes</td>
</tr>
<tr>
<td>THR 473</td>
<td>Advanced Studio in Lighting</td>
</tr>
<tr>
<td>THR 474</td>
<td>Advanced Studio in Audio</td>
</tr>
</tbody>
</table>

1. One hour may be THR 205 performance, two hours must be technical THR 204.
2. Students may NOT apply THR 105 or THR 200 toward both this requirement and the Core Curriculum Area II requirement.
## Major Requirements for Theatre with Pre-Professional Performance Concentration

<table>
<thead>
<tr>
<th>Requirements Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THR 154 Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THR 160 Theatre Cornerstone</td>
<td>1</td>
</tr>
<tr>
<td>THR 210 Introduction to Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>THR 365 Directing I</td>
<td>3</td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td>3</td>
</tr>
<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
<td>3</td>
</tr>
<tr>
<td>THR 491 Theatre Capstone</td>
<td>2</td>
</tr>
</tbody>
</table>

**Theatre Practicum**

- Complete three hours: 3
  - THR 204 Beginning Production Practicum
  - THR 205 Beginning Performance Practicum

**Performance Requirements**

- THR 210 or 235
- THR 202 Voice and Movement for the Actor I
- THR 203 Voice and Movement for the Actor II
- THR 254 Intermediate Acting
- THR 355 Advanced Acting

**Performance Electives**

Select nine hours from the following: 9

- THR 318 Modern Stage Combat
- THR 377 Acting for the Camera
- THR 405 Advanced Performance Practicum
- THR 455 Advanced Studio in Performance
- THR 465 Directing II

Total Hours 51

1 One hour must be THR 205, two hours must be THR 204.

## Proposed Program of Study for a Major in Theatre with a General Concentration

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 160</td>
<td>1 THR 210</td>
<td>3</td>
</tr>
<tr>
<td>THR 154</td>
<td>3 THR 124 or 125</td>
<td>3</td>
</tr>
<tr>
<td>THR 124 or 125</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 210 or 235</td>
<td>3 THR 204</td>
<td>1-2</td>
</tr>
<tr>
<td>THR 204</td>
<td>1 Performance Component</td>
<td>3</td>
</tr>
<tr>
<td>Performance Component 1</td>
<td>3 Writing Component</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>7-8</td>
</tr>
</tbody>
</table>

### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 365</td>
<td>3 THR 204</td>
<td>1-2</td>
</tr>
<tr>
<td>THR 204</td>
<td>1 THR 365 (or Design Component)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credit hours: 49-51

1 Performance Component - Select six hours from the following courses: THR 202, THR 203, THR 254, THR 318, THR 355, THR 377 or THR 465.

2 Writing Component - Select three hours from the following: THR 200, THR 215, THR 216, THR 300, and THR 350.

3 Theatre History - Six required hours (do not have to be taken in sequence): THR 481 and THR 482.

4 Design Component - Select three hours from the following: THR 323, THR 325, THR 326, or THR 327.

5 Theatre Electives - Select six hours from the approved list of Theatre Electives for the General Concentration.

## Proposed Program of Study for a Theatre Major with a Concentration in Design and Production

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 160</td>
<td>1 THR 210</td>
<td>3</td>
</tr>
<tr>
<td>THR 124 or 125</td>
<td>3 THR 210 or 235</td>
<td>3</td>
</tr>
<tr>
<td>THR 154</td>
<td>3</td>
<td>7</td>
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<tr>
<td></td>
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### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>THR 204</td>
<td>1-2 THR 204</td>
<td>1-2</td>
</tr>
<tr>
<td>THR 226</td>
<td>3 THR 326 or 327</td>
<td>3</td>
</tr>
<tr>
<td>THR 210 or 235</td>
<td>3</td>
<td>7-8</td>
</tr>
<tr>
<td></td>
<td>4-5</td>
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### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>THR 323</td>
<td>3 THR 204</td>
<td>1-2</td>
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<tr>
<td>THR 327</td>
<td>3 THR 326 or 327</td>
<td>3</td>
</tr>
<tr>
<td>Theatre History 1</td>
<td>3 Theatre History 1</td>
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<tr>
<td></td>
<td>9</td>
<td>7-8</td>
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</table>

### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre Elective 2</td>
<td>3 THR 365</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THR 491</td>
<td>2</td>
</tr>
<tr>
<td>Theatre Elective 2</td>
<td>3 Theatre Elective 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total credit hours: 51-54

1 Theatre History - Six required hours (Do not have to take in sequence): THR 481 and THR 482.
2 Design & Production Electives - Select six hours from the following:
THR 325, THR 470, THR 472, THR 474, THR 471, THR 473, or
THR 474

Proposed Program of Study for a Major in Theatre with a Concentration in Theatre Performance

Freshman
First Term Hours Second Term Hours
THR 160 1 THR 124 or 125 3
THR 124 or 125 3
THR 154 3
7 3

Sophomore
First Term Hours Second Term Hours
THR 235 3 THR 254 3
THR 202 3 THR 204 1-2
THR 204 1-2 THR 210 3
7-8 7-8

Junior
First Term Hours Second Term Hours
THR 365 3 THR 355 3
THR 204 1-2 THR 318 3
THR 203 3 Theatre History 1
Theatre History 1 3
10-11 9

Senior
First Term Hours Second Term Hours
THR 377 or 465 3 THR 491 2
3 2

Total credit hours: 48-51

1 Theatre History - Six required hours. (Do not have to take in sequence): THR 481 and THR 482.

Minor Requirements for Theatre

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Theatre</td>
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</tr>
<tr>
<td>THR 154 Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THR 210 Introduction to Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>Theatre Technology</td>
<td></td>
</tr>
<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
<td>3</td>
</tr>
<tr>
<td>Theatre History</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td>3</td>
</tr>
<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
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</tr>
<tr>
<td>Theatre Electives</td>
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</tr>
<tr>
<td>Select six hours from the following:</td>
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<tr>
<td>THR 106 Jazz I</td>
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<tr>
<td>THR 107 Tap I</td>
<td></td>
</tr>
<tr>
<td>THR 202 Voice and Movement for the Actor I</td>
<td></td>
</tr>
<tr>
<td>THR 203 Voice and Movement for the Actor II</td>
<td></td>
</tr>
<tr>
<td>THR 204 Beginning Production Practicum</td>
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<tr>
<td>THR 205 Beginning Production Practicum</td>
<td></td>
</tr>
<tr>
<td>THR 206 Jazz II</td>
<td></td>
</tr>
<tr>
<td>THR 207 Tap II</td>
<td></td>
</tr>
<tr>
<td>THR 215 Playwriting I</td>
<td></td>
</tr>
<tr>
<td>THR 216 Screenwriting I</td>
<td></td>
</tr>
<tr>
<td>THR 226 Drawing and Rendering for the Theatre</td>
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<tr>
<td>THR 230 Stage Management</td>
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<tr>
<td>THR 254 Intermediate Acting</td>
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<tr>
<td>THR 300 Exploring the African-American Creative Experience</td>
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<tr>
<td>THR 315 Playwriting II</td>
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</tr>
<tr>
<td>THR 316 Screenwriting II</td>
<td></td>
</tr>
<tr>
<td>THR 318 Modern Stage Combat</td>
<td></td>
</tr>
<tr>
<td>THR 323 Lighting Design</td>
<td></td>
</tr>
<tr>
<td>THR 325 Theatre Sound Design and Technology</td>
<td></td>
</tr>
<tr>
<td>THR 326 Scenic Design</td>
<td></td>
</tr>
<tr>
<td>THR 327 Costume Design</td>
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</tr>
<tr>
<td>THR 350 Costume History and Period Style for the Theatre</td>
<td></td>
</tr>
<tr>
<td>THR 355 Advanced Acting</td>
<td></td>
</tr>
<tr>
<td>THR 365 Directing I</td>
<td></td>
</tr>
<tr>
<td>THR 377 Acting for the Camera</td>
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</tr>
<tr>
<td>THR 404 Advanced Production Practicum</td>
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</tr>
<tr>
<td>THR 420 Teaching Theatre in the Secondary School</td>
<td></td>
</tr>
<tr>
<td>THR 455 Advanced Studio in Performance</td>
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</tr>
<tr>
<td>THR 462 Special Workshop</td>
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</tr>
<tr>
<td>THR 465 Directing II</td>
<td></td>
</tr>
<tr>
<td>THR 470 Individual Project in Design and Production</td>
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</tr>
<tr>
<td>THR 471 Advanced Studio in Scenery</td>
<td></td>
</tr>
<tr>
<td>THR 472 Advanced Studio in Costumes</td>
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<tr>
<td>THR 473 Advanced Studio in Lighting</td>
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</tr>
<tr>
<td>THR 474 Advanced Studio in Audio</td>
<td></td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td></td>
</tr>
<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 24

Note: A course may not be used to satisfy this requirement and the core curriculum.

Honors Program in Theatre

Purpose
The Theatre Honors Program is designed for outstanding students majoring in Theatre. Through mentored work on an individually developed creative project or research topic, students will develop skills in preparation for graduate school or a professional career.

Eligibility
Acceptance into the Theatre Honors Program requires the student to:

• Be a Theatre major.
• Have earned a 3.5 GPA in Theatre courses attempted.
• Have earned a 3.0 GPA overall.
• Have completed:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THR 154 Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THR 210 Introduction to Theatrical Design</td>
<td></td>
</tr>
<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
<td>3</td>
</tr>
</tbody>
</table>
• Have completed 60 hours toward the BA degree.
• Have completed at least two UAB Theatre production practicum.

Requirements
• Completion of required courses for the Theatre major.
• Arrangement with a faculty mentor for a creative or research project.
• Submission of a formal project proposal to the faculty mentor and the Honor's committee.
• Registration for 3 credit hours of .
• Public presentation of the honors project.
• Acceptance of the completed project by the faculty mentor and the Honor's committee.
• Submission of an archival copy of the project to the Theatre Department.

Benefits
In addition to the educational benefits of working on a mentored, individually designed project, honors majors receive a certificate at the Spring UAB Honors Convocation and will graduate "With Honors in Theatre."

Contact
For more information and/or admission to the Theatre Honors Program, please contact:

Kelly Allison, Chair
Department of Theatre
ASC 255
(205) 934-8676
kallison@uab.edu
Honors College

The UAB Honors College offers multiple challenging and engaging educational opportunities students from all academic disciplines. The mission of the Honors College is to build on current UAB strengths while focusing on creating increased opportunities for intellectually-curious students. Specifically, the Honors College focuses on preparing students to communicate effectively in written and oral form, demonstrate critical thinking skills, integrate knowledge across domains, participate effectively in team endeavors, and function as ethical citizens of communities.

All Honors College Scholars have the opportunity to custom-design an honors curriculum to match their own academic interests using a combination of the following resources:

- Smaller class sizes and honors sections of courses
- Innovative first-year learning communities
- Departmental (major-specific) honors programs
- Academic enrichment (undergraduate research, study away, internships, and service-learning)

The Honors College also houses four signature programs in interdisciplinary arts and sciences, science and technology, global and community leadership, and experiential learning. Students may only apply to these signature programs after being admitted to the UAB Honors College. To learn more about gaining admission to the Honors College or its programs, visit http://www.uab.edu/honorscollege/.

Benefits:

All Honors College students have access to the following resources:

- Priority registration
- First-year honors residence life communities
- Enhanced academic advising
- Exclusive access to Honors facilities for studying and socializing
- Unique and challenging curricular and extracurricular activities
- Opportunities in service-learning, study abroad, research, and leadership

Overall, the unique coursework and enhanced experiences in the UAB Honors College provides an exceptional educational experience for highly motivated, intellectually-curious students. The UAB honors experience challenges them to become researchers, professional leaders, and public intellectuals who use their knowledge to make the world a better place.

Contacting the Honors College:

Mailing Address:  
HBB 542  
172 2nd Avenue South  
Birmingham, AL 35294-1152

Physical Address:  
Heritage Hall, Room 542  
1401 University Blvd  
Birmingham, AL 35294

Phone: 205-996-4571

Email: honorscollege@uab.edu

HONORS COLLEGE ADMISSION REQUIREMENTS

Incoming Freshmen:

Entering freshmen who demonstrate the potential for outstanding academic achievement are eligible for admission to the Honors College after they have been admitted to UAB. The standard minimum requirements for admission to the Honors College are:

1. a high school grade point average of 3.5
2. an ACT score of 28 or an SAT of 1260 (critical reading + math only)

To learn more about applying to the Honors College or its signature programs, please visit http://www.uab.edu/honorscollege/.

Current UAB Students:

Students currently enrolled at UAB who have a 3.3 cumulative grade point average are eligible for admission. Interested students should contact the Honors College at 205-996-4571.

Transfer Students:

Students who have been accepted for transfer to UAB with a 3.3 cumulative grade point average may also be eligible for admission. Interested students should contact the Honors College at 205-996-4571.

CONTINUATION IN THE HONORS COLLEGE

All honors students must maintain a 3.0 cumulative GPA. Failure to do so will result in one semester of honors probation. During the probationary semester, the student will not be eligible for priority registration. Students on probation should meet with an honors advisor and consult the UAB Academic Success Center (https://www.uab.edu/students/academics/student-success).

Honors-Level Courses

All Honors College Scholars must complete a minimum of 18 credit hours of honors-level coursework. Students who choose to earn 30 or more honors credits will receive a special designation from the university. Honors credit hours can be earned in any of the following ways:

1. Courses with an HC prefix (ex: HC 110 Honors Freshman Seminar I: Special Topics)
2. Courses offered through a signature honors program with an STH, HON, GCLH, or EL prefix
3. Honors-level course sections offered through academic departments (ex: PY 201 Honors Introduction to Psychology or CH 114 General Chemistry I Laboratory (Honors))
4. Honors by Contract*
5. Courses required for departmental honors programs

*Honors by Contract allows students to augment their experiences in standard courses. Within the first two weeks of the semester, an interested student should meet with a faculty member to devise an honors contract. Contract details vary, but they share a commitment to academic excellence above and beyond the stated minimum requirements for the course. Some faculty may require additional readings, labs, papers, or research. Others may ask students to complete qualitatively different work while maintaining the same quantity of assignments. Once the faculty and student have agreed on the contract,
they both sign an Honors by Contract form which the faculty member submits to the Honors College. Forms are due no later than the third week of the semester the student is enrolled in the course.

**COMMITMENT TO EXCELLENCE**

Honors College admission is a noteworthy achievement, recognizing not only demonstrated academic excellence but also potential for future success. The UAB Honors College is a scholarly community comprised of students, faculty, and staff who commit themselves to high standards of intellectual and personal integrity. As such, honors students should be among the most respectful, hard-working participants in any classroom. They should challenge themselves to think in new ways and to remain open to insight from others. In addition, they should be ethical community members continually looking for ways to serve their peers, the campus, and the local community.

**Experiential Learning Scholars**

Program Manager: Amy N. Atkisson, MAE

The Experiential Learning Scholars Program (ELSP) enhances students’ academic course work with pertinent, real-life experiences (service-learning, internships, undergraduate research, study away, and more). Students create personal learning plans using a combination of six experiential learning endeavors. These experiences are tailored to meet scholars’ academic, career, and personal ambitions.

**Vision**

To be a recognized national leader in integrating experiential learning into honors education by developing students who synthesize and transfer learning to new and complex situations beyond the classroom.

**Mission**

To guide students in meeting individualized academic, personal, and professional goals by empowering them to enhance their classroom learning with individualized, relevant, real-world experiences.

**Values**

- Student Focus
- Empowerment
- Initiative
- Communication
- Accountability/Responsibility
- Honesty/Integrity
- Flexibility/Customizability
- Creativity

**Goals for Experiential Learning Scholars Program Students:**

ELSP students will be able to...

- Adapt and apply skills, abilities, theories and methodologies gained in one situation to new situations to solve difficult problems or explore complex issues in original ways.
- Communicate effectively in a variety of written, oral and visual representations in ways that enhance the meaning and understanding of their ideas.
- Evaluate their own learning over time, interpreting and assessing their performance across multiple and diverse contexts in order to respond to new and challenging contexts, situations, and problems.

**Application**

For more information on applying to the Honors College or its programs, visit [http://www.uab.edu/honorscollege/](http://www.uab.edu/honorscollege/).

**Experiential Learning Scholars Program students are required to:**

- Complete an approved First Year Experience course
- Complete the approved Honors College Leadership seminar course
- Maintain a series of personal essays, yearly learning plans and reflective essays
- Complete at least six approved experiential learning activities (three of these must be completed through a UAB designated service-learning, internship, undergraduate research, honors, or study away course)
- Meet with an ELSP staff member at least once per year to discuss learning plan and program progression
- Develop a portfolio documenting academic and experiential learning activities and maintain updates each semester
- Create and present a senior thesis or capstone project during the senior year

**Continuation in the Program**

An ELSP student must maintain a cumulative 3.0 GPA and make adequate progress towards accomplishing the programmatic requirements listed above. Failure to do so will result in one-semester honors probation. If the student does not make adequate GPA and requirement progress at the end of the probationary period, s/he will be asked to leave the program and/or the Honors College.

**Proposed Program of Study for Experiential Learning Scholars**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>First Term</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>EL 101 or DCS 101</td>
<td>1</td>
<td>3 HC 101</td>
<td>1</td>
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<tr>
<td>EL 399</td>
<td>0</td>
<td>0 EL 199</td>
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<tr>
<td></td>
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<td></td>
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<tr>
<td><strong>Sophomore</strong></td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
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<td><strong>First Term</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>EL 299(^2)</td>
<td>0</td>
<td>0 EL 199</td>
<td>0</td>
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<tr>
<td>EL 399</td>
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<td>0 EL 299(^2)</td>
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<td><strong>Junior</strong></td>
<td>Hours</td>
<td>Second Term</td>
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<td></td>
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<tr>
<td>EL 299(^2)</td>
<td>0</td>
<td>0 EL 199</td>
<td>0</td>
</tr>
</tbody>
</table>

1. Depending on the program's requirements.
Science and Technology Honors Program

Program Director: Diane C. Tucker, Ph.D.
Associate Directors: Joe L. March, Ph.D., and Joel Berry, Ph.D.
Program Manager: Clay Walls, B.A.

The Science and Technology Honors Program at UAB revolutionizes the undergraduate experience. Acceptance to the program places students in the company of fellow scholars and world-renowned researchers. Science and Technology Honors (STH) students take part in unique academic and research experiences specifically designed to give them a head start on a scientific or technical career.

This unique program is the only one of its kind in Alabama. It is designed for the best and brightest students whose academic and extracurricular achievements demonstrate intellectual curiosity, energy, creativity, and leadership abilities. As a graduate of the STH Program, a student is well prepared for graduate and professional school.

Mission
To prepare scientific leaders of the next generation by engaging students in interdisciplinary classroom, leadership, and research experiences which culminate in the dissemination of new scientific knowledge.

Vision
• UAB’s Science and Technology Honors Program will recruit a diverse group of talented undergraduate students, involve faculty from across the university as teachers and mentors, and provide a unique educational experience for students.
• Through interdisciplinary courses and laboratory research experiences, students will be exposed to the power of integrating multidisciplinary approaches and will apply this perspective to research questions.
• Science and Technology Honors students will be trained in scientific thinking and communication and will conduct and disseminate original research or scholarship under the supervision of a faculty mentor.

Benefits
Students in the STH Program work closely with research faculty and participate in original scientific research. During the first two years, the program prepares students with the knowledge and skills they need to get started in research. Beginning as early as the freshman or sophomore year, students work closely with a faculty mentor on an individualized project, learning about research through apprenticeship. STH students are encouraged to attend national conferences and to publish their research in scientific journals.

The program is a closely knit community with approximately 50 undergraduate students admitted each year. The small number encourages collaboration among students, interaction with faculty, and sharing of ideas. Students receive priority registration and take science and technology focused sections of core courses such as EH 202. In addition, STH students can earn graduate credit, providing an advantage when pursuing an advanced degree.

Satisfactory Academic Progress
STH students are required to maintain a cumulative 3.0 GPA in their UAB undergraduate coursework through graduation. If a student’s UAB GPA falls below 3.0, the student will have one year to raise his/her GPA to 3.0 or higher in order to remain in and complete the program.

Coursework
The academic portion of the Science and Technology Honors Program builds upon UAB’s research strengths in science and technology. Special interdisciplinary courses such as STH 199 Introduction to the Scientific Process and STH 299 Interdisciplinary Seminar examine topics from many scientific and technical perspectives, illustrating how scientists integrate multiple fields of study when approaching research and development questions.

Students discover the methodologies and techniques used in a variety of research areas, including biology, cell biology, chemistry, computer and information systems, engineering, neuroscience, psychology, physics, and more. In their STH 201 Research Approaches I and STH 202 Research Approaches II courses, students get hands-on experience in laboratory techniques and visit laboratories to observe researchers up close and in action.

Exclusive seminars put students face to face with UAB’s best known researchers who share their insights and experiences from the lab and the field. The entire curriculum is designed to encourage independent thinking, questioning of ideas, creative problem-solving, and skill in scientific communication. STH coursework also integrates seamlessly with honors programs in science and technology majors.

The program culminates in a two-year intensive research experience under the direction of UAB faculty. Students build upon the methods they have learned in their courses and seminars to propose and conduct an independent research project in collaboration with their faculty mentor. This project becomes the student’s Honors Thesis. The Honors Thesis is prepared for publication in a scientific journal and for presentation at a national conference. Thus, many STH students will both publish a scientific paper and present at a national conference before graduating.

STHP graduates will be well prepared for graduate and professional study and will show evidence of leadership in academic, economic, and policy areas related to science and technology during their careers.

1 EL 101, DCS 101 or other approved course
2 Students must complete six Experiential Learning Activities (EL 299), at a rate of approximately one per semester, beginning in fall of the sophomore year. Some students may choose to begin during the spring or summer of the freshman year. Three of these must be affiliated with a UAB course.
from UAB. Students in the program must complete 30 hours of honors coursework, which includes 19 hours of Science and Technology Honors courses and at least 8 hours of independent research under the direction of a faculty mentor to complete their Honors Thesis research. Honors versions of many core courses have been developed and contribute to the 30 hours of honors credit required.

Who Should Apply

This program is best suited for students who are intensely curious about science and excited about the prospect of becoming a generator of new knowledge in their field. In addition to curiosity about science, successful applicants generally have a strong academic record and plan to pursue a career in science or technology. STH students typically have a GPA of 3.5 or higher in their high school academic courses and ACT or SAT scores at or above the 90th percentile in math and science. Because the program values diversity and strives to accommodate talented students, applications are reviewed individually and invited applicants are personally interviewed.

Applications and letters of reference must be received by December 15th of the student’s senior year of high school. For more information on applying to the Honors College or its programs, visit http://www.uab.edu/honorscollege/.

STH Signature Courses

Each student in the program takes the following STH Program coursework during their first two years in the program to prepare for their independent research experience

STH 199 Introduction to the Scientific Process. Fall semester of freshman year. 2 credit hours. Students work in teams to analyze current scientific problems under investigation by UAB faculty, learning about how scientists approach problems and conduct their research, including ethics and institutional review of human and animal research.

STH 299 Interdisciplinary Seminar. Fall semester of sophomore year. 3 credit hours. This course illustrates the synergy achieved by interdisciplinary analysis of problems. Example topics include High Voltage Innovation, Neurobiology of Learning and Memory, Energy Generation and Conservation, Disorders of the Central Nervous System, and Forensic Science: The Science Behind CSI.

STH 201 Research Approaches I and STH 202 Research Approaches II. Spring semester of freshman and sophomore years. 3 credit hours each. Systematic training in foundational research methodologies and opportunity to application of the methods in research laboratories. Students choose among biotechnology training, advanced chemical analysis, or engineering design and materials analysis in their freshman year and rotate through laboratories chosen to match their research interests in their sophomore year.

STH 301 Statistics and Design Overview. Spring semester of sophomore year. 3 credit hours. Introduction to principles of research design and statistical analysis, including a statistics laboratory for hands on experience. Students may satisfy the STH 301 requirement by earning credit for an equivalent statistics course approved by the STH program director, e.g., MA 180 or PY 216. Alternative credit through AP or IB is also acceptable.

Curriculum

To graduate with University Honors in Science and Technology, students must complete a minimum of 30 semester hours of honors coursework including the following courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminars</td>
<td></td>
</tr>
<tr>
<td>STH 199 Introduction to the Scientific Process</td>
<td>2</td>
</tr>
<tr>
<td>STH 299 Interdisciplinary Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods/Applications</td>
<td></td>
</tr>
<tr>
<td>STH 201 Research Approaches I</td>
<td>3</td>
</tr>
<tr>
<td>STH 202 Research Approaches II</td>
<td>3</td>
</tr>
<tr>
<td>Scientific Communication/Technical Writing</td>
<td></td>
</tr>
<tr>
<td>EH 202 English Composition II for Science and Technology Honors Student</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>STH 301 Statistics and Design Overview</td>
<td>2</td>
</tr>
<tr>
<td>STH 302 Statistics/Design Overview Lab</td>
<td>1</td>
</tr>
<tr>
<td>STH 310 Communicating Science</td>
<td>1-3</td>
</tr>
<tr>
<td>STH 350 Next Level Leadership</td>
<td>1-3</td>
</tr>
<tr>
<td>STH 396 Internships/Comm Projects/SL</td>
<td>1-3</td>
</tr>
<tr>
<td>STH 397 Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Footnotes

a Students may satisfy the STH 202 requirement by having research experience in at least two laboratories and approval of the STH program director.
b Students may satisfy the STH 301 requirement by earning credit for an equivalent statistics course approved by the STH program director including but not limited to MA 180 or PY 216. Alternative credit through AP and IB is also acceptable.
c Students may also register for research credit under the equivalent course(s) in the department of their major, e.g., BY 398, CH 497, BME 494, PY 398, NBL 398, PH 498, etc. These are interchangeable with STH 398 and STH 399 and are all counted as honors hours.

Optional STH Electives

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STH 270 Perspectives on Innovation</td>
<td>3</td>
</tr>
<tr>
<td>STH 302 Statistics/Design Overview Lab</td>
<td>1</td>
</tr>
<tr>
<td>STH 310 Communicating Science</td>
<td>1-3</td>
</tr>
<tr>
<td>STH 350 Next Level Leadership</td>
<td>1-3</td>
</tr>
<tr>
<td>STH 396 Internships/Comm Projects/SL</td>
<td>1-3</td>
</tr>
<tr>
<td>STH 397 Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>
Proposed Program of Study for Science and Technology Honors Students

<table>
<thead>
<tr>
<th>Class</th>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>StH 199</td>
<td>2 StH 201</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>StH 150</td>
<td>1 StH 151</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EH 202 (or EH 101/102)(a, b)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>StH 299</td>
<td>3 StH 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>StH 250</td>
<td>1 StH 301</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>4</td>
<td>6</td>
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<tr>
<td>Junior</td>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>StH 398(c)</td>
<td>2 StH 395</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>StH 398(c)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Senior</td>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>StH 399(c)</td>
<td>2 StH 400</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>StH 399(c)</td>
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<td></td>
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<td></td>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>Total credit hours: 30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Explanation of Footnotes

(a) If the student does not yet have credit for EH 101, then the student would take EH 101 in the fall semester of freshman year followed by a special StH section of EH 102 in the spring of the freshman year instead of EH 202.

(b) If the student has credit for EH 101 but not EH 102, then the student would take a special StH section of EH 102 in the fall of the freshman year instead of EH 202.

(c) Students must have a minimum of 8 research hours which can be comprised of any combination of StH 398, StH 399, and/or their departmental equivalents. Students may earn research credit in fall, spring, and/or summer semesters and decide how to distribute the hours across those semesters. All honors research credit applies to the 30 hours of honors credit needed to complete the program.

University Honors Program

Program Director: Michael E. Sloane, Ph.D.
Associate Director: William J. Rushton, IV, Ph.D.
Program Manager: Donna Andrews, M.P.A.
Program Coordinator: Rebecca Freeman, M.A.

The University Honors Program draws on the wide range of resources available at a comprehensive research university and concentrates those resources within a small, personal, liberal arts setting. Designed for students who want to satisfy their intellectual curiosity both inside and outside the classroom, the program accepts about 50 students a year representing a wide variety of disciplines, backgrounds, and interests. The program offers an innovative, interdisciplinary arts and sciences curriculum taught by faculty who are known for their excellence in teaching and scholarship. Without delaying progress toward a degree, the University Honors Program provides students an opportunity to participate in a community of committed scholars, to form close relationships with faculty, to explore new ideas, and to share their ideas and interests in the friendly confines of the Spencer Honors House.

Benefits

Students in the University Honors Program receive a more intensive and innovative education than is available in the regular curriculum. Students take interdisciplinary courses and honors seminars on topics not offered in the regular academic departments. Since honors seminars are limited to 16 students University Honors Program students have close personal contacts with their instructors and with other students, providing a sense of community and identity within the larger university context. University Honors Program students have the opportunity to meet and get to know not only a wide variety of faculty and administrators on campus, but important figures in the community and distinguished visitors from throughout the world. Honors students receive priority registration and have privileged access to faculty research and scholarship. The Spencer Honors House, with all of its facilities, belongs to the honors students and is accessible to them at all times. Students have the opportunity to travel and to participate in a wide variety of cultural, social, and scholarly events. After completing the program, they graduate with the special designation “With University Honors” on their transcripts and in the commencement program. In addition, Honors students are recognized annually at the university-wide Honors Convocation and at Honors Day. Graduation from the University Honors Program, with its broad interdisciplinary arts and sciences curriculum gives students a distinct advantage when applying for graduate or professional schools.

Spencer Honors House

The center of identity and community for the University Honors Program is the Spencer Honors House, located on campus in the spacious and attractive environment of the Old Church at 1190 10th Avenue South. All instructional and social activities of the University Honors Program take place there. The Spencer Honors House is also available for day-to-day use by honors students for recreation, studying, meeting, and relaxing. The facilities include a kitchen, lounge areas, library, computer clusters, and pool and Ping-Pong tables. The offices of the director, associate director, and assistant director are also in the house.

Scholarships

The Hess-Abrams Honors Scholarships, awarded annually, are valued at $24,000 each and provide $6,000 per year. Application is open to incoming freshmen. The award is based on superior academic achievement, creativity or talent, strong motivation, character, and intellectual promise. Application materials are made available at the time of interview. The University Honors Program also has a number of smaller ($1,000-$2,000) annual scholarships that are awarded in May each year. Students who have committed to entering the program can apply for these scholarships that are distributed based on merit and need.

Application

For more information on applying to the Honors College or its programs, visit http://www.uab.edu/honorscollege/.

Honors Coursework

Instead of the 41 semester hours of Core Curriculum requirements, students in the University Honors Program take 33 semester hours of honors coursework and three semester hours in mathematics. In addition,
they participate in a variety of special events, most of which are centered in the Spencer Honors House. While in no way delaying progress toward a degree or interfering with commitment to a major, the University Honors Program provides a stimulating range and depth of scholarly pursuits within an interdisciplinary arts and sciences context. Students have frequent individual contact with the teaching faculty and have unusual opportunities for independent projects and research.

Honors students have two options for completing their 33 semester hours in honors:

- Two 9-semester-hour fall-semester interdisciplinary honors courses plus five 3-semester-hour honors seminars (only two of which can be related to the student’s major or minor); or
- Two 9-semester-hour fall-semester interdisciplinary honors courses, a minimum of three 3-semester-hour honors seminars (not related to the student’s major or minor), and up to six semester hours of departmental honors coursework within the student’s major (with the total number of semester hours adding up to 33).

The interdisciplinary honors courses are offered during the fall semester and are open only to University Honors students. These courses are team-taught by faculty members (usually six) from different schools in the university and by guest lecturers from the medical center, the business, and other areas. Each interdisciplinary course is organized thematically and designed to cover a broad range of material so the student is introduced to all areas covered by the Core Curriculum and to a wide variety of other areas as well. Topics of past interdisciplinary courses have included “Minds and Realities,” “In Search of Human nature,” “If It’s About Time,” and “The Anatomy of Desire.” As part of the course, each student works on an independent project related to the central theme. Since instructors are committed to full-time teaching of this course, students receive ample advice and guidance on their projects.

The University Honors program offers about 18-20 different honors seminars each year. Some are cross-listed in other departments and so are open to all students at UAB. These seminars are offered during the fall semester, spring semester, and summer term and are limited to 16 students. Honors seminars are available in a variety of different fields and focus on issues that are of major interest within the field and also have implications and applications beyond it. Examples of honors seminars which have been taught are “Ethnographic Filmmaking,” “China’s Next phase,” “Cognitive Brain Imaging,” Philosophy, Psychology, and the Economics of Happiness,” Existentialism and Modern Literature.”

**Additional Information about the Curriculum Core Requirement in Mathematics**

In addition to the honors coursework, University Honors Program students must fulfill the mathematics requirement of Area III of the Core Curriculum.

**Credit for Participation in Honors**

Students may receive up to three semester hours of credit, graded on a pass/fail basis, for participating in the range of special events sponsored by the University Honors Program. Those events include:

- The monthly lecture
- First Thursday Lecture series
- Afternoon receptions for visiting speakers

**Credit for Community Service**

Students may receive up to three semester hours of credit, graded on a pass/fail basis, for completing long-term service projects. Available projects are announced before each semester and typically include:

- Work at a recycling center
- Homeless shelter
- Public school

As well as regular meetings to reflect on these service projects.

**Independent Study**

Students may propose an internship or independent study project in place of one seminar. An example of such a project is an internship at city hall, leading to a policy proposal on some area of city government. Proposals for these projects must be approved by the Honors Council.

**Honors Research**

Students can register for one, two, or three credit hours of Honors Research, and receive a letter grade for their research. Students arrange for a research mentor and conduct a project under the guidance of a faculty mentor.

**Continuation in the Program**

A student who leaves the University Honors Program for any reason will receive full credit toward graduation for all coursework completed in the program. The director of the University Honors Program will designate which of the Core Curriculum requirements have been fulfilled by the individual student’s honors coursework. An honors student is expected to maintain a 3.0 average in University Honors Program coursework. If the average falls below 3.0, the student will have one year to raise his or her average up to a 3.0 in order to remain in the program. A student must have an overall 3.0 average in the program and at UAB to graduate “With University Honors”; a student who has a 3.0 average in the program but a lower UAB GPA will graduate “With Honors in Interdisciplinary Studies.”

<table>
<thead>
<tr>
<th>Senior</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Term</td>
<td>15</td>
</tr>
<tr>
<td>Non-honors: 5 courses in major/minor/pre-professional courses</td>
<td>15</td>
</tr>
<tr>
<td>Total credit hours: 15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>15</td>
</tr>
<tr>
<td>One Honors Seminar for 3 credit hours</td>
<td>3</td>
</tr>
<tr>
<td>Non-honors: 4 courses in major/minor/pre-professional courses</td>
<td>12</td>
</tr>
<tr>
<td>Total credit hours: 15</td>
<td></td>
</tr>
</tbody>
</table>
### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors: 1 honors seminar for 3 credit hours</td>
<td>3</td>
<td>One Honors Seminar for 3 credit hours</td>
<td>3</td>
</tr>
<tr>
<td>Non-Honors: 4 courses in major/minor/pre-professional courses</td>
<td>12</td>
<td>Non-honors: 4 courses in major/minor/pre-professional courses</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 30</td>
<td></td>
<td></td>
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</tr>
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</table>

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 201</td>
<td></td>
<td>One Honors Seminar for 3 credit hours</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 of the following selection is dependent on fall offering</td>
<td></td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Select two (non-honors) courses in major/pre-professional courses</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HON 203</td>
<td>HON 205</td>
<td>HON 202</td>
<td>HON 204</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>select 3 of the following selection is dependent on fall offering</td>
<td>9</td>
<td>One Honors Seminar for 3 credit hours</td>
<td>3</td>
</tr>
<tr>
<td>select two (non-honors) courses in major/pre-professional courses</td>
<td>6</td>
<td>Non-honors: 4 courses in major/pre-professional</td>
<td>12</td>
</tr>
<tr>
<td>HON 101</td>
<td>HON 103</td>
<td>HON 105</td>
<td>HON 107</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
School of Education

Dean: Deborah L. Voltz

The School of Education offers programs that are fully approved by the Interstate Agreement on Qualifications of Educational Personnel, the National Association of State Directors of Teacher Education Council (NASDTEC), the National Council for Accreditation of Teacher Education (NCATE), and the Alabama State Board of Education. These teacher certification programs lead to Bachelor of Science degrees in early childhood & elementary education, secondary education, and kinesiology. The School also offers a range of Master of Arts in Education degrees plus post–master’s programs leading to the Educational Specialist degree. Ed.D. and Ph.D. degrees in early childhood education, educational leadership, and health education/health promotion are also available.

The School of Education also offers non-teacher certification programs that prepare students for employment in a variety of wellness, health, and fitness and sports (community, commercial, clinical, and corporate) agencies/facilities and/or admission to health-related graduate programs (e.g. physical therapy, medicine, occupational therapy). These non-teaching majors are available in Health Education and Kinesiology. The Exercise Science concentration is a National Strength and Conditioning Association (NSCA) recognized program.

Teacher Certification Programs

At the undergraduate level, students may complete programs that lead to certification in the following areas:

<table>
<thead>
<tr>
<th>Certification Area &amp; Grade Levels</th>
<th>Undergraduate Major</th>
<th>Teacher Education Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology (6-12)</td>
<td>Secondary Education/Biology</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Chemistry (6-12)</td>
<td>Secondary Education/Chemistry</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Early Childhood (P-3) and Elementary Education (K-6)</td>
<td>Early Childhood &amp; Elementary Education</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>English Language Arts (6-12)</td>
<td>Secondary Education</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>General Science (6-12)</td>
<td>Secondary Education/General Science</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>General Social Science (6-12)</td>
<td>Secondary Education/General Social Science</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Mathematics (4-8)</td>
<td>Mathematics*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Mathematics (6-12)</td>
<td>Secondary Education/Mathematics</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Music - Instrumental (P-12)</td>
<td>Music*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Music - Vocal/Choir (P-12)</td>
<td>Music*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Kinesiology (P-12)</td>
<td>Kinesiology (Physical Education)</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Physics (6-12)</td>
<td>Secondary Education/Physics</td>
<td>Curriculum &amp; Instruction</td>
</tr>
</tbody>
</table>

* Students seeking teacher certification in these programs must follow all requirements for program admission, retention, completion, and certification as detailed in the sections relevant to secondary/high school education.

These baccalaureate programs lead to Alabama “Class B” certification. Once a student successfully completes a program and presents an application for an Alabama teaching certificate, the School of Education recommends to the Alabama Department of Education that a teaching certificate be issued; however, it is the Alabama State Board of Education that actually issues the certificate to teach. To be recommended for Alabama teacher certification a student must have met all program requirements outlined in the appropriate sections that follow and have submitted an application for certification. UAB cannot recommend any student for certification who has not satisfied all state and university requirements for admission to and completion of an approved program.

The programs outlined in this catalog meet all Alabama Department of Education requirements for teacher certification in effect at the time of publication. They also meet the current criteria established by the Alabama Department of Education for defining teachers as highly qualified as required by the federal No Child Left Behind Act of 2001. Because the Alabama State Board of Education may change or add teacher certification requirements after the publication of this catalog, it is highly recommended that students remain in contact with their School of Education academic advisor.

Non-Teacher Certification Programs

At the undergraduate level, students may complete non-teacher certification concentrations in the following areas:

<table>
<thead>
<tr>
<th>Program Area/Concentration</th>
<th>Undergraduate Major</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Health</td>
<td>Health Education</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Exercise Science</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Fitness Leadership</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Human Services</td>
<td>Health Education</td>
<td>Human Studies</td>
</tr>
<tr>
<td>2+2 Early Childhood</td>
<td>Early Childhood Education</td>
<td>Curriculum and Instruction</td>
</tr>
<tr>
<td>Non-Certification</td>
<td>Early Childhood Non-Certification Education</td>
<td>Curriculum and Instruction</td>
</tr>
<tr>
<td>4 Year Early Childhood</td>
<td>Early Childhood Non-Certification Education</td>
<td>Curriculum and Instruction</td>
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</table>

School of Education Minors

The School of Education offers the following minors:

<table>
<thead>
<tr>
<th>Minor</th>
<th>Program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Coaching</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Exercise Science</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Health Education</td>
<td>Health Education</td>
<td>Human Studies</td>
</tr>
</tbody>
</table>

Office of Clinical Experiences

The Office of Clinical Experiences is responsible for coordinating student teaching and other clinical experiences for the School of Education. Information concerning student teaching applications, placement, and field experiences may be found in Suite 232, Education Building.
Office of Student Services

The Office of Student Services located in Suite 232, Education Building, provides academic advising to undergraduate Education majors. This office is also responsible for academic records and recommendations for teacher certification for the School of Education. Application materials for the Teacher Education Program and for Alabama teacher certification can be found at http://www.uab.edu/soestudentsservices/.

Alabama teacher certification programs and basic degree requirements vary among majors. Students should contact this office early in their studies to be certain they will meet School of Education requirements and Alabama Department of Education teacher certification requirements. The Alabama State Department of Education sets requirements for teacher education majors. Changes to these requirements may occur periodically so students should meet with their academic advisor at least once per semester to receive the most updated information about the Alabama State Department of Education requirements.

English Language Institute (ELI)

The English Language Institute (ELI) is UAB's English language training resource for international undergraduate students, international post-doctoral researchers, and non-native English speaking employees. ELI provides semester-long courses as well as workshops and training programs designed to help English language learners achieve academic English language proficiency. For more information call 975-6638, e-mail eli@uab.edu (elci@uab.edu), or visit http://www.ed.uab.edu/eli/index.asp

Honors Program in Exercise Science and Fitness Leadership

The Department of Human Studies offers an Honors Program for Exercise Science and Fitness Leadership students. Highly qualified students will have the opportunity to work one-on-one with a mentor in an area of mutual interest and conduct either a research or civic engagement project designed to meet some particular need as it relates to pertinent areas of fitness, exercise and physical activity. For more information go to: http://www.uab.edu/education/humanstudies/physical-education/honors-program.

TEP Admission Requirements

1. Completion of the following courses with a GPA of 2.50 or better. Any course with a grade below "C" must be retaken.  
   a. EDU 200 Education as a Profession  
   b. HPE 200 Quality of Life  
   c. EDF 362 Foundations of Education I: Social, Historical, Philosophical  
   d. EPR 363 Foundations of Education II: Psychological  
   e. ECY 300 Survey of Special Education
2. Completion of 41 semester hours in the Core Curriculum and seven semester hours in lower division pre-professional/major courses.
3. Minimum GPA of 2.50 in Core Curriculum requirements (Areas I-IV) in accordance with UAB course repeat policy.
4. Minimum Higher Education GPA of 2.50 in accordance with UAB course repeat policy.
5. Evidence of writing proficiency as documented by (must meet both criteria).  
   a. Passing score on spontaneous writing sample in EDU 200 or at TEP interview or "B" or higher in EDU 210.
   b. Grade of at least one "B" and one "C" in EH 101 and EH 102.
6. Evidence of speaking proficiency as documented by (must meet both criteria):  
   a. Passing score on spontaneous speaking sample at TEP interview.
   b. Grade of "C" or better in CMST 101.
7. Passing score on EDU 200 Mathematics Proficiency.
8. Score of "pass" on pre-TEP portfolio as reviewed by faculty.
9. Score of "pass" on TEP interview as reviewed by faculty.
10. Score of "pass" on all three parts of the Basic Skills Assessments of the Alabama Educator Certification Testing Program (AECTP).
11. Evidence of the dispositions needed to be a successful teacher.
12. Criminal history background check status shown as "cleared" on Alabama Department of Education database.
13. Additional requirements by program.

EARLY CHILDHOOD/ELEMENTARY EDUCATION:

1. Passing score on all parts of Praxis II: Elementary Education Multiple Subjects (Code 5031).
2. Passing score on Praxis II: Early Childhood Content Knowledge (Code 5022).
3. EEC 300, Child Development/Family Relationships (C or better).
4. EEC 301, Introduction to P-6 Education (C or better).
5. EEC 440, Workshop in Education (C or better).
6. Minimum of 2.75 GPA in Professional Studies courses: EDU 200, HPE 200, EDF 362, EPR 363, ECY 300, EEC 300, EEC 301, and EEC 440 (a maximum of one Professional Studies course may be forgiven when calculating a candidate's Professional Studies GPA).
7. MA 313, Patterns, Functions, and Algebraic Reasoning (C or better).

KINESIOLOGY

1. Grade of "C" or better in all math, science, and teaching field courses.
2. Successful completion (C or better) of the following courses:
   - 4 of 8 activity courses (100 level)
   - Officiating course
   - KIN 300 Organization and Administration of Kinesiology
   - KIN 305 Motor Development
   - BY 115 Human Anatomy
   - BY 116 Human Physiology
   - EDR 442 Reading in the Content Areas

SECONDARY EDUCATION

1. Successful completion of at least 18 semester hours of required teaching field content with at least six semester hours completed at UAB.
2. Minimum 2.50 GPA in teaching field courses.
3. Grade of "C" or better in all teaching field courses.
4. EHS 401 Secondary School Curriculum (C or better).

Applications for admission to Teacher Education Program are due September 15 for spring admission, February 15 for summer admission, and June 15 for fall admission. With regard to AECTP and Praxis exam requirements, candidates are encouraged to consult with their advisor.
and/or check the Alabama State Department of Education website for the most current testing information http://www.ets.org/praxis/al?WT.ac=praxishome_states_121126.

TEP Retention Requirements

A student may be dropped from the Teacher Education Program for failure to maintain satisfactory academic performance or professional dispositions as described by School of Education policy. Consistent with UAB policy on readmission, students readmitted to UAB must complete all program requirements, including TEP admissions and retention and completion requirements as outlined in the catalog under which they are officially readmitted.

1. Additional retention requirements by program:

   a. Early Childhood/Elementary Education
      i) Grade of "C" or better in all Pedagogy I courses (EDR 440, EEC 402, EEC 405, EEC 406, and EEC 494) and a GPA of 3.0 or higher in the Pedagogy I courses.
      ii) Grade of "C" or better in all Pedagogy II courses (EEC 412, EEC 413, EEC 414, EDR 443, and EEC 494) and a GPA of 3.0 or higher in the Pedagogy II courses.

Student Teaching Requirements

All students seeking baccalaureate degrees leading to teaching certificates must participate in a student teaching internship. All students must apply for student teaching by January 31 of the academic year that precedes student teaching. Applications are available online at the School of Education website, Office of Clinical Experiences. For additional information contact the Office of Clinical Experiences in Suite 232 of the Education Building.

To be eligible for this internship, students must have an approved student teaching application based on the following:

Early Childhood/Elementary Education:

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Early Childhood/Elementary program.
3. Minimum higher education GPA of 2.50.
4. Minimum GPA of 2.50 in core curriculum courses.
5. Minimum GPA of 2.50 in all Professional Studies courses.
6. Minimum GPA of 2.50 in all Teaching Field courses.
8. Passing score on all three parts of the Alabama Educator Certification Testing Program (AECTP).
9. Passing score on all parts of the Praxis II: Elementary Education Multiple Subjects (Code 5031).
11. Passing score on Praxis II: Teaching Reading (Code 5204).
13. Demonstration of the dispositions needed to be successful as a teacher of young children, including children with special needs.
14. Documentation of requisite contact hours (150 hours) in schools.
15. Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

Students approved to teach in Early Childhood/Elementary Education must be concurrently enrolled in EEC 490 Internship in P-3/3-6 and EEC 491 Internship Seminar in P-6 Education.

Students cannot take additional coursework besides these two courses during the term in which they student teach.

KINESIOLOGY

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Kinesiology program.
3. Minimum higher education GPA of 2.50.
4. Minimum GPA of 2.50 in core curriculum courses.
5. Minimum GPA of 2.50 in all Professional Studies courses.
6. Minimum GPA of 2.50 in all Teaching Field courses.
7. Completion of all teaching field courses (KIN 307, KIN 308, KIN 311, KIN 320, KIN 320L, KIN 400, KIN 402, KIN 409, and KIN 489) with a grade of "C" or better.
8. Passing score on the Alabama Educator Certification Testing Program (AECTP).
11. Demonstration of the dispositions needed to be successful as a teacher.
12. Documentation of the requisite contact hours (150 hours) in schools.
13. Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

SECONDARY EDUCATION

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Secondary Education program.
3. Minimum higher education GPA of 2.50.
4. Minimum GPA of 2.50 in core curriculum courses.
5. Minimum GPA of 2.50 in all Professional Studies courses.
6. Minimum GPA of 2.50 in all Teaching Field courses.
7. Completion of all coursework. In some instances, a student may be allowed to take a teaching field course during the semester that immediately follows the student teaching semester. Students should regularly consult with their advisor to plan their program so that all teaching field courses are completed prior to student teaching.
8. Passing score on all three parts of the Alabama Educator Certification Testing Program (AECTP).
9. Passing score on the appropriate Praxis II Subject Assessment.
11. Demonstration of the dispositions needed to be a successful teacher of middle and high school students, including students with special needs.
12. Documentation of requisite contact hours (150 hours) in schools.
Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

Students approved to teach in Secondary Education must be concurrently enrolled in EHS 490 Secondary School Student Teaching I and EHS 489 Internship Seminar in Secondary Education. Students cannot take additional coursework besides these two courses during the term in which they student teach.

TEP Completion and Certification Requirements

A student who satisfies TEP admission and retention requirements and who meets the following completion requirements will be recommended for "Class B" teacher certification. Students must apply for certification. Certification application packets are available on the School of Education-Office of Student Services website www.uab.edu/soeststudentservices, and should be completed and returned to the Office of Student Services, Suite 232, Education Building during the semester of program completion.

1. Students must have a minimum 2.50 higher education GPA, 2.50 teaching field GPA, and 2.50 professional studies GPA with no grade below "C" in professional studies courses.
2. Students must complete all courses on the Alabama State Board of Education approved checklist for the teaching field(s) in which certification is sought.
3. Students must demonstrate readiness to teach through on-the-job performance as a student teacher. This evaluation is conducted by the School of Education faculty and appropriate personnel from local school systems.
4. Students must successfully complete a professional portfolio documenting readiness to teach before being recommended for certification.
5. Students must document a passing score on the Alabama Educator Certification Testing Program (AECTP) and all appropriate Praxis II Exams. Official score reports must be sent to both UAB and the Alabama State Department of Education.
6. The Alabama State Department of Education has additional requirements for teacher certification. Included in these are fees associated with obtaining a certificate which are set by legislative action and may be changed. Students seeking initial certification are required to obtain background clearance to determine any criminal history through a fingerprint review conducted by the Alabama Bureau of Investigation (ABI) and the Federal Bureau of Investigation (FBI) prior to the issuance of a teaching certificate. A current application and fee payment for official transcripts are also required. Information on these requirements is available in the Office of Student Services, Suite 232, Education Building, and is included in the certification application packet.

Teacher Certification for Students who Hold a Baccalaureate Degree

There are several routes to teacher certification in the state of Alabama for those who already hold a baccalaureate degree. One option is to return to school to complete the current undergraduate coursework required for teacher certification. In general, individuals exercising this option are required to meet the same requirements for admission to, retention in, and exit from the Teacher Education Program as indicated above. Additionally, these students are required to have a program plan approved by the department chair before enrolling in any courses. A second option is to pursue the Alternative Master's Program. Completion of this program and all its requirements leads to a master's degree in education and Alabama "Class A" teacher certification.

Additional information on these and other options may be found on the Alabama State Department of Education’s web site (http://www.alsde.edu) or by contacting The Office of Student Services.

Department of Curriculum and Instruction

Chair: Lynn Kirkland

The Department of Curriculum and Instruction offers undergraduate programs leading to a B.S. degree and Alabama "Class B" certification in early childhood/elementary education (grades P-6) and secondary education (grades 6-12). Programs in instrumental music education (grades P-12) and vocal/choral music education (grades P-12) are offered in conjunction with the College of Arts and Sciences. A program in middle school mathematics (grades 4-8) is offered in conjunction with the College of Arts and Sciences. In addition, the department offers programs leading to the Master of Arts in Education degree and to the Education Specialist degree. These graduate programs are designed so that students may receive Alabama “Class A” and “Class AA” teaching certificates. Students may also earn a Doctor of Philosophy degree (Ph.D.) in early childhood education.

Students preparing to teach are expected to participate in a series of planned assignments in community and/or school settings both before and after admission to the Teacher Education Program. These opportunities to work with children and youth are designed to enhance the students’ professional development and to supplement their campus coursework.

Early Childhood Education - Non-Certification (p. 213)

Early Childhood & Elementary Education - Teacher Certification (p. 214)

Early Childhood Education - Non-Certification

The early childhood education non-certification program is designed to prepare students to work in a variety of early care and educational settings serving children ages birth to five. Career options include but are not limited to childcare administration, childcare resource and referral, and teaching in preschool and Head Start classrooms. Students successfully completing the program will receive a baccalaureate degree in early childhood education. In addition to studying general child development content, students will learn the basics of planning, implementing, and evaluating early childhood programs. Professional preparation includes courses in child development, curriculum, instructional strategies, assessment, and technology. The program includes extensive field experiences in infant, toddler, and preschool classrooms.

There are two pathways to earning an early childhood non-certification bachelor’s degree. One option, the 2+2 option, is designed for students who complete an Associate degree in child development at an Alabama community college. These students transfer to UAB complete the second half of the early childhood education non-certification bachelor’s degree.
program. Option two is for students who begin their post-secondary education at a four-year institution.

Core Curriculum for Early Childhood Education (Non-Certification) 

Refer to Core Curriculum (p. 294)

1 Core Curriculum Area IV: PY 101 Introduction to Psychology & SOC 100 Introduction to Sociology preferred.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Childhood Courses (Non-Certification) (Common to all in Major)</td>
<td></td>
</tr>
<tr>
<td>ECY 300</td>
<td>Survey of Special Education</td>
</tr>
<tr>
<td>EEC 300</td>
<td>Child Development/Family Relationships</td>
</tr>
<tr>
<td>EEC 405</td>
<td>Children’s Literature in Early Childhood and Elementary Education</td>
</tr>
<tr>
<td>EEC 415</td>
<td>Learning Environments</td>
</tr>
<tr>
<td>EPR 363</td>
<td>Foundations of Education II: Psychological</td>
</tr>
<tr>
<td>EDF 362</td>
<td>Foundations of Education I: Social, Historical, Philosophical</td>
</tr>
<tr>
<td>HPE 301</td>
<td>Teaching Health Education and Kinesiology in Elementary Schools</td>
</tr>
<tr>
<td>Early Childhood Non-Certification Concentration (Track)</td>
<td></td>
</tr>
<tr>
<td>ECE 320</td>
<td>Introduction to Curriculum and Teaching</td>
</tr>
<tr>
<td>ECE 347</td>
<td>Language Experiences for the Preprimary Child</td>
</tr>
<tr>
<td>ECE 390</td>
<td>Practicum in Early Childhood Education</td>
</tr>
<tr>
<td>ECE 410</td>
<td>Organize Programs: Young Children</td>
</tr>
<tr>
<td>ECE 445</td>
<td>Young Children: Math/Science/Social Studies</td>
</tr>
<tr>
<td>ECE 446</td>
<td>Communication Arts/Reading: Young Child</td>
</tr>
<tr>
<td>ECE 448</td>
<td>Infant/Toddler Development</td>
</tr>
<tr>
<td>ECE 449</td>
<td>Education Environment: Infant/Parent</td>
</tr>
<tr>
<td>ECE 460</td>
<td>Current Topics in Education</td>
</tr>
<tr>
<td>ECE 490</td>
<td>Student Teaching in Early Childhood Education I</td>
</tr>
<tr>
<td>ECE 492</td>
<td>Individual Curriculum Projects</td>
</tr>
<tr>
<td>ECE 494</td>
<td>Field Work in Early Childhood Education</td>
</tr>
<tr>
<td>ECE 302</td>
<td>Expressive Arts (P-6) (or ECE)</td>
</tr>
<tr>
<td>KIN 305</td>
<td>Motor Development</td>
</tr>
<tr>
<td>Total Hours</td>
<td>76</td>
</tr>
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</table>

Lower Division Requirements for Early Childhood & Elementary Education

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Laboratory Science</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4</td>
</tr>
<tr>
<td>AST 101</td>
<td>Astronomy of the Universe</td>
</tr>
<tr>
<td>&amp; AST 111</td>
<td>and Astronomy of the Universe Laboratory</td>
</tr>
<tr>
<td>AST 102</td>
<td>Astronomy of Stellar Systems</td>
</tr>
<tr>
<td>&amp; AST 112</td>
<td>and Astronomy of Stellar Systems Laboratory</td>
</tr>
<tr>
<td>AST 103</td>
<td>Astronomy of the Solar System</td>
</tr>
<tr>
<td>&amp; AST 113</td>
<td>and Astronomy of the Solar Systems Laboratory</td>
</tr>
<tr>
<td>AST 105</td>
<td>Extraterrestrial Life</td>
</tr>
<tr>
<td>&amp; AST 115</td>
<td>and Extraterrestrial Life Laboratory</td>
</tr>
<tr>
<td>BY 101</td>
<td>Topics in Contemporary Biology</td>
</tr>
<tr>
<td>&amp; BY 102</td>
<td>and Topics Contemporary Biology Laboratory</td>
</tr>
<tr>
<td>BY 111</td>
<td>Extended Topics in Contemporary Biology</td>
</tr>
<tr>
<td>&amp; BY 112</td>
<td>and Ext Topics Contemporary Biology Laboratory</td>
</tr>
<tr>
<td>BY 123</td>
<td>Introductory Biology I</td>
</tr>
<tr>
<td>BY 124</td>
<td>Introductory Biology II</td>
</tr>
<tr>
<td>CH 105</td>
<td>Introductory Chemistry I</td>
</tr>
<tr>
<td>&amp; CH 106</td>
<td>and Introductory Chemistry I Laboratory</td>
</tr>
<tr>
<td>CH 107</td>
<td>Introductory Chemistry II</td>
</tr>
<tr>
<td>&amp; CH 108</td>
<td>and Introductory Chemistry II Laboratory</td>
</tr>
<tr>
<td>CH 115</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>&amp; CH 116</td>
<td>and General Chemistry I Laboratory</td>
</tr>
<tr>
<td>CH 117</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>&amp; CH 118</td>
<td>and General Chemistry II Laboratory</td>
</tr>
<tr>
<td>ENV 108</td>
<td>Human Population and the Earth’s Environment</td>
</tr>
<tr>
<td>&amp; ENV 109</td>
<td>and Laboratory in Environmental Science</td>
</tr>
<tr>
<td>ES 101</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>&amp; ES 102</td>
<td>and Physical Geology Laboratory</td>
</tr>
<tr>
<td>ES 103</td>
<td>History of the Earth</td>
</tr>
<tr>
<td>&amp; ES 104</td>
<td>and History of the Earth Laboratory</td>
</tr>
<tr>
<td>PH 201</td>
<td>College Physics I &amp; College Physics Laboratory I</td>
</tr>
<tr>
<td>&amp; 201L</td>
<td>and College Physics Laboratory I</td>
</tr>
<tr>
<td>PH 202</td>
<td>College Physics II &amp; College Physics Laboratory II</td>
</tr>
<tr>
<td>&amp; 202L</td>
<td>and College Physics Laboratory II</td>
</tr>
<tr>
<td>PH 221</td>
<td>General Physics I &amp; General Physics Laboratory I</td>
</tr>
<tr>
<td>&amp; 221L</td>
<td>and General Physics Laboratory I</td>
</tr>
<tr>
<td>PH 222</td>
<td>General Physics II &amp; General Physics Laboratory II</td>
</tr>
<tr>
<td>&amp; 222L</td>
<td>and General Physics Laboratory II</td>
</tr>
<tr>
<td>PHS 101</td>
<td>Physical Science</td>
</tr>
<tr>
<td>ES 301</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>&amp; ES 302</td>
<td>and Physical Geology Laboratory</td>
</tr>
<tr>
<td>ES 303</td>
<td>History of the Earth</td>
</tr>
<tr>
<td>&amp; ES 304</td>
<td>and History of the Earth Laboratory</td>
</tr>
<tr>
<td>PH 201</td>
<td>College Physics I</td>
</tr>
<tr>
<td>&amp; 201L</td>
<td>and College Physics Laboratory I</td>
</tr>
<tr>
<td>PH 202</td>
<td>College Physics II &amp; College Physics Laboratory II</td>
</tr>
<tr>
<td>&amp; 202L</td>
<td>and College Physics Laboratory II</td>
</tr>
<tr>
<td>PH 221</td>
<td>General Physics I &amp; General Physics Laboratory I</td>
</tr>
<tr>
<td>&amp; 221L</td>
<td>and General Physics Laboratory I</td>
</tr>
<tr>
<td>PH 222</td>
<td>General Physics II &amp; General Physics Laboratory II</td>
</tr>
<tr>
<td>&amp; 222L</td>
<td>and General Physics Laboratory II</td>
</tr>
<tr>
<td>PHS 101</td>
<td>Physical Science</td>
</tr>
<tr>
<td>Other Science with Lab</td>
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</tr>
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</table>

Math Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 313</td>
<td>Patterns, Functions and Algebraic Reasoning</td>
</tr>
<tr>
<td>Select one 100 Level or higher math course not used above</td>
<td>3</td>
</tr>
<tr>
<td>Select two additional math courses at 100-level or higher (MA 314 and MA 316 preferred)</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Psychology</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 101</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>&amp; 201</td>
<td>and Introduction to Psychology</td>
</tr>
<tr>
<td>Total Hours</td>
<td>19</td>
</tr>
</tbody>
</table>

1 Students may NOT use the same course to satisfy this requirement and the Core Curriculum Area III: Science requirement.

2 This course will apply toward this requirement as well as Core Curriculum Area IV.
### Major Requirements for Early Childhood Education & Elementary Education

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations &amp; Professional Studies</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
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</tr>
<tr>
<td>EDU 200 - Education as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200 - Quality of Life</td>
<td>2</td>
</tr>
<tr>
<td>EGY 300 - Survey of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362 - Foundations of Education I: Social, Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363 - Foundations of Education II: Psychological</td>
<td>3</td>
</tr>
<tr>
<td>EEC 300 - Child Development/Family Relationships</td>
<td>4</td>
</tr>
<tr>
<td>EEC 301 - Introduction to P-6 Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC 440 - Workshop in Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Teaching Field Courses</strong></td>
<td></td>
</tr>
<tr>
<td>EEC 302 - Expressive Arts (P-6)</td>
<td>1</td>
</tr>
<tr>
<td>EEC 402 - Primary Math Methods&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>EEC 405 - Children’s Literature in Early Childhood and Elementary Education&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EEC 406 - Language Arts in Early Childhood and Elementary Education&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EEC 412 - Math in Early Childhood and Elementary Education&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EEC 413 - Science in Early Childhood and Elementary Education&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EEC 414 - Social Studies in Early Childhood and Elementary Education&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EEC 415 - Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>HPE 301 - Teaching Health Education and Kinesiology in Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EPR 410 - Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDR 440 - Developmental Reading I&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EDR 443 - Developmental Reading II&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EEC 494 - Field Work in Early Childhood and Elementary Education</td>
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<tr>
<td><strong>Internship</strong></td>
<td></td>
</tr>
<tr>
<td>EEC 490 - Internship in P-3/3-6</td>
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</tr>
<tr>
<td>EEC 491 - Internship Seminar in P-6 Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 74-75

---

1. Required for admission to TEP
2. Must be admitted to TEP

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### Secondary Education

#### Secondary Education/Biology (p. 216)
#### Secondary Education/General Science
#### Secondary Education/Chemistry (p. 217)
#### Secondary Education/ (p. 217)Language Arts
#### Secondary Education/General Social Science
#### Secondary Education/Mathematics (p. 221)
#### Secondary Education/Physics (p. 221)

### Middle School Education

A program in middle grades mathematics (grades 4-8) is offered in conjunction with the College of Arts and Sciences. Students following this program must meet TEP entrance, retention, and completion requirements as outlined in previous sections in order to be recommended for Alabama teacher certification. Students seeking certification in middle grades mathematics should complete the Mathematical Reasoning track of the Mathematics major within the Department of Mathematics (see catalog). For education course requirements, contact the Office of Student Services (934-7530), within the School of Education, for the current checklist.

### Secondary Education

The secondary education program offers a major in secondary education and certification areas for grades 6–12 in biology, chemistry, English language arts, general science, general social science, mathematics, and physics. Programs leading to grades P-12 certification in music (instrumental and vocal/choral) are offered in conjunction with the College of Arts and Sciences.

Candidates obtaining teacher certification in secondary (grades 6-12 or P-12) areas must have either an academic major or meet what is known as the 32/19 rule of the Alabama State Department of Education in order to meet the highly qualified condition of the No Child Left Behind Act. A major in education and a major in an academic field (e.g., chemistry) are required in most cases. Candidates should follow the appropriate program checklist assigned by the Office of Student Services within the School of Education to insure that they meet certification requirements. Although an academic major such as chemistry, history, etc. from the College of Arts and Sciences (CAS) is built into most checklists, candidates should seek advising for these content majors from CAS advisors to insure they meet all current degree requirements. Students who complete requirements for both an education major and an academic major will receive a single degree with both majors listed.

Due to Alabama State Department of Education regulations for teachers, Core Curriculum requirements for education majors are more specific than Core Curriculum requirements for academic majors. Students should obtain a program checklist from the Office of Student Services, Suite 232, Education Building. They should also consult with their educator advisor once per term and with a content advisor in CAS to insure they stay on track for all requirements.
Secondary Education/Biology

This program is a major in secondary education with a possible biology double major and leads to teacher certification in biology only. Students wishing to teach biology and other sciences should see the next section entitled “Secondary Education/General Science”.

Core Curriculum for Secondary Education/Biology

Refer to Core Curriculum (p. 294)

Lower Division Requirements for Secondary Education/Biology Major

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 1</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Additional Math 2</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry Requirements</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118 General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 236 Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 238 Organic Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>Physics Requirements</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>8</td>
</tr>
<tr>
<td>PH 201 College Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PH 202 College Physics II</td>
<td></td>
</tr>
<tr>
<td>PH 221 General Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PH 222 General Physics II</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>31</td>
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</tbody>
</table>

1 This course will apply toward this requirement as well as Core Curriculum Area IV.
2 If not taken in Core Curriculum Area III

Major Requirements for Secondary Education

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations &amp; Professional Studies 1</td>
<td></td>
</tr>
<tr>
<td>EDU 200 Education as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td>2</td>
</tr>
<tr>
<td>ECY 300 Survey of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362 Foundations of Education I: Social, Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363 Foundations of Education II: Psychological</td>
<td>3</td>
</tr>
<tr>
<td>EHS 401 Secondary Education Curriculum and Methods</td>
<td>3</td>
</tr>
<tr>
<td>Secondary Education Courses 2</td>
<td></td>
</tr>
<tr>
<td>EDR 442 Reading in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>EHS 456 Classroom Management in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EHS 467 Secondary Science Methods</td>
<td>3</td>
</tr>
<tr>
<td>EHS 497 Special Problems in Education (Diversity)</td>
<td>3</td>
</tr>
<tr>
<td>EPR 410 Measurement and Evaluation in Education</td>
<td>3</td>
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</table>

Internship

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 489 Internship Seminar in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>EHS 490 Secondary School Student Teaching I</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
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</tr>
</tbody>
</table>

1 Required for admission to TEP
2 Admission to TEP required

Major Requirements for Biology

See current checklist for Biology Certification in the Office of Student Services within the School of Education. See the requirements for a Biology major within the catalog listing for the College of Arts and Sciences. You should confer with advisors in Education and CAS about specific biology requirements for teacher certification.

Secondary Education/General Science

This program is a major in secondary education and leads to teacher certification in General Science. Students wishing to teach biology only should see the previous section entitled “Secondary Education/Biology.”

Core Curriculum for Secondary Education/General Science

Refer to Core Curriculum (p. 294)

Lower Division Requirements for Secondary Education/General Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 1</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Additional Math 2</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
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</tr>
<tr>
<td>Chemistry Requirements</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118 General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 236 Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 238 Organic Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>Physics Requirements</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>8</td>
</tr>
<tr>
<td>PH 201 College Physics I</td>
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<tr>
<td>&amp; PH 202 College Physics II</td>
<td></td>
</tr>
<tr>
<td>PH 221 General Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PH 222 General Physics II</td>
<td></td>
</tr>
<tr>
<td>Physical Geology</td>
<td></td>
</tr>
<tr>
<td>ES 101 Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; ES 102 Physical Geology Laboratory</td>
<td></td>
</tr>
<tr>
<td>Astronomy</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4</td>
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<tr>
<td>AST 101 Astronomy of the Universe</td>
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</tr>
<tr>
<td>&amp; AST 111 Astronomy of the Universe Laboratory</td>
<td></td>
</tr>
<tr>
<td>AST 102 Astronomy of Stellar Systems</td>
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</tr>
<tr>
<td>&amp; AST 112 Astronomy of Stellar Systems Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Major Requirements for Secondary Education

Requirements | Hours
--- | ---
**Foundations & Professional Studies**^1^ | 
EDU 200 | Education as a Profession | 3
HPE 200 | Quality of Life | 2
ECY 300 | Survey of Special Education | 3
EDF 362 | Foundations of Education I: Social, Historical, Philosophical | 3
EPR 363 | Foundations of Education II: Psychological | 3
EHS 401 | Secondary Education Curriculum and Methods | 3

**Secondary Education Courses**^2^ | 
EHS 456 | Classroom Management in Secondary Schools | 3
EHS 467 | Secondary Science Methods | 3
EHS 497 | Special Problems in Education (Diversity) | 3
EPR 410 | Measurement and Evaluation in Education | 3
EDR 442 | Reading in Content Areas | 3

**Internship** | 
EHS 489 | Internship Seminar in Secondary Education | 3
EHS 490 | Secondary School Student Teaching I | 6

Total Hours | 41

---

^1^ Required for TEP Admission

^2^ Admission to TEP required

---

Major Requirements for Biology as part of the General Science Curriculum.

See current checklist from the Office of Student Services. Consult with advisors in Education and CAS about specific Biology requirements.

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Secondary Education/Chemistry

Core Curriculum for Secondary Education/Chemistry

Refer to Core Curriculum (p. 294)

Lower Division Requirements for Secondary Education/Chemistry

Requirements | Hours
--- | ---
**Psychology**^1^ | 
PY 101 | Introduction to Psychology | 3

**Additional Math** | 
MA 125 | Calculus I^2^ | 4
MA 126 | Calculus II | 4

**Biology Requirements** | 
BY 123 | Introductory Biology I | 4

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^1^ Required for TEP Admission

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Major Requirements for Chemistry

See current checklist for Chemistry certification in the Office of Student Services. See the requirements for a Chemistry major within the catalog listings for CAS. You should consult with advisors in Education and CAS about specific chemistry requirements.

Secondary Education/English

This curriculum results in a major in secondary education with teacher certification in English language arts.

Core Curriculum for Secondary Education/English

Refer to Core Curriculum (p. 294)
Lower Division Requirements for Secondary Education/English

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Mass Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 103 History of Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>CMST 210 Newswriting and Reporting I</td>
<td>3</td>
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<td>Total Hours</td>
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</table>

1 If not taken in Core Curriculum Area IV

Major Requirements for Secondary Education

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations &amp; Professional Studies</td>
<td></td>
</tr>
<tr>
<td>EDU 200 Education as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td>2</td>
</tr>
<tr>
<td>ECY 300 Survey of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362 Foundations of Education I: Social, Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363 Foundations of Education II: Psychological</td>
<td>3</td>
</tr>
<tr>
<td>EHS 401 Secondary Education Curriculum and Methods</td>
<td>3</td>
</tr>
<tr>
<td>Secondary Education Courses</td>
<td></td>
</tr>
<tr>
<td>EHS 456 Classroom Management in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EHS 466 Language Arts Methods</td>
<td>3</td>
</tr>
<tr>
<td>EHS 497 Special Problems in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDR 442 Reading in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>EHS 489 Internship Seminar in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>EHS 490 Secondary School Student Teaching I</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>41</td>
</tr>
</tbody>
</table>

1 Admission to TEP required

Major Requirements for English

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 301 Reading, Writing, and Research for English Majors</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 217 World Literature I: Before 1660</td>
<td></td>
</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 223 American Literature I: Before 1865</td>
<td></td>
</tr>
<tr>
<td>EH 224 American Literature II: 1865-Present</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 405 Poetry Writing Workshop</td>
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</tr>
<tr>
<td>EH 406 Poetry Writing Workshop</td>
<td></td>
</tr>
<tr>
<td>EH 407 Creative Nonfiction Writing Workshop</td>
<td></td>
</tr>
<tr>
<td>EH 408 Creative Nonfiction Writing Workshop</td>
<td></td>
</tr>
<tr>
<td>EH 409 Fiction Writing Workshop</td>
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</tr>
<tr>
<td>EH 410 Fiction Writing Workshop</td>
<td></td>
</tr>
<tr>
<td>EH 417 Workshop in Writing for Young People</td>
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<tr>
<td>EH 418 Workshop in Writing for Young People</td>
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</tr>
<tr>
<td>EH 429 Creative Writing: Special Topics</td>
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</tr>
<tr>
<td>EH 435 Teaching Creative Writing</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 401 Tutoring Creative Writing</td>
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<tr>
<td>EH 402 Writing in Popular Periodicals</td>
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<tr>
<td>EH 403 Business Writing</td>
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<tr>
<td>EH 404 Technical Writing</td>
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</tr>
<tr>
<td>EH 457 Writing and Medicine</td>
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</tr>
<tr>
<td>EH 430 Professional Writing: Special Topics</td>
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<tr>
<td>EH 433 Academic Writing</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>EH 419 Young Adult Literature</td>
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<tr>
<td>EDR 441 Literature for Adolescents</td>
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</tr>
<tr>
<td>EH 476 Shakespeare</td>
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</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 469 Medieval Culture: Literature and Society</td>
<td></td>
</tr>
<tr>
<td>EH 470 Arthurian Legend</td>
<td></td>
</tr>
<tr>
<td>EH 471 Beowulf in Context</td>
<td></td>
</tr>
<tr>
<td>EH 473 Chaucer: Pilgrimage to Canterbury</td>
<td></td>
</tr>
<tr>
<td>EH 474 English Renaissance Drama (Excluding Shakespeare)</td>
<td></td>
</tr>
<tr>
<td>EH 475 English Renaissance Poetry and Prose</td>
<td></td>
</tr>
<tr>
<td>EH 478 Milton</td>
<td></td>
</tr>
<tr>
<td>EH 480 The Restoration</td>
<td></td>
</tr>
<tr>
<td>EH 481 The Eighteenth Century: Literature and Culture</td>
<td></td>
</tr>
<tr>
<td>EH 482 The Eighteenth Century: Theory and Interpretation</td>
<td></td>
</tr>
<tr>
<td>EH 483 British Romanticism</td>
<td></td>
</tr>
<tr>
<td>EH 485 British Victorian Poetry</td>
<td></td>
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<tr>
<td>EH 486 Eighteenth-Century British Novel</td>
<td></td>
</tr>
<tr>
<td>EH 487 Nineteenth-Century British Novel</td>
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<tr>
<td>EH 488 British Novel: The Modern Age</td>
<td></td>
</tr>
<tr>
<td>EH 489 James Joyce</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 460 American Women Writers Before 1900</td>
<td></td>
</tr>
<tr>
<td>EH 461 American Literature, 1620 - 1820</td>
<td></td>
</tr>
<tr>
<td>EH 462 American Literature, 1820 - 1870</td>
<td></td>
</tr>
<tr>
<td>EH 463 American Literature, 1870 - 1914</td>
<td></td>
</tr>
<tr>
<td>EH 416 Modern American Poetry</td>
<td></td>
</tr>
<tr>
<td>EH 442 Literary Theory and Criticism, the Twentieth Century to the Present</td>
<td></td>
</tr>
<tr>
<td>EH 444 Women’s Literature and Theory</td>
<td></td>
</tr>
<tr>
<td>EH 464 American Literature, 1914 - 1945</td>
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<tr>
<td>EH 465 American Literature, 1945-Present</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>EH 366 African American Literature, 1954-Present</td>
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</tr>
<tr>
<td>EH 488 The Harlem Renaissance</td>
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</tr>
<tr>
<td>EH 365 African American Literature, 1746-1954</td>
<td></td>
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<tr>
<td>EH 366 African American Literature, 1954-Present</td>
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<tr>
<td>EH 420 World Literature</td>
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<tr>
<td>EH 421 World Literature</td>
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<tr>
<td>EH 422 African Literature</td>
<td></td>
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<tr>
<td>EH 423 African Women’s Literature</td>
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<tr>
<td>EH 424 African-American Special Topics</td>
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<tr>
<td>EH 445 Special Topics in African American Literature</td>
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</tr>
<tr>
<td>EH 447 African American Dramatic Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 448 African American Poetry Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 466 The Slave Narrative and Its Literary Expressions</td>
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</tr>
</tbody>
</table>
Select one of the following:  
- EH 350 Introduction to Linguistics  
- EH 351 Structure of English  
- EH 452 Grammar and Usage for English Teachers  
Total Hours 36

Refer to Core Curriculum (p. 294)

**Lower Division Requirements for High School Education/French Double Major**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Psychology</strong></td>
<td>3</td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td><strong>French</strong></td>
<td>4</td>
</tr>
<tr>
<td>FR 101 Introductory French I</td>
<td></td>
</tr>
<tr>
<td>FR 102 Introductory French II</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>11</td>
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1. If not taken in Core Curriculum Area IV

**Major Requirements for High School Education**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations &amp; Professional Studies</strong></td>
<td>3</td>
</tr>
<tr>
<td>EDU 200 Education as a Profession</td>
<td></td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td></td>
</tr>
<tr>
<td>EGY 300 Survey of Special Education</td>
<td></td>
</tr>
<tr>
<td>EDF 362 Foundations of Education I: Social, Historical, Philosophical</td>
<td></td>
</tr>
<tr>
<td>EPR 363 Foundations of Education II: Psychological</td>
<td></td>
</tr>
<tr>
<td>EDT 300 Teaching and Technology</td>
<td></td>
</tr>
<tr>
<td><strong>Secondary Education Courses</strong></td>
<td>3</td>
</tr>
<tr>
<td>EHS 401 Secondary Education Curriculum and Methods</td>
<td></td>
</tr>
<tr>
<td>EHS 456 Classroom Management in Secondary Schools</td>
<td></td>
</tr>
<tr>
<td>EFL 485 Foreign/Sec Language Methods</td>
<td></td>
</tr>
<tr>
<td>EPR 411 Measurement and Evaluation in Education</td>
<td></td>
</tr>
<tr>
<td>EDR 442 Reading in Content Areas</td>
<td></td>
</tr>
<tr>
<td><strong>Internship</strong></td>
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</tr>
<tr>
<td>EFL 498 Student Teaching in Foreign Language N-12</td>
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<tr>
<td>EFL 499 Internship in Foreign Language Education Seminar</td>
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</tr>
<tr>
<td>Total Hours</td>
<td>43</td>
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1. Admission to TEP required

**Lower Division Requirements for High School Education/Spanish Double Major**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Psychology</strong></td>
<td>3</td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
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</tr>
<tr>
<td><strong>Spanish</strong></td>
<td>4</td>
</tr>
<tr>
<td>SPA 101 Introductory Spanish I /QL</td>
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</tr>
<tr>
<td>SPA 102 Introductory Spanish II</td>
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</tr>
<tr>
<td>Total Hours</td>
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</tr>
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</table>

1. If not taken in Area IV

**Major Requirements for French**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foreign Cultures</strong></td>
<td>3</td>
</tr>
<tr>
<td>FLL 120 Foreign Cultures</td>
<td></td>
</tr>
<tr>
<td><strong>Additional Introductory Foreign Language Course</strong></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ARA 101 Introductory Arabic I</td>
<td></td>
</tr>
<tr>
<td>CHI 101 Introductory Chinese I</td>
<td></td>
</tr>
<tr>
<td>JPA 101 Introductory Japanese I</td>
<td></td>
</tr>
<tr>
<td><strong>Literature</strong></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>FLL 220 Foreign Literatures in English Translation</td>
<td></td>
</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td></td>
</tr>
</tbody>
</table>

**Linguistics**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 350 Introduction to Linguistics</td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Language Seminar**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 485 Foreign Language Capstone Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Study Abroad/Foreign Language Internship**

Select six hours of the following:  
- FR 290 Study Abroad  
- FR 390 Study Abroad  
- FR 490 Study Abroad  
- FLL 333 Foreign Language Internship/SL  

**French Electives 200-level**

See your Academic Advisor

**French Electives 400-level**

Select 3 courses from UAB. See your academic advisor.

Total Hours 54

Refer to Core Curriculum (p. 294)

**Lower Division Requirements for High School Education**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations &amp; Professional Studies</strong></td>
<td>3</td>
</tr>
<tr>
<td>EDU 200 Education as a Profession</td>
<td></td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td></td>
</tr>
<tr>
<td>EGY 300 Survey of Special Education</td>
<td></td>
</tr>
<tr>
<td>EDF 362 Foundations of Education I: Social, Historical, Philosophical</td>
<td></td>
</tr>
</tbody>
</table>

**Major Requirements for High School Education**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations &amp; Professional Studies</strong></td>
<td>3</td>
</tr>
<tr>
<td>EDU 200 Education as a Profession</td>
<td></td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td></td>
</tr>
<tr>
<td>EGY 300 Survey of Special Education</td>
<td></td>
</tr>
<tr>
<td>EDF 362 Foundations of Education I: Social, Historical, Philosophical</td>
<td></td>
</tr>
</tbody>
</table>

**Linguistics**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 350 Introduction to Linguistics</td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Language Seminar**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 485 Foreign Language Capstone Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Study Abroad/Foreign Language Internship**

Select six hours of the following:  
- FR 290 Study Abroad  
- FR 390 Study Abroad  
- FR 490 Study Abroad  
- FLL 333 Foreign Language Internship/SL  

**French Electives 200-level**

See your Academic Advisor

**French Electives 400-level**

Select 3 courses from UAB. See your academic advisor.

Total Hours 54

1. If not taken in Core Curriculum Area IV

**Major Requirements for French**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foreign Cultures</strong></td>
<td>3</td>
</tr>
<tr>
<td>FLL 120 Foreign Cultures</td>
<td></td>
</tr>
<tr>
<td><strong>Additional Introductory Foreign Language Course</strong></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ARA 101 Introductory Arabic I</td>
<td></td>
</tr>
<tr>
<td>CHI 101 Introductory Chinese I</td>
<td></td>
</tr>
<tr>
<td>JPA 101 Introductory Japanese I</td>
<td></td>
</tr>
<tr>
<td><strong>Literature</strong></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>FLL 220 Foreign Literatures in English Translation</td>
<td></td>
</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td></td>
</tr>
</tbody>
</table>

**Linguistics**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 350 Introduction to Linguistics</td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Language Seminar**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 485 Foreign Language Capstone Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Study Abroad/Foreign Language Internship**

Select six hours of the following:  
- FR 290 Study Abroad  
- FR 390 Study Abroad  
- FR 490 Study Abroad  
- FLL 333 Foreign Language Internship/SL  

**French Electives 200-level**

See your Academic Advisor

**French Electives 400-level**

Select 3 courses from UAB. See your academic advisor.

Total Hours 54

1. If not taken in Area IV
### Secondary Education Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 401</td>
<td>Secondary Education Curriculum and Methods</td>
<td>3</td>
</tr>
<tr>
<td>EHS 456</td>
<td>Classroom Management in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EFL 485</td>
<td>Foreign/Sec Language Methods</td>
<td>4</td>
</tr>
<tr>
<td>EPR 411</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDR 442</td>
<td>Reading in Content Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

### Internship

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFL 498</td>
<td>Student Teaching in Foreign Language N-12</td>
<td>9</td>
</tr>
<tr>
<td>EFL 499</td>
<td>Internship in Foreign Language Education Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Hours: 43

1 Admission to TEP required

### Major Requirements for Spanish

#### Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Cultures 1</td>
<td></td>
</tr>
<tr>
<td>FLL 120 Foreign Cultures</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Additional Introductory Foreign Language Course

Select one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARA 101</td>
<td>Introductory Arabic I</td>
<td>3</td>
</tr>
<tr>
<td>CHI 101</td>
<td>Introductory Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>FR 101</td>
<td>Introductory French I</td>
<td>3</td>
</tr>
<tr>
<td>JPA 101</td>
<td>Introductory Japanese I</td>
<td>3</td>
</tr>
<tr>
<td>GN 101</td>
<td>Introductory German I</td>
<td>3</td>
</tr>
<tr>
<td>ITL 101</td>
<td>Introductory Italian I</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Literature

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 220</td>
<td>Foreign Literatures in English Translation</td>
<td>3</td>
</tr>
<tr>
<td>EH 218</td>
<td>World Literature II: 1660-Present</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Linguistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Foreign Language Seminar

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 485</td>
<td>Foreign Language Capstone Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Study Abroad/Foreign Language Internship

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 290</td>
<td>Study Abroad</td>
<td>6</td>
</tr>
<tr>
<td>SPA 390</td>
<td>Study Abroad</td>
<td>6</td>
</tr>
<tr>
<td>SPA 490</td>
<td>Study Abroad</td>
<td>6</td>
</tr>
<tr>
<td>FLL 333</td>
<td>Foreign Language Internship/SL</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Spanish

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 201</td>
<td>Intermediate Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPA 202</td>
<td>Intermediate Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPA 210</td>
<td>Conversation and Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPA 300</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPA 304</td>
<td>Phonetics and Phonology</td>
<td>3</td>
</tr>
<tr>
<td>SPA 311</td>
<td>Survey of Spanish Peninsular Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPA 312</td>
<td>Survey of Latin American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Spanish Electives 200-level

See your Academic Advisor

#### Spanish Electives 400-level

Select 3 courses from UAB. See your academic advisor.

Total Hours: 54

### Secondary Education/General Social Science

This curriculum results in a major in secondary education, with teacher certification in general social science. A history major may also be obtained by completing requirements specific to that major.

### Core Curriculum for Secondary Education/General Social Science

Refer to Core Curriculum (p. 294)

### Lower Division Requirements for Secondary Education/General Social Science Major

#### Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Social &amp; Behavioral Science</td>
<td></td>
</tr>
<tr>
<td>PSC 101 Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSC 221 American State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 221 Geography of North America</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12

### Upper Division Requirements for Secondary Education/General Social Science Major

#### Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>EC 440 Economics for Educators</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 3

### Major Requirements for Secondary Education

#### Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations &amp; Professional Studies 1</td>
<td></td>
</tr>
<tr>
<td>EDU 200 Education as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td>2</td>
</tr>
<tr>
<td>ECY 300 Survey of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362 Foundations of Education I: Social, Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363 Foundations of Education II: Psychological</td>
<td>3</td>
</tr>
<tr>
<td>EHS 401 Secondary Education Curriculum and Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Secondary Education Courses 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 456</td>
<td>Classroom Management in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EHS 468</td>
<td>Secondary Social Sci Methods</td>
<td>3</td>
</tr>
<tr>
<td>EHS 497</td>
<td>Special Problems in Education (Diversity)</td>
<td>3</td>
</tr>
<tr>
<td>EPR 410</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDR 442</td>
<td>Reading in Content Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Internship

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 489</td>
<td>Internship Seminar in Secondary Education</td>
<td>3</td>
</tr>
</tbody>
</table>

1 If not taken in Area II
EHS 490  Secondary School Student Teaching I  6

Total Hours  41

1  Required for TEP Admission
2  Admission to TEP required

**Major Requirements in History**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td>HY 101</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civilization II</td>
</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>HY 225</td>
<td>History of Alabama</td>
</tr>
<tr>
<td>HY 300</td>
<td>The Historian's Craft</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

For other history courses see the current checklist in the Offices of Student Services within the School of Education. See the requirements for a history major within the catalog listings for the College of Arts and Sciences. You should confer with advisors in Education and CAS about specific history requirements. Students seeking teacher certification may have more specific requirements than non-certification students.

**Secondary Education/Mathematics**

**Core Curriculum for Secondary Education/Mathematics**

Refer to Core Curriculum (p. 294)

**Lower Division Requirements for Secondary Education/Mathematics Major**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Psychology</strong></td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>Introduction to Psychology ¹</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

¹  If not taken in Core Curriculum Area IV

**Major Requirements for Secondary Education**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations &amp; Professional Studies</strong> ¹</td>
<td></td>
</tr>
<tr>
<td>EDU 200</td>
<td>Education as a Profession</td>
</tr>
<tr>
<td>HPE 200</td>
<td>Quality of Life</td>
</tr>
<tr>
<td>ECY 300</td>
<td>Survey of Special Education</td>
</tr>
<tr>
<td>EDF 362</td>
<td>Foundations of Education I: Social, Historical, Philosophical</td>
</tr>
<tr>
<td>EPR 363</td>
<td>Foundations of Education II: Psychological</td>
</tr>
<tr>
<td>EHS 401</td>
<td>Secondary Education Curriculum and Methods</td>
</tr>
<tr>
<td><strong>Secondary Education Courses</strong> ²</td>
<td></td>
</tr>
<tr>
<td>EHS 456</td>
<td>Classroom Management in Secondary Schools</td>
</tr>
<tr>
<td>EHS 465</td>
<td>Secondary Math Methods</td>
</tr>
<tr>
<td>EHS 497</td>
<td>Special Problems in Education (Diversity)</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

¹  If not taken in Core Curriculum Area IV

2  Admission to TEP required

**Major Requirements for Mathematics**

See current checklist for Mathematics certification in the Offices of Student Services within the School of Education. See requirements for a Mathematics major within the catalog listings for the College of Arts and Sciences. You should confer with advisors in Education and CAS about specific requirements for certification in Mathematics.

**Secondary Education/Physics**

**Core Curriculum for Secondary Education/Physics**

Refer to Core Curriculum (p. 294)

**Lower Division Requirements for Secondary Education/Physics Major**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Psychology</strong></td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>Introduction to Psychology ¹</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>MA 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MA 227</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MA 252</td>
<td>Introduction to Differential Equations</td>
</tr>
<tr>
<td><strong>Mathematics Electives (200 Level or Higher)</strong></td>
<td>Must be approved by faculty advisor</td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 115</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CH 116</td>
<td>General Chemistry I Laboratory</td>
</tr>
<tr>
<td>CH 117</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CH 118</td>
<td>General Chemistry II Laboratory</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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</table>

¹  If not taken in Core Curriculum Area IV
Secondary Education Courses  

- EHS 456 Classroom Management in Secondary Schools 3
- EHS 467 Secondary Science Methods 3
- EHS 497 Special Problems in Education (Diversity) 3
- EPR 410 Measurement and Evaluation in Education 3
- EDR 442 Reading in Content Areas 3

**Internship**

- EHS 489 Internship Seminar in Secondary Education 3
- EHS 490 Secondary School Student Teaching I 6

**Total Hours** 41

---

1. Required for TEP Admission
2. Admission to TEP required

**Major Requirements for Physics**

See current checklist for Physics certification in the Office of Student Services within the School of Education. See requirements for a Physics major within the catalog listings for the College of Arts and Sciences. You should consult with advisors in Education and CAS about specific Physics courses required for teacher certification.

**Proposed Program of Study in Early Childhood and Elementary Education**

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 100</td>
<td>2-3</td>
<td>CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
<td>Core Curriculum Area III: Natural Science with Laboratory (non-biology)</td>
<td>4</td>
</tr>
<tr>
<td>BY 101</td>
<td>4</td>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BY 102¹</td>
<td>3</td>
<td>MA 110</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 102 (or Core Curriculum Area III: Mathematics)</td>
<td></td>
<td>15-16</td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3</td>
<td>ECY 300</td>
<td>3</td>
</tr>
<tr>
<td>EEC 440</td>
<td>3</td>
<td>HPE 200</td>
<td>2</td>
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**Junior**

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**Total credit hours:** 126-131

**Proposed Program of Study in Secondary Education/Biology**

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**Sophomore**

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**Junior**

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**Senior**

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**Total credit hours:** 143-147

1. Organismal Biology Select One: BY 255, BY 256, BY 260, BY 271 or BY 442.
2. Ecology/Evolution select one: BY 407, BY 429, BY 435 or BY 470.
3. Biology Elective (400 level)
Proposed Program of Study in Secondary Education/General Science

### Freshman

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### Sophomore

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### Junior

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### Senior

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### Total credit hours: 144-147

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Proposed Program of Study in Secondary Education/Chemistry

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### Sophomore

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<td>CH 235 &amp; 236</td>
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### Junior

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### Senior

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### Total credit hours: 141-142

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Proposed Program of Study in Secondary Education/General Social Science

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### Total credit hours: 144-147

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1. Select One: AST 101 & AST 111, AST 102 & AST 112 or AST 103 & AST 113.
2. Organismal Biology select one: BY 255, BY 256, BY 260, BY 271 or BY 442
3. Ecology/Evolution select one: BY 407, BY 429, BY 435 or BY 470.
4. Physiology/Development select one: BY 314, BY 405, BY 409, BY 410 or BY 450.
# School of Education

## Sophomore
### First Term
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<td>HY 120</td>
<td>3 HY 121</td>
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**Total: 18**

### Junior
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**Total: 18**

### Senior
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<td>EDR 442</td>
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**Total: 18**

**Total credit hours: 130**

1 Non-Western History Select One: HY 271, HY 476 or HY 477.

## Proposed Program of Study in Secondary Education/Mathematics

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**Total: 16**

### Sophomore
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**Total: 20**

### Junior
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<td>PH 461</td>
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**Total: 20**

**Total credit hours: 121**

## Proposed Program of Study in Secondary Education/Physics

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<tr>
<td>PH 221</td>
<td>4 Core Curriculum Area IV: History &amp; 221L</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td>3 PY 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3 EH 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 125</td>
<td>4 Core Curriculum Area II: Humanities and Fine Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 126</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total: 17**

### Sophomore
### First Term
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3 EDF 362</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 227</td>
<td>4 CH 117 &amp; CH 118</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CH 115</td>
<td>4 CMST 101 &amp; CH 116</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PH 351</td>
<td>4 MA 252</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3 PH 352</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>HPE 200</td>
<td>2 Core Curriculum Area II: Literature</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total: 20**

### Junior
### First Term
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR 363</td>
<td>3 EHS 497</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EHS 401</td>
<td>3 EHS 456</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PH 461</td>
<td>3 EDR 442</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PH 445</td>
<td>3 PH 462</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
The University of Alabama at Birmingham

### Core Curriculum Area IV: Social and Behavioral Science (non-history)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 446</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECY 300</td>
<td>3 Math Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

#### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 467</td>
<td>3</td>
<td>EHS 489</td>
<td>3</td>
</tr>
<tr>
<td>EPR 410</td>
<td>3</td>
<td>EHS 490</td>
<td>6</td>
</tr>
<tr>
<td>PH 331 or 432</td>
<td>3</td>
<td>PH 451</td>
<td>3</td>
</tr>
<tr>
<td>PH 450</td>
<td>3</td>
<td>Physics Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Total credit hours: 140

---

### Minor in Education

#### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3</td>
</tr>
<tr>
<td>EDT 300</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362</td>
<td>3</td>
</tr>
<tr>
<td>EDF 363</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two of the courses below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 497</td>
<td>6</td>
</tr>
<tr>
<td>EEC 302</td>
<td></td>
</tr>
<tr>
<td>EEC 440</td>
<td></td>
</tr>
<tr>
<td>EDU 300</td>
<td></td>
</tr>
<tr>
<td>EPR 214</td>
<td></td>
</tr>
<tr>
<td>EPR 414</td>
<td></td>
</tr>
<tr>
<td>HE 342</td>
<td></td>
</tr>
<tr>
<td>HE 402</td>
<td></td>
</tr>
<tr>
<td>HE 404</td>
<td></td>
</tr>
<tr>
<td>HE 408</td>
<td></td>
</tr>
<tr>
<td>KIN 305</td>
<td></td>
</tr>
<tr>
<td>KIN 407</td>
<td></td>
</tr>
<tr>
<td>EMS 330</td>
<td></td>
</tr>
<tr>
<td>EMS 352</td>
<td></td>
</tr>
</tbody>
</table>

Only students who are formally admitted into the Teacher Education Program in Middle/Junior High Teaching may take EMS 330 and EMS 352, and these must be taken AFTER admission to TEP.

The Minor in Education will require a total of 18 hours.

---

### Department of Human Studies

**Chair:** Kristi Menear

The Department of Human Studies offers undergraduate majors in both Health Education and Kinesiology (formerly Physical Education). Health Education majors choose between two concentrations: Community Health (non-teaching) or Human Services (non-teaching). Kinesiology majors choose among three concentrations: Physical Education Teacher Certification (grades P-12), Fitness Leadership (non-teaching), or Exercise Science (non-teaching). Programs leading to degrees and/or certificates in Counseling and Educational Leadership are offered at the graduate level.

Students should contact the Office of Student Services, Suite 232, Education Building, (205) 934-7530, early in their studies to obtain the name of their advisor and pertinent program information related to the Core Curriculum. Students should consult their advisor prior to each registration period for the appropriate guidance (e.g., students are expected to take courses in the appropriate sequence, including prerequisites).

### Major in Health Education with a Community Health Concentration

Refer to Core Curriculum (p. 294)

#### Lower Division Requirements Health Education Major: Community Health Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Health Education</td>
<td></td>
</tr>
<tr>
<td>HE 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HE 141 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>EPR 214 Introduction to Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td></td>
</tr>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 20

### Major Requirements for Health Education: Community Health Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education Courses</td>
<td></td>
</tr>
<tr>
<td>EPR 414 Lifespan Human Development</td>
<td>3</td>
</tr>
<tr>
<td>Health Education Courses</td>
<td></td>
</tr>
<tr>
<td>HE 223 Introduction to Epidemiology and Disease Impact</td>
<td>3</td>
</tr>
<tr>
<td>HE 342 Introduction to Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HE 343 Theory and Determin of Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HE 421 Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>HE 431 Planning and Implementing Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HE 432 Administration of Health Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>HE 452 Evaluation and Grantsmanship</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Health Education Electives

Select three of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 402 Mental Health and Stress Management</td>
<td>9</td>
</tr>
<tr>
<td>HE 404 Global Trends in Health Education</td>
<td></td>
</tr>
<tr>
<td>HE 408 Drug Use and Abuse</td>
<td></td>
</tr>
<tr>
<td>HE 423 Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>HE 490 Special Projects in Health Education/SL</td>
<td></td>
</tr>
<tr>
<td>HE 491 Problems in Health Education</td>
<td></td>
</tr>
</tbody>
</table>

#### Internship

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 499 Health Education Internship</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Hours: 42
Major in Health Education with a Human Services Concentration

Refer to Core Curriculum (p. 294)

Lower Division Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 221  American State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>PY 212  Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HE 140  First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HE 141  Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>NTR 222  Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>EPR 214  Introduction to Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Major Requirements for Health Education Major with a Human Services Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR 350  Introduction to Human Services</td>
<td>4</td>
</tr>
<tr>
<td>HE 223  Introduction to Epidemiology and Disease Impact</td>
<td>3</td>
</tr>
<tr>
<td>HE 342  Introduction to Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HE 343  Theory and Treatment of Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 302  Management Processes and Health/SL</td>
<td>3</td>
</tr>
<tr>
<td>EPR 415  Case Management</td>
<td>3</td>
</tr>
<tr>
<td>EPR 420  Communication Skills in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>EPR 425  Community Resource Identification/Mobilization in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HE 402  Mental Health and Stress Management</td>
<td>3</td>
</tr>
<tr>
<td>AC 200  Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>EPR 414  Lifespan Human Development</td>
<td>3</td>
</tr>
<tr>
<td>HE 431  Planning and Implementing Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HE 452  Evaluation and Grantsmanship</td>
<td>3</td>
</tr>
<tr>
<td>EPR 455  Fund Raising in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSC 222  Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>EPR 461  Leadership in Non-Profit Administration</td>
<td>3</td>
</tr>
<tr>
<td>EPR 490  Internship in Human Services</td>
<td>6</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select two of the following courses:</td>
<td></td>
</tr>
<tr>
<td>HE 404  Global Trends in Health Education</td>
<td></td>
</tr>
<tr>
<td>HE 408  Drug Use and Abuse</td>
<td></td>
</tr>
<tr>
<td>HE 423  Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>HE 432  Administration of Health Education Programs</td>
<td></td>
</tr>
<tr>
<td>JS 101  Crime and Criminality</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>61</strong></td>
</tr>
</tbody>
</table>

Kinesiology Programs

Students majoring in Kinesiology may choose from three concentrations: teacher certification, exercise science, and fitness leadership. The teacher certification program prepares students for entry into teaching positions in grades P-12. The exercise science program prepares students for graduate work in exercise physiology or health-related careers such as physical therapy and occupational therapy. The fitness leadership program prepares students to be fitness leaders in fitness centers, clinics, or industrial settings.

Kinesiology Major: Teacher Certification Concentration

A grade of "C" or better is required in all math, science, and major courses.

Core Curriculum for Kinesiology Major: Teacher Certification Concentration

Refer to Core Curriculum (p. 294)

Lower Division Requirements Kinesiology Major with a Teacher Certification Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 115  Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116  Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HE 140  First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>EPR 214  Introduction to Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Health</td>
<td></td>
</tr>
<tr>
<td>HPE 200  Quality of Life</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

1  See program policy for waiver.
2  If not taken in Core Curriculum: Area IV

Major Requirements for Kinesiology with a Teacher Certification Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations &amp; Professional Studies</td>
<td></td>
</tr>
<tr>
<td>EDU 200  Education as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>EDT 300  Teaching and Technology</td>
<td>3</td>
</tr>
<tr>
<td>ECY 300  Survey of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362  Foundations of Education I: Social, Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363  Foundations of Education II: Psychological</td>
<td>3</td>
</tr>
<tr>
<td>Pre-TEP Major Requirements</td>
<td></td>
</tr>
<tr>
<td>Kinesiology Courses</td>
<td></td>
</tr>
</tbody>
</table>

Aquatics

Select one of the following aquatics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 101  Beginning and Advanced Beginning Swimming</td>
<td>1</td>
</tr>
<tr>
<td>KIN 102  Intermediate Swimming/Swimmer Course</td>
<td>1</td>
</tr>
<tr>
<td>KIN 103  Lifeguard Training</td>
<td>1</td>
</tr>
<tr>
<td>KIN 112  Dance and Gymnastics</td>
<td>1</td>
</tr>
<tr>
<td>KIN 114  Rec Games/Outdoor Leisure</td>
<td>1</td>
</tr>
<tr>
<td>KIN 115  Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KIN 117  Team Sports</td>
<td>1</td>
</tr>
<tr>
<td>KIN 118  Sports Using Implements</td>
<td>1</td>
</tr>
<tr>
<td>KIN 131  Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>KIN 132  Group Exercise Leadership</td>
<td>1</td>
</tr>
</tbody>
</table>
### Lower Division Requirements for a Kinesiology Major with a Exercise Science Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>First Aid</td>
<td></td>
</tr>
<tr>
<td>HE 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Personal Health</td>
<td></td>
</tr>
<tr>
<td>HE 141 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>EPR 214 Introduction to Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>If not taken in core, take the following:</td>
<td>0-10</td>
</tr>
<tr>
<td>CH 105 Introductory Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CH 106 Introductory Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>or CH 115 General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology (If not taken in core curriculum)</td>
<td></td>
</tr>
<tr>
<td>PH 201 College Physics I (If not taken in core curriculum)</td>
<td></td>
</tr>
</tbody>
</table>

### Kinesiology Major: Exercise Science Concentration

A grade of C or better is required in all math, science, and major courses. Note: UAB requires 120 total semester hours in order to graduate. Students with this major may need additional electives to meet this requirement.

### Core Curriculum for Kinesiology Major: Exercise Science Concentration

Refer to Core Curriculum (p. 294)

### Major Requirements for Kinesiology with an Exercise Science Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kinesiology</td>
<td></td>
</tr>
<tr>
<td>KIN 136 Intro to Physical Education Fitness and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KIN 115 Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KIN 307 Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400 Physiology of Exercise</td>
<td>4</td>
</tr>
<tr>
<td>KIN 405 Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KIN 485 Exercise Testing/Prescription</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
</tr>
<tr>
<td>Select three of the following courses:</td>
<td>8-9</td>
</tr>
<tr>
<td>KIN 402 Basic Athletic Training</td>
<td></td>
</tr>
<tr>
<td>KIN 305 Motor Development</td>
<td></td>
</tr>
<tr>
<td>KIN 440 Principles of Conditioning the Athlete</td>
<td></td>
</tr>
<tr>
<td>KIN 450 Physical Activity for Individuals with Disabilities/SL</td>
<td></td>
</tr>
<tr>
<td>KIN 451 Physical Activity for Senior Adults</td>
<td></td>
</tr>
<tr>
<td>KIN 460 Clinical Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>KIN 470 Advanced Treatment Athletic Training</td>
<td></td>
</tr>
<tr>
<td>KIN 499 Fitness Internship</td>
<td></td>
</tr>
<tr>
<td>Aquatics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>KIN 101 Beginning and Advanced Beginning Swimming</td>
<td></td>
</tr>
<tr>
<td>KIN 102 Intermediate Swimming/Swimmer Course</td>
<td></td>
</tr>
<tr>
<td>KIN 103 Lifeguard Training</td>
<td></td>
</tr>
<tr>
<td>Kinesiology</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>KIN 131 Aerobics</td>
<td></td>
</tr>
<tr>
<td>KIN 132 Group Exercise Leadership</td>
<td></td>
</tr>
<tr>
<td>Major Elective Requirements</td>
<td></td>
</tr>
<tr>
<td>Select 15 to 17 hours of the following courses:</td>
<td>15-17</td>
</tr>
<tr>
<td>AHS 350 Medical Terminology for Health Professionals</td>
<td></td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>or PY 330 Sport Psychology</td>
<td></td>
</tr>
<tr>
<td>BY 123 Introductory Biology I</td>
<td></td>
</tr>
<tr>
<td>BY 124 Introductory Biology II</td>
<td></td>
</tr>
<tr>
<td>BY 210 Genetics</td>
<td></td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td></td>
</tr>
<tr>
<td>BY 271 Biology of Microorganisms</td>
<td></td>
</tr>
<tr>
<td>BY 314 Embryology</td>
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<td>BY 327 Histology</td>
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<td>BY 420 General Endocrinology</td>
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<tr>
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<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
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**School of Education**

**CH 117 & CH 118**  General Chemistry II and General Chemistry II Laboratory  
**CH 235 & CH 236**  Organic Chemistry I and Organic Chemistry I Laboratory  
**CH 237 & CH 238**  Organic Chemistry II and Organic Chemistry II Laboratory  
**CH 460**  Fundamentals of Biochemistry  
**MA 125**  Calculus I  
**MA 126**  Calculus II  
**PH 202**  College Physics II  
**PH 222**  General Physics II  

**Internship**  
**KIN 499**  Fitness Internship  

Total Hours  120-123

**Students need to take 5-22 hours of General Electives to reach the 120 hour requirement in order to graduate.**  

1. This elective is in addition to the 3 hours of KIN 499 in the Internship section. No more than a total of 6 hours of KIN 499 may be applied to the degree.

2. Courses taken may not be applied to both major requirements and core curriculum. A maximum of 10 hours of PH, MA, CH, or BY courses can be taken to meet this requirement.

3. Either PY 330 or PY 218 will count as a major elective

**Kinesiology Major: Fitness Leadership Concentration**

A grade of "C" or better is required in all math, science, and major courses. Note: UAB requires 120 total semester hours in order to graduate. Students with this major will need additional electives to meet this requirement.

**Core Curriculum for Kinesiology Major: Fitness Leadership Concentration**

Refer to Core Curriculum (p. 294)

**Lower Division Requirements Kinesiology Major: Fitness Leadership Concentration**

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<tr>
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<tr>
<td>EDT 300  Teaching and Technology</td>
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<td>or CS 101  Fluency With Information Technology</td>
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**Business Course**

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<tr>
<td>or BUS 102  Business Foundations</td>
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**Business Electives**

Select two of the following, may choose only one EC elective: 6

- FN 101  Personal Finance
- LS 246  Legal Environment of Business
- EC 210  Principles of Microeconomics
- EC 110  Economics and Society

Total Hours  33

1. See program policy for 0 credit waiver criteria.

**Major Requirements for Kinesiology with a Fitness Leadership Concentration**

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<td>KIN 103  Lifeguard Training</td>
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<td>KIN 115  Weight Training</td>
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<td>KIN 132  Group Exercise Leadership</td>
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<td>KIN 136  Intro to Physical Education Fitness and Sport</td>
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<td>KIN 305  Motor Development</td>
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<td>KIN 307  Applied Kinesiology</td>
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<td>KIN 340  Planning/Management of Fitness Facilities</td>
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<td>KIN 117  Team Sports</td>
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<td>KIN 124  Beginning Whitewater Kayaking</td>
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<td>PY 218  Abnormal Psychology 1</td>
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<td>or PY 330  Sport Psychology</td>
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1. See program policy for 0 credit waiver criteria.
**Health Education Community Health Concentration Proposed Program of Study**

**Freshman**

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**Sophomore**

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**Junior**

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**Total credit hours: 120**

**Kinesiology (Teacher Certification) Proposed Program of Study**

**Freshman**

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</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
<td>BY 115</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
<td>EPR 214</td>
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<tr>
<td></td>
<td></td>
<td>EDU 200</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>KIN 115</td>
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<td></td>
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<td></td>
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</tr>
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<td></td>
<td></td>
<td>Core Curriculum Area II: Literature</td>
<td></td>
<td></td>
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</table>

**Total credit hours: 120**

**Health Education Human Services Concentration Proposed Program of Study**

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
<td>CORE Curriculum Area II Literature Sequence</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>EH 101</td>
<td></td>
<td></td>
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<tr>
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<td></td>
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<td></td>
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<td>HE 141</td>
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<td></td>
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<td></td>
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**Sophomore**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
<td>KIN 117</td>
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<tr>
<td></td>
<td></td>
<td>EDU 200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td>3</td>
<td></td>
</tr>
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<td></td>
<td>Core Curriculum Area II: Literature (second in sequence)</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td>3</td>
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</table>

**Total credit hours: 120**

---

1 May not choose more than one Psychology elective

---
## Core Curriculum Area II:

**Fine Art**

<table>
<thead>
<tr>
<th>Junior</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>HPE 200</td>
<td>2</td>
<td>KIN 307</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECY 300</td>
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<td>KIN 112</td>
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</tr>
<tr>
<td></td>
<td>EPR 363</td>
<td>3</td>
<td>KIN 132</td>
<td>1</td>
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<tr>
<td></td>
<td>KIN 305</td>
<td>3</td>
<td>KIN 320</td>
<td>4</td>
</tr>
<tr>
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<td></td>
<td>KIN 201</td>
<td>2</td>
<td>KIN 311</td>
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**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 400</td>
<td>4</td>
<td>KIN 495</td>
<td>9</td>
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</table>

### Total credit hours: 131-132

---

**Kinesiology Exercise Science Concentration - Proposed Program of Study**

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDU 100</td>
<td>2-3 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 KIN 136</td>
<td>3</td>
</tr>
<tr>
<td>MA 106 or 125</td>
<td>3-4 BY 123</td>
<td>4</td>
</tr>
<tr>
<td>KIN 115</td>
<td>1 Core Curriculum Area IV: History</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3 Core Curriculum Area IV: Social and Behavioral Science (Non-History)</td>
<td>3</td>
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<tr>
<td>PY 101</td>
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</table>

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115</td>
<td>4 EPR 214</td>
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<tr>
<td>KIN 131</td>
<td>1 BY 116</td>
<td>4</td>
</tr>
<tr>
<td>CH 115</td>
<td>4 HE 141</td>
<td>3</td>
</tr>
<tr>
<td>HE 140</td>
<td>3 KIN 132</td>
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<td>Core Curriculum Area II: Literature Sequence</td>
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<td>Core Curriculum Area II: Fine Art</td>
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### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 307</td>
<td>3 KIN 400</td>
<td>4</td>
</tr>
<tr>
<td>EDT 300</td>
<td>3 KIN 451</td>
<td>3</td>
</tr>
<tr>
<td>BY 210</td>
<td>3 Math/Science/KIN Elective (200-level and above)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 305</td>
<td>3 Psychology Elective</td>
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### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 485</td>
<td>3 KIN 499</td>
<td>3-6</td>
</tr>
<tr>
<td>KIN 402</td>
<td>2 KIN 405</td>
<td>3</td>
</tr>
<tr>
<td>PH 201</td>
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</table>

### Total credit hours: 111-116

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**Kinesiology Fitness Leadership Concentration - Proposed Program of Study**

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 100</td>
<td>2-3 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 KIN 136</td>
<td>3</td>
</tr>
<tr>
<td>BY 101</td>
<td>4 CH 105</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BY 102</td>
<td>&amp; CH 106</td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>3 Core Curriculum Area IV: History</td>
<td>3</td>
</tr>
<tr>
<td>KIN 101</td>
<td>1 Core Curriculum Area IV: Social and Behavioral Science (Non-History)</td>
<td>3</td>
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</tbody>
</table>

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 307</td>
<td>3 KIN 400</td>
<td>4</td>
</tr>
<tr>
<td>EDT 300</td>
<td>3 KIN 407</td>
<td>3</td>
</tr>
<tr>
<td>KIN 305</td>
<td>3 KIN 450</td>
<td>3</td>
</tr>
<tr>
<td>Kinesiology Elective</td>
<td>3 KIN 340</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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</tr>
</tbody>
</table>

### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 485</td>
<td>3 KIN 499</td>
<td>3-6</td>
</tr>
<tr>
<td>KIN 402</td>
<td>2 KIN 405</td>
<td>3</td>
</tr>
<tr>
<td>KIN 451</td>
<td>3 KIN 405</td>
<td>3</td>
</tr>
<tr>
<td>Kinesiology Electives (300 level or above)</td>
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</tr>
</tbody>
</table>

### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 307</td>
<td>3 KIN 400</td>
<td>4</td>
</tr>
<tr>
<td>EDT 300</td>
<td>3 KIN 407</td>
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<tr>
<td>KIN 305</td>
<td>3 KIN 450</td>
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</tr>
<tr>
<td>Kinesiology Electives (300 level or above)</td>
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</table>

### Total credit hours: 120-124
Health Education Minor

The health education minor provides background information related to health issues and health programming. Students seeking this minor should complete a student information form in Room 207, Education Building. A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and a minor. The minor program is available to all students except health education majors.

Minor Requirements for Health Education

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Health Education</strong></td>
<td></td>
</tr>
<tr>
<td>HE 141 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HE 223 Introduction to Epidemiology and Disease Impact</td>
<td>3</td>
</tr>
<tr>
<td>HE 342 Introduction to Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HE 404 Global Trends in Health Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Health Education Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select three of the following courses:</td>
<td>9</td>
</tr>
<tr>
<td>HE 343 Theory and Determinants of Health Behavior</td>
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</tr>
<tr>
<td>HE 402 Mental Health and Stress Management</td>
<td></td>
</tr>
<tr>
<td>HE 408 Drug Use and Abuse</td>
<td></td>
</tr>
<tr>
<td>HE 421 Health Communication</td>
<td></td>
</tr>
<tr>
<td>HE 423 Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>HE 431 Planning and Implementing Health Education</td>
<td></td>
</tr>
<tr>
<td>HE 432 Administration of Health Education Programs</td>
<td></td>
</tr>
<tr>
<td>HE 452 Evaluation and Grantsmanship</td>
<td></td>
</tr>
<tr>
<td>HE 489 Health Education Methods</td>
<td></td>
</tr>
<tr>
<td>HE 490 Special Projects in Health Education/SL</td>
<td></td>
</tr>
<tr>
<td>HE 491 Problems in Health Education</td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>21</td>
</tr>
</tbody>
</table>

Kinesiology Minor: Exercise Science

A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and minor. Students may need to take additional electives to reach the 19 hour requirement in order to receive the minor. Students who complete BMD 310 (4 hrs.) and CDS 425 (1 hr.), respectively, as BMD 310, BMD 315, and CDS 425 cannot be used to satisfy both the Biomedical Sciences major and the Exercise Science minor, students must replace these 9 hours with courses from the Electives listed below. These replacement hours must include KIN 307.

The BY 115, BY 116, and HE 140 requirements are waived for only students majoring in Biomedical Sciences, who have completed BMD 310 (4 hrs.) and CDS 425 (1 hr.), respectively. As BMD 310, BMD 315, and CDS 425 cannot be used to satisfy both the Biomedical Sciences major and the Exercise Science minor, students must replace these 9 hours with courses from the Electives listed below. These replacement hours must include KIN 307.

See Kinesiology Program policy for "O" credit hour HE 140 waiver criteria. Students who meet the HE 140 waiver requirements need to take an additional 3 hour Elective to reach the minimum 19 hour requirement in order to receive the minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Aid</strong></td>
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</tr>
<tr>
<td>HE 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td><strong>Human Anatomy and Physiology</strong></td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td></td>
</tr>
<tr>
<td><strong>Exercise Science</strong></td>
<td></td>
</tr>
<tr>
<td>KIN 400 Physiology of Exercise</td>
<td>4</td>
</tr>
<tr>
<td><strong>Electives (Choose 1-5 Hours)</strong></td>
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</tr>
<tr>
<td>KIN 132 Group Exercise Leadership</td>
<td>1</td>
</tr>
<tr>
<td>KIN 307 Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 402 Basic Athletic Training</td>
<td>2</td>
</tr>
<tr>
<td>KIN 405 Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KIN 440 Principles of Conditioning the Athlete</td>
<td>3</td>
</tr>
<tr>
<td>KIN 450 Physical Activity for Individuals with Disabilities/SL</td>
<td>3</td>
</tr>
<tr>
<td>KIN 451 Physical Activity for Senior Adults</td>
<td>3</td>
</tr>
<tr>
<td>KIN 460 Clinical Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 470 Advanced Treatment Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KIN 485 Exercise Testing/Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KIN 499 Fitness Internship</td>
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<tr>
<td><strong>Total Hours</strong></td>
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</table>

Physical Education Minor: Athletic Coaching

A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Aid</strong></td>
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</tr>
<tr>
<td>HE 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td><strong>Biology</strong></td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td><strong>Kinesiology</strong></td>
<td></td>
</tr>
<tr>
<td>KIN 222 Concepts of Health and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KIN 115 Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KIN 117 Team Sports</td>
<td>1</td>
</tr>
<tr>
<td>KIN 118 Sports Using Implements</td>
<td>1</td>
</tr>
<tr>
<td>KIN 201 Officiating Techniques</td>
<td>2</td>
</tr>
<tr>
<td>KIN 307 Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 402 Basic Athletic Training</td>
<td>2</td>
</tr>
<tr>
<td>KIN 407 Coaching Young Athletes</td>
<td>3</td>
</tr>
<tr>
<td><strong>Kinesiology Elective</strong></td>
<td></td>
</tr>
<tr>
<td>Take any 100 Level KIN course</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>24</td>
</tr>
</tbody>
</table>
School of Business

Dean: Eric P. Jack
Senior Associate Dean: Karen N. Kennedy
Associate Dean: Jack L. Howard

UAB’s Collat School of Business is accredited at the baccalaureate and master’s levels by AACSB International and holds separate AACSB International accreditation of the undergraduate and master’s programs in accounting. Professional education in business administration is offered through the Departments of Accounting and Finance; Management, Information Systems, and Quantitative Methods; Marketing, Industrial Distribution, and Economics; as well as the Graduate School of Management. In designing the school’s programs, the faculty recognizes the importance of meeting the many and diverse educational needs of the urban environment in which the school functions. Additionally, faculty members are involved in activities that (1) advance knowledge in business and assist city, state, and regional constituencies through theoretical and applied research; and (2) maintain a continuing relationship with the community through participation in professional societies, consulting, conferences, non-credit courses, and other service roles.

At the undergraduate level, the school offers programs of study leading to the Bachelor of Science degree with majors in accounting, economics, finance, industrial distribution, information systems, management, and marketing. Each program combines a broad exposure to the arts and sciences with comprehensive preparation in all areas of business.

At the graduate level, the Graduate School of Management offers programs of study leading to the Master of Business Administration, Master of Accounting, and Master of Science in Management Information Systems degrees. Programs resulting in a dual degree are offered in cooperation with the School of Public Health (MPH/MBA) and the School of Health Professions (MSHA/MBA). The Ph.D. degree in administration/health services is offered in cooperation with the School of Health Professions.

Mission, Vision and Values Statements

Mission Statement

We create and disseminate business knowledge that transforms the lives of our students and stakeholders by leveraging our locational advantages for the benefit of our community, state and beyond.

Vision Statement

We strive to be a renowned business school focused on leadership, innovation and entrepreneurship.

Values Statement

We value:

• Quality teaching, research and professional and public service by faculty, staff and students;
• Relevance and innovation in curriculum, instructional methods, research, and professional and public service;
• Intellectual growth, professional and ethical development of our students;
• A collegial environment of academic freedom and faculty governance;
• Partnerships with our internal and external constituencies;
• Diversity in our students, faculty, staff, and community;
• High standards of professional and ethical conduct

Admission Requirements

Beginning Freshmen

Beginning freshmen, admitted with conditional or unconditional status, may enroll in the Collat School of Business.

Two-Year College Transfers

Students considering transferring to UAB from a two-year college should consult with their two-year college advisor about specific courses that are transferable to UAB and the Collat School of Business. UAB’s Collat School of Business requirements include those defined in the Alabama General Studies articulation program for a major in business. The public speaking requirement may be taken as part of Area II and the pre-calculus course may be taken as part of Area III. Students planning to major in industrial distribution should see the footnoted exceptions to the Core Curriculum requirements in regard to elective hours.

In cases where enrollment has been interrupted by one year or more, transfer students are expected to meet catalog requirements in effect at the time that they enter UAB.

Only 60 applicable semester hours of two-year college coursework can be applied toward a UAB degree.

Transfers from Other Institutions

Admission to the Collat School of Business is restricted to those students who are admitted to UAB as degree-seeking students. Students must have a minimum 2.0 cumulative grade point average. Before an upper-level business course may be attempted, a minimum grade of C in the stated prerequisite(s) for the Collat School of Business course(s) is required.

Transfers within UAB

Degree-seeking students changing their major from schools and the college within UAB will be admitted to the Collat School of Business provided they have a minimum 2.0 overall grade point average and a minimum 2.0 UAB grade point average. Before an upper-level business course may be attempted, a minimum grade of C in the stated prerequisite(s) for the Collat School of Business course(s) is required.

Students Readmitted to UAB

Degree-seeking students, non-degree seeking students and post-baccalaureate students readmitted to UAB may be admitted to the Collat School of Business provided they have a minimum 2.0 overall grade point average and a minimum 2.0 UAB grade point average.

Former students are expected to meet catalog requirements in effect at the time they re-enter UAB, when one year or more of enrollment at UAB has lapsed or when another college has been attended since last enrolling at UAB.

Non-Degree Seeking Students

Admission of non-degree seeking students to the Collat School of Business is restricted to those students who already have a four-year degree from a regionally accredited college or university.
The following policies apply:

1. Post-baccalaureate students not seeking a UAB business degree will be classified in the major that was selected on the application or as a Collat School of Business undeclared major. They may enroll in any undergraduate business course in which the stated course prerequisite(s) has been completed with a minimum grade of C. Students having less than a C in prerequisite courses or those who completed the prerequisites many years earlier are advised to repeat the prerequisites (see specific major for any deviation).

2. Post-baccalaureate students seeking a UAB undergraduate business degree will be classified in the appropriate major. Once the decision to seek a business degree is made, post-baccalaureate students are expected to meet all catalog requirements in effect at the time of their admission or readmission to UAB.

3. Students are responsible for providing transcripts to their advisors for verification of prerequisites.

**Transient Students**

Transient students who wish to attempt Collat School of Business courses should be aware of the following:

1. It is the student’s responsibility to verify with the advisor at the home institution that courses taken at the Collat School of Business will transfer back to the home institution.

2. Note that if enrolled in a business course that fills and there is degree-seeking student demand, the transient students are withdrawn from the filled class.

**Admission Classification**

Undergraduate students entering the Collat School of Business are admitted with a self-selected major classification. Should the student not select a major, he/she will be admitted with a Collat School of Business undeclared major classification. Majors include accounting, economics, finance, industrial distribution, information systems, management and marketing.

Lower level prerequisite business courses must be completed with a grade of C or better before attempting upper-level business courses (those numbered 300 or higher). Any request for deviations from the requirements must be petitioned through the academic advisor for the department in which the course resides.

Collat School of Business advisors are available within each academic department in the Business-Engineering Complex or by telephone (205) 934-8813.

**Curriculum Outline**

The Collat School of Business reserves the right to modify curricula and specific courses of instruction, to alter requirements for graduation, and to change the majors to be awarded at any time the school may determine. Such changes may be applicable to either prospective or currently enrolled students.

The curriculum outline that follows is formatted to show how course requirements of the Collat School of Business concur with the UAB Core Curriculum requirements. Students, in cooperation with their advisor, should sequence these requirements in a manner to meet stated prerequisite requirements for specific courses in their curriculum.

**UAB CORE CURRICULUM REQUIREMENTS**

Refer to Core Curriculum (p. 294)

Business students should take the following courses in the Core Curriculum.

2. Core Curriculum Area II: Humanities and Fine Art, select one of the following:
   a. ARH 101 The Art Experience
   b. MU 120 Music Appreciation
   c. THR 100 Introduction to the Theatre.
3. Core Curriculum Area III: Natural Science and Mathematics, select one of the following:
   a. MA 105 Pre-Calculus Algebra
   b. MA 109 Survey of Calculus
   c. MA 125 Calculus I.

**Lower Level Collat School of Business Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA Requirement</td>
<td></td>
</tr>
<tr>
<td>Students must have at least:</td>
<td></td>
</tr>
<tr>
<td>2.0 overall GPA (includes all UAB and transfer courses);</td>
<td></td>
</tr>
<tr>
<td>2.0 UAB GPA (all courses);</td>
<td></td>
</tr>
<tr>
<td>Obtain a minimum grade of C in all lower-level business courses.</td>
<td></td>
</tr>
<tr>
<td>The UAB forgiveness policy may be applied only once to each of four different courses with a C or below. See major listing for specific grade requirements relating to selected major.</td>
<td></td>
</tr>
<tr>
<td><strong>Communication Studies / Business Calculus Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MA 105 Pre-Calculus Algebra (Satisfies the Core Curriculum Area III: Math Requirement)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Lower Level Business Courses**

Must earn a grade of C or better in each course, see above GPA requirement:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 200 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>AC 201 Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 211 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>LS 246 Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>IS 103 Applied Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>QM 214 Quantitative Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>QM 215 Quantitative Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction into Business</td>
<td>3</td>
</tr>
</tbody>
</table>
The following general requirements and policies apply to all students majoring in the Collat School of Business.

1. Students may enroll and receive a grade (A, B, C, D, or F) for any business course a maximum of three times. Enrollment is determined by a grade other than W on a student’s transcript.
2. A business course (upper or lower level) in which a grade has been earned at UAB cannot be repeated at another institution (including cooperative institutions).
3. Courses regularly offered at UAB may not be taken for credit at another institution (including cooperative institutions) while a student is simultaneously enrolled at UAB without prior written permission of the appropriate department chair and the Director of Student Services. Failure to receive such permission may result in the non-applicability of courses completed elsewhere.
4. To attempt upper-level business courses (numbered 300 and above), students must have a cumulative 2.0 GPA and a 2.0 GPA at UAB. In addition, students must have a grade of C or better in the stated prerequisites for each business course. Students must also meet any specific grade requirements within their major.
5. In cases where one year or more of non-enrollment at UAB has lapsed or when another school has been attended since the last enrollment at UAB, students are expected to meet catalog requirements in effect at the time they re-enter UAB.

GPA Graduation Requirement
The Collat School of Business GPA (grade point average) graduation requirement is in addition to the general UAB requirements.

Accounting, Finance and Information Systems Majors
1. Earn at least a cumulative 2.0 GPA in all accounting, finance, and information systems major courses.
2. Earn a minimum grade of C in all courses used in the accounting, finance, and information systems majors.
3. Earn a cumulative 2.0 GPA (transfer and UAB courses) and a 2.0 GPA at UAB

Students may opt to utilize the university’s course forgiveness policy to calculate the GPA for the accounting, finance, and information systems majors. Using this policy, courses taken at UAB may be repeated at UAB, and the grade for the first attempt will be excluded from the calculation of the GPA. Only courses for which the student has received a grade of C or below may be repeated with this option. The transcript will show the original grade for the course and the repeated grade for the course, however, only the grade points and credit hours earned when the course is repeated will be counted toward degree completion and averaged into the student’s GPA. The forgiveness policy may be used a maximum of four (4) times, only once for any course, allowing a student to use the forgiveness for four different courses.

Students should process all repeats before applying for degree to insure a correct graduation GPA calculation.

Economics, Industrial Distribution, Management, and Marketing Majors
1. Earn at least a cumulative 2.0 GPA in all courses required for the above listed majors.
2. Earn a cumulative 2.0 GPA (transfer and UAB courses).
3. Earn a 2.0 GPA at UAB.

Students may opt to utilize the university’s course forgiveness policy to calculate the GPA for economics, industrial distribution, management, and marketing majors. Using this policy, courses taken at UAB may be repeated at UAB, and the grade for the first attempt will be excluded from the calculations of the GPA. Only courses for which the student has received a grade of C or below may be repeated with this option. The transcript will show the original grade for the course and the repeated grade for the course, however, only the grade points and credit hours earned when the course is repeated, will be counted toward degree completion an averaged into the student’s GPA. The forgiveness policy may be used a maximum of four (4) times, only once for any course, allowing a student to use the forgiveness for four different courses.

The following general requirements and policies apply to all students majoring in the Collat School of Business.

1. Earn at least a cumulative 2.0 GPA in all courses required for the above listed majors.
2. Earn a minimum grade of C in all courses used in the accounting, finance, and information systems majors.
3. Earn a cumulative 2.0 GPA (transfer and UAB courses) and a 2.0 GPA at UAB

Students may opt to utilize the university’s course forgiveness policy to calculate the GPA for the accounting, finance, and information systems majors. Using this policy, courses taken at UAB may be repeated at UAB, and the grade for the first attempt will be excluded from the calculation of the GPA. Only courses for which the student has received a grade of C or below may be repeated with this option. The transcript will show the original grade for the course and the repeated grade for the course, however, only the grade points and credit hours earned when the course is repeated, will be counted toward degree completion an averaged into the student’s GPA. The forgiveness policy may be used a maximum of four (4) times, only once for any course,
allowing a student to use the forgiveness policy for four different courses.

Students should process all repeats before applying for degree to insure a correct graduation GPA calculation.

Residency Requirement

Of the 21 to 27 semester hours of upper-level major courses required for a departmental major, at least 15 semester hours must be completed at UAB. In addition, 50 percent (30 to 33 semester hours) of business hours required must be taken at UAB. These hours exclude nine hours of economics and six hours of statistics.

Minors in Business

The Collat School of Business offers minors in accounting, business administration, economics, finance, information systems, management, and marketing, and sports and entertainment marketing. These minors are available to all UAB students with the exception of the minors in international business and in sports and entertainment marketing which are available only to School of Business majors.

The following requirements apply to minors:

1. Students must meet the following grade point requirements:
   • Have a 2.0 cumulative GPA (includes all schools attended)
   • Have a 2.0 UAB GPA

2. Students must have the following:
   • A minimum grade of C in all lower level business courses required for the minor, including minor courses transferred. All minors allow the use of the university’s course forgiveness policy;
   • A minimum overall average of C in UAB business courses required for the minor, (check specific minor for any deviations)
   • At least 12 semester hours of the minor courses taken in the Collat School of Business (the accounting, finance, and information systems minors have additional requirements).

3. All required 200-level business courses listed for selected minor must be completed, with a grade of C, prior to enrollment in the 300 and 400-level courses listed (check specific minor for any deviations)

4. Students may enroll and receive a grade of (A, B, C, D, or F) for any business course a maximum of 3 (three) times only.

5. Students who wish to take upper-level business courses other than those specified in the selected minor must meet all prerequisites for those courses and have permission from the Collat School of Business, Office of Student Services. (Room 202, BEC)

6. Collat School of Business majors may also earn a business minor, with the exception of the minor in Business Administration.

   The minor must include at least nine semester hours beyond the requirement of the student’s selected business major. The Collat School of Business undergraduate advisors can assist business majors in tailoring a business minor.

Minor Requirements for Accounting

Must earn a grade of “C” or better and overall GPA of 2.0 in all courses required for this minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Lower-Level Requirements</td>
<td></td>
</tr>
</tbody>
</table>
Economics Upper-Level Electives
Select one 300-level or higher Economics (EC) course. 3
Total Hours 21

Minor Requirements for Finance
Must earn a grade of "C" or better and have an overall GPA of 2.0 in all courses required for this minor.

Requirements Hours
Finance Lower-Level Requirements
AC 200 Principles of Accounting I 3
EC 210 Principles of Microeconomics 3
BUS 101 Introduction into Business 3
or BUS 102 Business Foundations
Finance Upper-Level Requirement
FN 310 Fundamentals of Financial Management 3
Finance Upper-Level Elective
Select three 300-level or higher Finance (FN) courses. 9
Total Hours 21

IS Minor #3 for All Other Majors
Requirements Hours
Information Systems Lower-Level Requirements
BUS 101 Introduction into Business 3
or BUS 102 Business Foundations
IS 204 Introduction to Business Programming 3
Information Systems Upper-Level Requirements
IS 301 Introduction to Database Management Systems 3
IS 303 Information Systems 3
IS 321 Systems Analysis 3
MG 417 Project Management 3
Total Hours 18

Minor in Management for Business Majors
Requirements Hours
MG 401 Organizational Behavior 3
MG 409 Human Resource Management 3
MG 413 Employment Law 3
MG 425 Mnging through Ldrship 3
Total Hours 12

Minor Requirements for Information Systems
Must earn a grade of "C" or better in each course and an overall GPA of 2.0 in all courses required for this minor.

IS Minor #1 for Business Majors
Requirements Hours
Information Systems Lower-Level Requirements
BUS 101 Introduction into Business 3
or BUS 102 Business Foundations
IS 204 Introduction to Business Programming 3
Information Systems Upper-Level Requirements
IS 301 Introduction to Database Management Systems 3
IS 321 Systems Analysis 3
MG 417 Project Management 3
Total Hours 15

IS Minor #2 for Computer Science Majors
Requirements Hours
Information Systems Lower-Level Requirements
BUS 101 Introduction into Business 3
or BUS 102 Business Foundations
IS 303 Information Systems 3
Information Systems Upper-Level Electives
IS 302 Enterprise Systems 3
IS 321 Systems Analysis 3
MG 417 Project Management 3
LS 471 Legal Elements of Fraud Investigation 3
IS 472 Forensic Accounting and Information Tech Auditing 3
IS 473 Fraud Examination 3
IS 491 Current Topics in Information Systems 3
Total Hours 15

Minor in Management for Non-Business Majors
Requirements Hours
MG 302 Management Processes and Behavior/SL 3
MG 401 Organizational Behavior 3
MG 409 Human Resource Management 3
MG 413 Employment Law 3
MG 425 Mnging through Ldrship 3
Total Hours 18

Minor Requirements for Marketing
Must earn a grade of "C" or better and have an overall GPA of 2.0 in all courses required for this minor.

Requirements Hours
Marketing Lower-Level Requirements
AC 200 Principles of Accounting I 3
BUS 101 Introduction into Business 3
or BUS 102 Business Foundations
EC 210 Principles of Microeconomics 3
LS 246 Legal Environment of Business 3
Marketing Upper-Level Requirements
MK 303 Basic Marketing 3
Marketing Upper-Level Electives
Select two 300-level or higher Marketing (MK) courses. 6
Total Hours 21
Minor Requirements for Quantitative Methods

Must earn a grade of "C" or better and have an overall GPA of 2.0 in all courses required for the minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantitative Methods Lower-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 211 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>QM 214 Quantitative Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>QM 215 Quantitative Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction into Business</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Methods Upper-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>Select two of the following courses</td>
<td>6</td>
</tr>
<tr>
<td>QM 400 Survey of Management Science</td>
<td></td>
</tr>
<tr>
<td>QM 410 Nonparametric Statistics</td>
<td></td>
</tr>
<tr>
<td>QM 420 Applied Forecasting</td>
<td></td>
</tr>
<tr>
<td>QM 425 Applied Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>QM 442 Statistics for Quality and Productivity</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

1. EC 210 & EC 211 may also apply to Core Curriculum Area IV; check the Core Curriculum for your particular major.
2. Note that the prerequisite for QM 214 is MA 105 with a C.

Minor in Management - Human Resources

Requirements | Hours |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101 Introduction into Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior/SL</td>
<td>3</td>
</tr>
<tr>
<td>MG 409 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 411 Compensation Administration</td>
<td>3</td>
</tr>
<tr>
<td>MG 412 Employee Selection and Development</td>
<td>3</td>
</tr>
<tr>
<td>MG 413 Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

Minor in International Business

The international business minor is available only to Collat School of Business majors. It supplements the student’s major with an appreciation of the global economy and issues unique to doing business on a worldwide basis. The minor includes a required foreign language component. The international business minor consists of the following 18 semester hours.

Must earn a grade of “C” or better in stated prerequisite courses and have an overall 2.0 GPA in all courses required for this minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirement</td>
<td></td>
</tr>
<tr>
<td>Must be a Collat School of Business Major</td>
<td></td>
</tr>
<tr>
<td>International Business Requirements</td>
<td></td>
</tr>
<tr>
<td>Select four of the following courses</td>
<td>12</td>
</tr>
<tr>
<td>EC 407 International Economics</td>
<td></td>
</tr>
<tr>
<td>FN 412 International Financial Management</td>
<td></td>
</tr>
<tr>
<td>MG 415 International Business Dynamics</td>
<td></td>
</tr>
</tbody>
</table>

Minor Requirements for Social Media Strategies for Business

Minor is open to all students with at least 45 semester hours completed and a minimum 2.5 cumulative GPA.

Must earn a grade of "C" or better and overall GPA of 2.0 in all courses required for this minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101 Introduction into Business (Available Fall, Spring)</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>IS 415 Social Media &amp; Virtual (Available Fall)</td>
<td>3</td>
</tr>
<tr>
<td>IS 416 Web Analytics (Available Spring)</td>
<td>3</td>
</tr>
<tr>
<td>IS 417 Introduction to Business Intelligence (Available Fall)</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing (Available Fall, Spring)</td>
<td>3</td>
</tr>
<tr>
<td>or MK 471 Health Care Marketing</td>
<td></td>
</tr>
<tr>
<td>MK 401 Social Media in Marketing (Available Spring)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

Minor Requirements for Sports and Entertainment Marketing

Must earn a grade of "C" or better and overall GPA of 2.0 in these courses.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower level requirement</td>
<td></td>
</tr>
<tr>
<td>BUS 101 Introduction into Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>Upper level requirements</td>
<td></td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 401 Social Media in Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 333 Sports Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MG 430 Management and Leadership in Sports Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

UAB Professional Sales Certificate Program

Purpose

The Professional Sales Certificate is designed for undergraduate students of all majors pursuing a sales career or wishing to enhance his/her interpersonal communication skills in a business environment. This program helps students distinguish themselves as committed professionals in sales and customer service. In addition to the course work shown below, students will be involved in out-of-class activities, including job shadowing and mentorship. Students with a Professional Sales Certificate are well-prepared for entry-level sales careers and have
a competitive advantage in the job market. All majors from across UAB are eligible to compete for entrance. Classes are kept small to ensure individual attention is provided for each student.

Eligibility
Submission of completed application form, available in BEC 219 or from one of the contact people below:

- Resume demonstrating characteristics that support a successful sales career (strong work ethic, etc);
- Achievement of an overall 2.0 G.P.A. and be in good academic standing with the university;
- Commitment to extra-curricular involvement in the Professional Sales Program activities;
- Complete a panel interview with the Professional Sales Program Leadership Team members.

Professional Sales Certificate Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA requirement</td>
<td></td>
</tr>
<tr>
<td>A 2.0 overall GPA is required in certificate courses.</td>
<td></td>
</tr>
</tbody>
</table>

Certificate Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101</td>
<td>Introduction into Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102</td>
<td>Business Foundations</td>
<td></td>
</tr>
<tr>
<td>BUS 350</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 330</td>
<td>Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 420</td>
<td>Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 425</td>
<td>Advanced Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 320</td>
<td>Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>FN 452</td>
<td>Management of Financial Intermediaries</td>
<td>2</td>
</tr>
<tr>
<td>MK 495</td>
<td>Industrial Distribution Directed Studies/Practicum</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 23

Benefits
In addition to the shadowing, business contacts, and internship opportunities in the program, students will graduate with valued sales and service skills. Earning a Professional Sales Certificate differentiates students in a competitive hiring environment.

Contacts
Ms. Kristen Craig (kcraig@uab.edu)
Dr. Tom DeCarlo (tdecarlo@uab.edu)
Dr. Karen Kennedy (knk@uab.edu)
Dr. Kenneth Miller (klmiller@uab.edu)
Dr. Bob Robicheaux (bobr@uab.edu)

Honors in Business

Purpose
The Collat School of Business Honors Program is designated for qualified and self-motivated students pursuing business-related undergraduate degrees. Through a mentored program format, students will develop research and communication skills in preparation for a professional career and/or graduate study. Although students may focus their research into any of the disciplines in the Collat School of Business, the Business Honors Program has overarching themes of leadership and ethics.

Eligibility
Entry into the Collat School of Business Honors Program is by invitation. Students may apply to be considered for an invitation.

To be eligible for the Collat School of Business Honors Program, students must:

- Have earned a 3.5 GPA in all business courses attempted;
- Have earned a 3.0 GPA overall;
- Have a major in the Collat School of Business;
- Have submitted a Business Honors Program Application form or to be invited to submit an application;
- Have been selected by the Business Honors Committee from application and transcript evaluation.

Requirements

- A 3.5 GPA in business courses;
- A 3.0 GPA overall;
- Enroll Spring Semester of junior year in BUS 300 Introduction to Leadership Seminar for 3 credit hours;
- Enroll Fall Semester of senior year in BUS 495, Business Honors Seminar I, for three credit hours and enroll Spring Semester of senior year in BUS 496 Business Honors Seminar II, for three credit hours;
- An oral presentation of a completed research project before a colloquium of other business honors students, the Business Honors Committee, Collat faculty, and/or professionals.

Where appropriate, the Business Honors Committee may recommend that Business Honors students make formal presentations of their work at annual conference meetings.

Benefits
In addition to intellectual research benefits and enhanced credentials for graduate school or professional pursuits, students will graduate “With Honors in Business” or “With Honors in Economics”.

Contact
For more information and/or admission to the Collat School of Business Honors Program, contact:

Collat School of Business Honors Program Director
1720 2nd Avenue, South/ BEC 217A • Birmingham, AL 35294-4460 • Telephone (205) 934-8845 • E-mail: businesshonors@uab.edu

Department of Accounting and Finance

Interim Chair: Lary Cowart

The Department of Accounting and Finance is responsible for activities in accounting and finance.
Mission Statement

The Department of Accounting and Finance is committed to providing a high-quality, practice-oriented educational experience to a largely urban population. The department will offer an educational foundation that will prepare students for professional careers or enable them to pursue graduate studies. The department will contribute to the understanding and application of knowledge through the scholarship activities of the faculty. The department will maintain a continuing relationship with the professional community while supporting the internal activities of the University.

Uniform CPA Exam

The State of Alabama requires that applicants for the Uniform CPA Exam hold a baccalaureate degree from an accredited institution and possess a total of 150 semester hours of post-secondary education, including at least 33 semester hours of accounting at the upper-division or graduate level.

There are two ways that UAB students can meet these requirements:

1. By obtaining a Master of Accounting degree. The Department of Accounting and Finance offers a master’s program that is fully accredited by AACSB International. Under the state’s 150-hour law, holders of graduate degrees from accredited accounting programs automatically qualify to sit for the Uniform CPA Exam. Students interested in this option should refer to the UAB Graduate School Catalog for admission policies.

2. By obtaining an undergraduate accounting degree (or its equivalent) and completing certain additional coursework as specified under the state’s 150-hour law. Students interested in this option should contact an undergraduate advisor in the Office of Student Services for specific guidance. Students interested in this option and hold degrees from other institutions should contact an undergraduate business advisor as well as apply to the university as an undergraduate seeking a second degree.

Other Professional Accounting Certifications

Other examinations leading to professional certification (CMA, CIA, etc.) generally do not require academic coursework beyond the baccalaureate degree. Students interested in other accounting certifications should contact an undergraduate business advisor or any member of the accounting faculty for further information.

Accounting Major

The objective of the major in accounting is to provide basic conceptual accounting and business knowledge as a foundation for beginning professional careers as accountants in the fields of public accounting, private or industrial accounting, and governmental accounting, or for pursuing study at the graduate level. In the senior year, students may specialize to a limited extent by taking one or more advanced courses in a particular field.

Students must have a minimum grade of C in all accounting courses numbered 200 or above. The grade of C is a prerequisite for all accounting courses numbered 300 and above. In addition, students must have a minimum grade of C and have an overall C average in all major courses. At least 15 hours of the major must be taken at UAB. The university’s course forgiveness policy may be applied to this major.

Finance Major

The finance curriculum is designed to provide an understanding of financial operating and investment problems in both financial and non-financial businesses. Careers are available in areas such as government, securities businesses, banking, insurance, real estate, savings and other financial intermediaries, and in the financial management of non-financial businesses.

Finance majors must earn a minimum grade of C and have an overall 2.0 GPA in all major courses. At least 15 hours of the major must be taken at UAB. The university course forgiveness policy may be applied to any finance concentration.

Major Requirements for Accounting (p. 239)

Major Requirements for Accounting with a Concentration in Forensic Accounting and Information Technology Auditing (p. 240)

Major Requirements for Finance with a Concentration in Financial Management (p. 240)

Major Requirements for Finance with a Concentration in Investments and Institutions (p. 240)

Major Requirements for Finance with a Concentration in Real Estate (p. 241)

Upper Level Business Requirements For Accounting

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Level Requirements</td>
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<tr>
<td>Students must earn a grade of C or better in the stated prerequisites of each School of Business course and have an overall 2.0 GPA.</td>
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<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
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<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
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<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior/SL</td>
<td>3</td>
</tr>
<tr>
<td>MG 403 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
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<tr>
<td>AC 495 Accounting Capstone</td>
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<tr>
<td>International Business Requirement</td>
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<td>Select one of the following:</td>
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<tr>
<td>EC 407 International Economics</td>
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<td>FN 412 International Financial Management</td>
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<td>MG 415 International Business Dynamics</td>
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<td>MK 416 International Marketing</td>
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<tr>
<td>AC 440 International Accounting: From a User’s Perspective</td>
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<td><strong>Total Hours</strong></td>
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</table>
Major Requirements for Accounting

Requirements

Grade and GPA Requirement
Must earn a minimum grade of C in each course and have overall 2.0 GPA in major courses.

Accounting Requirements
- AC 300 Financial Accounting I 1
- AC 304 Accounting Information Systems 1
- AC 310 Financial Accounting II
- AC 401 Cost Accounting
- AC 402 Income Taxation I
- AC 413 Internal Auditing
- AC 430 Financial Accounting III

Accounting Major Electives
Select 3 hours from 400-level or higher Accounting (AC) courses.

Total Hours 24

1 May be taken concurrently.

Concentration in Forensic Accounting and Information Technology Auditing

The increased attention focusing on inappropriate and fraudulent behavior within the business community in recent years has led to the creation of a concentration in Forensic Accounting and Information Technology Auditing at UAB. This concentration introduces accounting and information systems students to the basics of fraud, IT audits, fraud examination and forensic accounting. Although of value to anyone in the financial information professions, it is designed to appeal to those students with an interest in becoming Certified Fraud Examiners (CFEs).

Accounting and information systems majors may choose, (as a part or in addition to the courses required for the major), the following series of courses which make up the concentration:

Requirements

Concentration Requirements
- AC/IS 472 Forensic Accounting and Information Tech Auditing
- AC/IS 473 Fraud Examination
- LS 471 Legal Elements of Fraud Investigation
- AC or IS Elective Approved by Advisor

Total Hours 12

Major in Finance

Upper Level Business Requirements For Finance

Requirements

Upper-Level Requirements
Students must earn a grade of C or better in the stated prerequisites and have an overall 2.0 GPA.
- BUS 350 Business Communications
- IS 303 Information Systems
- MK 303 Basic Marketing
- FN 310 Fundamentals of Financial Management
- MG 302 Management Processes and Behavior/SL

Finance majors should select a concentration in Financial Management or Investments and Institutions or Real Estate as a major.

Financial Management

Students who expect to own and/or operate small businesses, or who wish to seek employment as financial analysts in large corporations, should select this concentration. Topics studied include financial analysis and forecasting, capital budgeting, working capital management, valuation theory, and other specialized areas in finance.

Major Requirements For Finance With Financial Management Concentration

Requirements

Grade and GPA Requirement
Students must earn a grade of C or better in each course, have an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

Finance Requirements
- AC 320 Financial Accounting Survey
- AC 401 Cost Accounting
- FN 311 Short-Term Financial Management
- FN 320 Financial Research Methods
- FN 350 Equity Portfolio Management
- FN 410 Advanced Financial Management
- FN 411 Case Studies in Financial Management
- FN 453 Financial Risk Management

Finance Major Elective
Select one 300-level or higher AC, EC, or FN course approved by finance advisor. 1

Total Hours 27

1 Note: Students may not apply any course to satisfy this requirement and a requirement in the Upper-Level Business Requirements. Each course used only once.

Investments and Institutions

Students who wish to prepare for careers in financial institutions (such as banks, thrifts, insurance companies, and credit unions), or the securities industry (such as a stockbroker, portfolio manager, financial planner, or securities analyst), should select this concentration. Topics include commercial bank management, credit analysis, trust services, securities markets, and portfolio management, economic forecasting, and real estate.
## Major Requirements For Finance, with Investments & Institutions Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
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<tr>
<td>Students must earn a C or better in each course, have an overall 2.0 GPA, and an overall 2.0 GPA in all major courses.</td>
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<td><strong>Finance Requirements</strong></td>
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<tr>
<td>AC 320</td>
<td>Financial Accounting Survey</td>
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<td>EC 420</td>
<td>Applied Forecasting</td>
</tr>
<tr>
<td>FN 320</td>
<td>Financial Research Methods</td>
</tr>
<tr>
<td>FN 350</td>
<td>Equity Portfolio Management</td>
</tr>
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<td>FN 351</td>
<td>Bond Portfolio Management</td>
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<tr>
<td>FN 410</td>
<td>Advanced Financial Management</td>
</tr>
<tr>
<td>FN 420</td>
<td>Financial Sales &amp; Trading</td>
</tr>
<tr>
<td>FN 453</td>
<td>Financial Risk Management</td>
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<tr>
<td><strong>Finance Major Elective</strong></td>
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</tr>
<tr>
<td>Select one 300-level or higher EC, FN or AC course approved by finance advisor.</td>
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</tr>
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</table>

Total Hours 27

1 Students may not apply any course to satisfy this requirement and a requirement in the Upper-Level Business Requirements. Each course used only once.

## Real Estate

Students who wish to focus on real estate finance and investment analysis should select this concentration. Topics included, but not limited to, are the commercial real estate industry and preparation for related entry positions with developers, lenders, appraisers, brokers, investment bankers, real estate advisors, real estate trusts and consulting firms, both nonprofit organizations and government agencies.

## Major Requirements For Finance With Real Estate Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>Students must earn a grade of C or better in each course, have an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.</td>
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<tr>
<td><strong>Finance Requirements</strong></td>
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<td>AC 320</td>
<td>Financial Accounting Survey</td>
</tr>
<tr>
<td>FN 470</td>
<td>Real Estate Finance</td>
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<tr>
<td>FN 320</td>
<td>Financial Research Methods</td>
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<tr>
<td>FN 475</td>
<td>Real Estate Investment Analysis and Valuation</td>
</tr>
<tr>
<td>FN 370</td>
<td>Principles of Real Estate</td>
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<tr>
<td>FN 350</td>
<td>Equity Portfolio Management</td>
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<tr>
<td>or FN 452</td>
<td>Management of Financial Intermediaries</td>
</tr>
<tr>
<td>FN 410</td>
<td>Advanced Financial Management</td>
</tr>
<tr>
<td><strong>Finance Major Elective</strong></td>
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</tr>
<tr>
<td>Select two 300-level or higher EC, FN, MK, or QM course approved by finance advisor.</td>
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Total Hours 27

## Admissions Requirement

Students must be admitted to the School of Business. Please review the School of Business Admissions Requirements.

## School of Business Requirements

Students must adhere to all School of Business Academic Requirements and Finance major GPA requirements. Use of the university's course forgiveness policy is allowed.

## Free Electives

If the courses taken to satisfy all of the requirements will not meet the minimum credit hour requirement to graduate, free electives may be taken to reach the required number of hours.

## Proposed Program of Study for a Major in Accounting

### Freshman

<table>
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<th>Term</th>
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<td>IS 103</td>
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<td><strong>Second Term</strong></td>
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### Sophomore

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<td>EC 210</td>
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<td>Core Curriculum Area II: Literature</td>
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### Junior

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<td>AC 401</td>
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### Senior

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<td>AC 413</td>
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<td>International Business Elective</td>
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<td>IS 303</td>
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<td>Accounting Elective (400 level)</td>
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General Elective  

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Total credit hours: 120

1. Select one of the following courses: ARH 101, MU 120 or THR 100.
2. Select one of the following courses: HY 101, HY 102, HY 120 or HY 121.
3. Select one of the following: AC 440, FN 412, EC 407, MK 416 or MG 415.

Proposed Program of Study for a Major in Finance with a Concentration in Financial Management

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Sophomore

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Junior

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Senior

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Total credit hours: 120

Proposed Program of Study for a Major in Finance with a Concentration in Investments and Institutions

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<th>Hours Second Term</th>
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<tbody>
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Sophomore

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<td>EC 210</td>
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<td>AC 201</td>
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<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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<table>
<thead>
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<tr>
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Junior

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>QM 350</td>
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<td>MK 303</td>
<td>3</td>
<td>FN 320</td>
<td>3</td>
</tr>
<tr>
<td>MG 302</td>
<td>3</td>
<td>FN 350</td>
<td>3</td>
</tr>
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<td>FN 310</td>
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<td>AC 320</td>
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<td>EC 301</td>
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Senior

<table>
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<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IS 303</td>
<td>3</td>
<td>FN 453</td>
<td>3</td>
</tr>
<tr>
<td>EC 420</td>
<td>3</td>
<td>FN 495</td>
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<tr>
<td>FN 410</td>
<td>3</td>
<td>FN/EC/AC Elective 300/400 level</td>
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</tr>
<tr>
<td>FN 420</td>
<td>3</td>
<td>Core Curriculum Area III: Natural Science with Lab</td>
<td>4</td>
</tr>
<tr>
<td>FN 452</td>
<td>3</td>
<td>General Electives</td>
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<table>
<thead>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>15</td>
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<td>17</td>
</tr>
</tbody>
</table>

Total credit hours: 123

1. Select one from: HY 101, HY 102, HY 104, HY 105, HY 120, HY 121
2. Select one from: ARH 101, MU 120 or THR 100

Proposed Program of Study for a Major in Finance with a Real Estate Concentration

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
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</tr>
<tr>
<td>MA 105</td>
<td>3</td>
<td>CMST 101</td>
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</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
<td>IS 103</td>
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<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
<td>15</td>
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Total credit hours: 120
### Upper Level Business Requirements for Management and Information Systems

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Upper-Level Requirements</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
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<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MG 403 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior/SL</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Capstone Requirement</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>BUS 450 Strategic Management Capstone Experience (Management Majors)&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td><strong>International Business Requirement</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>EC 407 International Economics</td>
<td></td>
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<tr>
<td>FN 412 International Financial Management</td>
<td></td>
</tr>
<tr>
<td>MG 415 International Business Dynamics</td>
<td></td>
</tr>
<tr>
<td>MK 416 International Marketing</td>
<td></td>
</tr>
<tr>
<td>AC 440 International Accounting: From a User's Perspective</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

<sup>1</sup> Must earn a grade of C or better in all stated prerequisites for all business courses and have an overall 2.0 GPA.

<sup>2</sup> Must be taken as a senior in last term.

### Major Requirements for Management (p. 243)

### Major Requirements for Information Systems (p. 244)

### Management Major

The management major is designed to provide students with the ability to be effective decision makers in an organizational setting. The objective of the major is to enable students to acquire the knowledge and skills necessary for gaining entry into a management career and for sustaining successful performance throughout that career. Internships and elective courses in entrepreneurship are also available.

Students must earn at least a grade of C in all stated prerequisite courses for all of the management concentrations. An overall 2.0 GPA in all courses used in the major is also required. At least 15 hours of the major courses must be taken at UAB. The university’s course forgiveness policy may be applied to all management major concentrations.

Management majors have the option of choosing one of the following concentrations: **Business Administration**, **Human Resource Management**, or **Operations Management** as a major. A student not choosing a concentration will have a **Management** degree with no concentration.

### Business Administration Concentration

The business administration concentration is designed for students who seek more flexibility within the management major by allowing them to select courses from other disciplines to round out the major. Besides providing greater flexibility, the student can select advanced studies in
Major Requirements for Management with Business Administration Concentration

Requirements | Hours
---|---
Grade and GPA Requirement
Students must earn a grade of C or better in all stated prerequisites for all major courses, have an overall 2.0 GPA and have an overall 2.0 GPA in all major courses.

Management courses
- MG 401 Organizational Behavior 3
- MG 409 Human Resource Management 3
- MG 417 Project Management 3
- Upper level FN 3
- Upper level EC 3
- Upper level MK 3
- Upper level advisor approved Business Electives 6

Total Hours 24

Human Resource Management Concentration

The human resource management concentration is designed for students who wish to pursue a career in human resources, to develop knowledge of employee relations for continuing career development, or to gain skills in the increasingly important area of the overall management task.

Major Requirements for Management with Human Resource Management Concentration

Must earn a grade of C or better in all stated prerequisites for all major courses, have an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

Requirements | Hours
---|---
MG 401 Organizational Behavior 3
MG 409 Human Resource Management 3
MG 411 Compensation Administration 3
MG 412 Employee Selection and Development 3
MG 413 Employment Law 3
MG 425 Mnging through Ldrship 3

Required HR Elective
Select any two 300 level or above Management (MG) courses not previously taken or required. 6

Total Hours 24

1 Students must have a C or better in order to take MG 411 and MG 412

Operations Management Concentration

Requirements for a Major in Management with a Concentration in Operations Management

Students must earn a grade of C or better in all stated prerequisites for all major courses, have an overall 2.0 GPA and have an overall 2.0 GPA in all major courses.

Management Courses
- MG 401 Organizational Behavior 3
- MG 409 Human Resource Management 3
- MG 413 Employment Law 3
- MG 425 Mnging through Ldrship 3

Select 4 from the following 12
- MG 416 Supply Chain Management
- MG 417 Project Management
- MG 418 Quality Management
- MG 445 Management Internship

Any 300/400 advisor approved course

Total Hours 24

Information Systems Major

The information systems major is designed to provide students with the foundational knowledge and managerial skills to pursue a career in an information systems user department or as a professional responsible for the analysis and design and/or the implementation of a complex information system.

Students must have a minimum grade of C in all information systems courses, numbered 200 and above, that are applied to the major. The grade of C is a prerequisite for all information systems courses numbered 300 or above. In addition, students must have a grade of C or better and an overall C average in all major courses. At least 15 hours of the major
must be taken at UAB. The university’s course forgiveness policy may be 
applied to this major.

**Major Requirements for Information Systems**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Systems Requirements</td>
<td></td>
</tr>
<tr>
<td>IS 204 Introduction to Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>IS 301 Introduction to Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 321 Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MG 417 Project Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 302 Enterprise Systems</td>
<td>3</td>
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</tbody>
</table>

**Information Systems Electives**

Select 9 hours from Information Systems courses.

9

**Business Elective**

Select three hours from 300-level or higher business courses (must earn a grade of C or better in course, have an overall 2.0 GPA, and have an 2.0 GPA in major courses)

3

Total Hours

27

**Admissions Requirement**

Students must be admitted to the Collat School of Business. Please review the School’s Admissions Requirements.

**Collat School of Business Requirements**

Students must adhere to all Collat School of Business Academic Requirements and Information Systems major requirements. The university’s course forgiveness policy is allowed.

**Free Electives**

If the courses taken to satisfy all of the requirements will not meet the minimum credit hour requirement to graduate, free electives may be taken to reach the required number of hours.

**Proposed Program of Study for a Major in Management with a Business Administration Concentration**

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
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<td>EH 102</td>
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<tr>
<td>MA 105</td>
<td>3</td>
<td>CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
<td>BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities, Fine Arts³</td>
<td>3</td>
<td>IS 103</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3</td>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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</tr>
</tbody>
</table>

15 16

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM 214</td>
<td>3</td>
<td>LS 246</td>
<td>3</td>
</tr>
<tr>
<td>AC 200</td>
<td>3</td>
<td>QM 215</td>
<td>3</td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>AC 201</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>EC 211</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Curriculum Area

III: Natural Science (with laboratory)

16 15

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 350</td>
<td>3</td>
<td>MG 403</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>3</td>
<td>MG 409</td>
<td>3</td>
</tr>
<tr>
<td>MG 302⁴</td>
<td>3</td>
<td>MG 417</td>
<td>3</td>
</tr>
<tr>
<td>FN 310</td>
<td>3</td>
<td>Core Curriculum Area IV: History²</td>
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<tr>
<td>EC 304 or 320</td>
<td>3</td>
<td>International Business Elective³</td>
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15 15

**Senior**

<table>
<thead>
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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MG 401</td>
<td>3</td>
<td>BUS 450</td>
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<tr>
<td>IS 303</td>
<td>3</td>
<td>Finance Elective⁵</td>
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<td>Marketing Elective⁵</td>
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<td>Business Course Elective</td>
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</tr>
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</table>

Total credit hours: 120

¹ Select one from the following courses: ARH 101, MU 120 or THR 100.

² Choose from AC 440, EC 407, MG 415, MK 416, FN 412, or IB 495.

³ Junior standing required (60 semester hours credit)

⁴ Select one from: Any 300/400 MK course.

⁵ Select one from: Any 300/400 FN course.

**Proposed Program of Study for a Major in Management**

**Freshman**

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<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tr>
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<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
<td>IS 103</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social &amp; Behavioral Science</td>
<td>3</td>
<td>BUS 110</td>
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<tr>
<td>Core Curriculum Area II: Humanities, Fine Arts¹</td>
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<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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15 16

**Sophomore**

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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>QM 214</td>
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<td>AC 200</td>
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<tr>
<td>EC 210</td>
<td>3</td>
<td>AC 201</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>EC 211</td>
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Core Curriculum Area

4 Core Curriculum Area II | 3

16 15
## Proposed Program of Study for a Major in Human Resource

**Freshman**

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<tbody>
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<td>3 CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3 IS 103</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities, Fine Art¹</td>
<td>3 BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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**Junior**

<table>
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<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>BUS 350</td>
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<tr>
<td>MK 303</td>
<td>3 MG 409</td>
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<tr>
<td>MG 302⁴</td>
<td>3 MG 403</td>
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<tr>
<td>FN 310</td>
<td>3 Core Curriculum Area IV: History²</td>
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<td>IS 303</td>
<td>3 International Business</td>
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</tr>
<tr>
<td>MG 425</td>
<td>3 Elective³</td>
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**Senior**

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<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MG 401</td>
<td>3 BUS 450</td>
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<tr>
<td>MG 411</td>
<td>3 MG 412</td>
<td>3</td>
</tr>
<tr>
<td>Management Electives (300/400 level)</td>
<td>6 MG 403</td>
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<tr>
<td>General Elective</td>
<td>3 General Electives</td>
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</tbody>
</table>

**Total credit hours: 120**

¹ Select one from: ARH 101, MU 120 or THR 100.
² Select one from: HY 101, HY 102, HY 104, HY 105 HY 120 or HY 121.
³ Select one from: MG 415, MG 416, FN 412, EC 407, AC 440 or IB 495.
⁴ Junior Standing (60 semester hours of credit).

## Proposed Program of Study for a Major in Information Systems

**Freshman**

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<td>BUS 101</td>
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<tr>
<td>Core Curriculum Area II: Humanities, Fine Art¹</td>
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<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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**Sophomore**

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<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>QM 214</td>
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<td>AC 200</td>
<td>3 QM 215</td>
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<td>EC 210</td>
<td>3 AC 201</td>
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<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3 EC 211</td>
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</tr>
<tr>
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**Junior**

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<th>First Term</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BUS 350</td>
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<td>3 IS 301</td>
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<tr>
<td>IS 321</td>
<td>3 MG 302</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>3 IS 204</td>
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</table>
Department of Marketing, Industrial Distribution, and Economics

Chair: Robert A. Robicheaux

The Department of Marketing, Industrial Distribution, and Economics supports the mission of the School of Business through the department’s majors and course offerings. Majors within the department are designed around discipline-based theory and real-world applications.

The department is responsible for activities in marketing, industrial distribution, economics, and legal studies.

Upper Level Business Requirements

For Marketing, Industrial Distribution, Economics and The Medical Equipment and Supplies Distribution Concentration

**Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Grade and GPA Requirement</td>
<td>Students must earn a grade of C or better in all stated prerequisites for all business courses and have an overall 2.0 GPA.</td>
</tr>
<tr>
<td>Upper-Level Requirements</td>
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<tr>
<td>BUS 350</td>
<td>Business Communications</td>
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<tr>
<td>FN 310</td>
<td>Fundamentals of Financial Management</td>
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<td>Basic Marketing</td>
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<td>DB 320</td>
<td>Distribution Management</td>
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<td>IS 303</td>
<td>Information Systems</td>
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<tr>
<td>MG 302</td>
<td>Management Processes and Behavior/SL</td>
</tr>
<tr>
<td>Capstone Requirement</td>
<td></td>
</tr>
<tr>
<td>MK 450</td>
<td>Strategic Marketing (Marketing Majors)</td>
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<tr>
<td>BUS 450</td>
<td>Strategic Management Capstone Experience (Industrial Distribution Majors)</td>
</tr>
<tr>
<td>or MK 450</td>
<td>Strategic Marketing</td>
</tr>
<tr>
<td>BUS 450</td>
<td>Strategic Management Capstone Experience (Economics Majors)</td>
</tr>
<tr>
<td>International Business Requirement</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>EC 407</td>
<td>International Economics (Economics majors must take this course.)</td>
</tr>
<tr>
<td>FN 412</td>
<td>International Financial Management</td>
</tr>
<tr>
<td>MG 415</td>
<td>International Business Dynamics</td>
</tr>
<tr>
<td>MK 416</td>
<td>International Marketing</td>
</tr>
</tbody>
</table>
Major Requirements for Marketing (p. 248)

Major Requirements for Industrial Distribution (p.  )

Major Requirements for Economics (p. 249)

Marketing Major

The objective of the major in marketing is to prepare students for a wide range of marketing jobs in both business and not-for-profit organizations and to place our graduates in rewarding and productive careers. Graduates find career opportunities in commercial and industrial distribution, marketing management, marketing research, supply chain management, purchasing, promotion, and advertising. The major is an excellent foundation for graduate work in marketing, Law School or a M.B.A. degree. Students must concentrate in an area of marketing through elective courses offered by the MIDE and MISQ departments. Concentrations include Marketing Management, Professional Sales Management, Retail Marketing Management, and Social Media Marketing.

Students must earn at least a grade of C in all stated prerequisite courses for the marketing requirements. A 2.0 GPA for all courses applied to the major is also required. At least 15 hours of the major courses must be taken at UAB. The UAB forgiveness policy may be applied to this major.

Concentration in Marketing Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marketing Major Courses</strong></td>
<td></td>
</tr>
<tr>
<td>MK 320 Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td><strong>Marketing Management Concentration</strong></td>
<td></td>
</tr>
<tr>
<td>MK 312 Retail Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 421 Entrepreneurship and Marketing Planning</td>
<td>3</td>
</tr>
<tr>
<td>Two Marketing Electives at the 400 level or above</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

Concentration in Professional Sales Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marketing Major Courses</strong></td>
<td></td>
</tr>
<tr>
<td>MK 320 Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration in Retail Marketing Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marketing Major Courses</strong></td>
<td></td>
</tr>
<tr>
<td>MK 320 Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td><strong>Concentration in Retail Marketing Management</strong></td>
<td></td>
</tr>
<tr>
<td>MK 312 Retail Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 420 Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 430 Industrial Distribution Operations</td>
<td>3</td>
</tr>
<tr>
<td>One Marketing Course at the 400 level</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

Concentration in Social Media Marketing

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marketing Major courses</strong></td>
<td></td>
</tr>
<tr>
<td>MK 320 Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Media Marketing Concentration</strong></td>
<td></td>
</tr>
<tr>
<td>MK 401 Social Media in Marketing</td>
<td>3</td>
</tr>
<tr>
<td>One Marketing Elective Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select two from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>IS 415 Social Media &amp; Virtual</td>
<td>3</td>
</tr>
<tr>
<td>IS 416 Web Analytics</td>
<td>3</td>
</tr>
<tr>
<td>IS 417 Introduction to Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

Industrial Distribution Major

The Charles & Patsy Collat Industrial Distribution Program is one of a small number of such programs in the world that prepares graduates for technical sales, operations, logistics, marketing and purchasing positions specifically for industrial and medical firms. This challenging and engaging program provides two highly focused tracks from which students choose between as an area of concentration: Industrial Distribution or Medical Equipment and Supplies Distribution. These concentrations allow students the opportunity to gain specialized knowledge unique to each of these industries.

Industrial Distribution Concentration:

The Industrial Distribution concentration provides students with a comprehensive understanding of issues and solutions facing suppliers, distributors, and customers as they move technical products and provide services through supply chain networks. Preparing students for careers with manufacturers or distributors in a technical industry, graduates are
prepared to work in positions such as sales, operations, or purchasing for companies that manufacture technical equipment, or for companies that distribute these products. While enrolled in the ID Program, students receive instruction and mentoring from faculty in the Collat School of Business as well as from faculty in the School of Engineering. An internship is a required component of the ID Program, and enables students to receive direct training and exposure to the field in which they are preparing to work.

**Major Requirements for Industrial Distribution**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grade and GPA Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Students must maintain an overall 2.0 GPA and an overall 2.0 GPA in all major courses.</td>
<td></td>
</tr>
<tr>
<td><strong>Lower Level Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>ME 103 Drawing, Design and Measurement for Industrial Distribution</td>
<td>3</td>
</tr>
<tr>
<td><strong>Advanced Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>ME 302 Overview of Mechanical Components</td>
<td>3</td>
</tr>
<tr>
<td>EE 305 Fundamentals of Electrical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>MSE 350 Introduction to Materials</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Marketing Courses</strong></td>
<td></td>
</tr>
<tr>
<td>MK 320 Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 430 Industrial Distribution Operations</td>
<td>3</td>
</tr>
<tr>
<td>MK 435 Industrial Distribution Policies and Quality Issues</td>
<td>3</td>
</tr>
<tr>
<td>MK 495 Industrial Distribution Directed Studies/Practicum</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>28</td>
</tr>
</tbody>
</table>

**Industrial Distribution Electives**

The industrial distribution program permits students to choose the following area of emphasis through the selection of approved electives:

**Industrial Distribution, Marketing, and Sales**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industrial Distribution Electives</strong></td>
<td></td>
</tr>
<tr>
<td>MK 312 Retail Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td>MK 421 Entrepreneurship and Marketing Planning</td>
<td>3</td>
</tr>
<tr>
<td>MK 450 Strategic Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

1 Completion of this sequence constitutes a double major in Industrial Distribution and Marketing.

**Medical Equipment and Supplies Distribution Concentration**

The Medical Equipment and Supplies program integrates the Business curriculum with distribution and human anatomy and health professions classes to prepare graduates for careers in the medical equipment and supplies industry. Many students come to UAB to pursue careers in health care. A Medical Equipment and Supplies Distribution concentration is designed to provide students with the skills necessary to succeed in the health care industry as a direct service provider in the supply chain, purchasing, distribution operations and sales sectors of health care products and services.

**Major Requirements for Industrial Distribution With Medical Equipment and Supplies Distribution Concentration**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lower Level Biology Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy (Cannot be used in Core Area III)</td>
<td>4</td>
</tr>
<tr>
<td>BY 115L Human Anatomy Laboratory</td>
<td>0</td>
</tr>
<tr>
<td><strong>Allied Health Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>AHS 350 Medical Terminology for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select two from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>AHS 330 Health Care Systems</td>
<td></td>
</tr>
<tr>
<td>AHS 416 Financial Management in Health Care Organizations</td>
<td></td>
</tr>
<tr>
<td>AHS 435 Survey of Clinical and Administrative Information Systems</td>
<td></td>
</tr>
<tr>
<td>MK 490 Special Topics in Marketing (Health Care Marketing)</td>
<td></td>
</tr>
<tr>
<td>EC 306 Health Care Economics</td>
<td></td>
</tr>
<tr>
<td>FN 360 Fundamentals of Healthcare Financial Management</td>
<td></td>
</tr>
<tr>
<td><strong>Required Business Courses</strong></td>
<td></td>
</tr>
<tr>
<td>DB 320 Distribution Management (completed as upper level core class)</td>
<td>3</td>
</tr>
<tr>
<td>DB 430 Distribution Operations</td>
<td>3</td>
</tr>
<tr>
<td>DB 435 Distribution Policies and Quality Issues</td>
<td>3</td>
</tr>
<tr>
<td>DB 495 Distribution Directed Studies Practicum</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>28</td>
</tr>
</tbody>
</table>

1 Must maintain an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

**Economics Major**

The major in economics is designed to provide students with a solid grounding in economic analysis and decision making. These skills allow students to follow many career paths in business and government. Also, this major provides excellent training for students planning to pursue graduate work in economics, law, or business.

Students must earn at least a grade of C in all stated prerequisite courses any in both economics major concentrations. A 2.0 GPA in all courses used in the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to both economics major concentrations.

Economics majors should select a concentration in Economic Analysis and Policy, or Philosophy, Politics and Economics as a major.

**Economic Analysis & Policy Concentration**

This concentration is suited for students who desire an understanding of the functions of the economy at the micro and macro levels. The analytical skills acquired provide excellent preparation for a variety of careers in industry and government, as well as graduate studies in law or public policy.
Students must earn a minimum grade of C in all stated prerequisite courses for any economics major concentration. A 2.0 GPA in all courses applied to the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to either economics major concentration.

**Major Requirements For Economics With Economic Analysis & Policy Concentration**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Economics Requirements</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>EC 304 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 305 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Economics Major Electives</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Select six 300-level or higher Economics (EC) courses (Maximum of two 400-level QM courses)&lt;sup&gt;2&lt;/sup&gt;</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

<sup>1</sup> Must earn a grade of C or better in stated prerequisites, have overall 2.0 GPA, and have overall 2.0 GPA in all major courses.

<sup>2</sup> Note: Each course used only once.

**Philosophy, Politics and Economics Concentration**

The Philosophy, Politics and Economics Concentration focuses on topics in the intersection of philosophy, political science and economics. This concentration trains students to attack a wide range of problems using rigorous analytical techniques. It is an excellent basis for graduate study in philosophy, public policy, or political science, as well as for those planning to attend law school or for those anticipating careers in journalism, politics, management, intelligence, marketing, industrial organization and many other fields.

Students must earn at least a grade of C in all stated prerequisite courses for an economics major concentration. A 2.0 GPA in all courses used in the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to either economics major concentration.

**Major Requirements For Economics with a Philosophy, Politics and Economics Concentration**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Philosophy Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>PHL 120 Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 230 Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 470 Philosophical Problems in the Natural and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>PHL 135 The Rule of Law</td>
<td></td>
</tr>
<tr>
<td>One 300 or higher PHL course</td>
<td></td>
</tr>
<tr>
<td><strong>Economics Requirements</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>EC 304 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 305 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Philosophy and Political Economy Requirements</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>EC 320 Behavioral Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 330 Cooperation and Competition</td>
<td>3</td>
</tr>
<tr>
<td>EC 450 Economics, Institutions &amp; Law</td>
<td>3</td>
</tr>
<tr>
<td><strong>Economics Major Electives</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Select three 300-level or higher Economics (EC) courses (maximum of two 400-level QM courses)&lt;sup&gt;2&lt;/sup&gt;</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>36</td>
</tr>
</tbody>
</table>

<sup>1</sup> Must earn a grade of C or better in stated prerequisites, have overall 2.0 GPA, and have overall 2.0 GPA in all major courses.

<sup>2</sup> Note: Students may NOT apply any course to this requirement and the Upper-Level Economics Requirement and/or IB requirement. Each course only once.

**Admissions Requirement**

Students must be admitted to the School of Business. Please review the School of Business Admissions Requirements.

**School of Business Requirements**

Students must adhere to all School of Business Academic Requirements and major requirements. The university’s course forgiveness policy is allowed.

**Free Electives**

If the courses taken to satisfy all of the requirements will not meet the minimum credit hour requirement to graduate, free electives may be taken to reach the required number of hours.

**Proposed Program of Study for a Major in Marketing - Marketing Management Concentration**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 101</td>
<td>3 CMST 101</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 105</td>
<td>3 IS 103</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Arts&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3 BUS 110</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3 Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM 214</td>
<td>3 LS 246</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC 200</td>
<td>3 QM 215</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC 210</td>
<td>3 AC 201</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>4 EC 211</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3 Core Curriculum Area II</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 350</td>
<td>3 MK 312</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
### Proposed Program of Study for a Major in Marketing - Professional Sales Concentration

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3 Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>4</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 105</td>
<td>3 CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Arts</td>
<td>3 IS 103</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3 BUS 110</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>3 LS 246</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3 QM 215</td>
<td>3</td>
</tr>
<tr>
<td>AC 200</td>
<td>3 AC 201</td>
<td>3</td>
</tr>
<tr>
<td>EC 210</td>
<td>3 EC 211</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 350</td>
<td>3 MK Elective</td>
<td>3</td>
</tr>
<tr>
<td>MK 303&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 MK 330</td>
<td>3</td>
</tr>
<tr>
<td>MG 302&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3 MK 410</td>
<td>3</td>
</tr>
<tr>
<td>MG 403 or DB 320</td>
<td>3 FN 310</td>
<td>3</td>
</tr>
<tr>
<td>IS 303</td>
<td>3 DB 320&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Area IV: History&lt;sup&gt;5&lt;/sup&gt;</td>
<td>3 International Business</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Elective (300/400 level)</td>
<td>3 300/400 MK elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 General Electives</td>
<td>4</td>
</tr>
<tr>
<td>MK 408</td>
<td>3 MK 450</td>
<td>3</td>
</tr>
<tr>
<td>MK 420</td>
<td>3 MK 425</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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Total credit hours: 120

---

### Proposed Program of Study for a Major in Marketing - Retail Marketing Management Concentration

**Freshman**

<table>
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<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EH 101</td>
<td>3 Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>4</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3 EH 102</td>
<td>3</td>
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<tr>
<td>MA 105</td>
<td>3 CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Arts</td>
<td>3 IS 103</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3 BUS 110</td>
<td>3</td>
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**Sophomore**

<table>
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<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>3 LS 246</td>
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<tr>
<td>QM 214</td>
<td>3 QM 215</td>
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<tr>
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**Junior**

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<td>3 MK 330</td>
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<tr>
<td>MG 302&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3 MK 410</td>
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<tr>
<td>MG 403 or DB 320</td>
<td>3 FN 310</td>
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<tr>
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**Senior**

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<tbody>
<tr>
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<td>3 General Electives</td>
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<tr>
<td>General Elective</td>
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<td>MK 408</td>
<td>3 MK 430</td>
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## Proposed Program of Study for a Major in Marketing - Social Media Marketing Concentration

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<tbody>
<tr>
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<tr>
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<td>EH 102</td>
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<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3 BUS 110</td>
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<tr>
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<tr>
<td>Core Curriculum Area II: Literature</td>
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<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BUS 350</td>
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<td>MG 302</td>
<td>3</td>
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<td>MG 302</td>
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</tr>
<tr>
<td>MG 403 or DB 320</td>
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<td>FN 310</td>
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<tr>
<td>IS 303</td>
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<td></td>
<td>DB 320</td>
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<tbody>
<tr>
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<td>Core Elective</td>
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<td>General Electives</td>
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<td>MK 408</td>
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<td>IS Major Elective</td>
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</table>

Total credit hours: 120

1. Select one of the following: ARH 101, MU 120 or THR 100.
2. May be taken concurrently.
3. Junior Standing (60 semester hours credit)
4. If DB 320 was completed rather than MG 403, an alternate 300/400 level MK elective must be completed to fulfill major requirements.

## Proposed Program of Study for a Major in Industrial Distribution: Engineering Concentration

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<tbody>
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<td>BUS 101</td>
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<td>Core Curriculum Area II: Fine Art</td>
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<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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<table>
<thead>
<tr>
<th>Sophomore</th>
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<tbody>
<tr>
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<td>EC 210</td>
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<tr>
<td>ME 103</td>
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<td>EC 211</td>
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<tr>
<td>Core Curriculum Area II: Literature</td>
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<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BUS 350</td>
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<td>MK 303</td>
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<tbody>
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<td>BUS 450</td>
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<tr>
<td>DB 460</td>
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Total credit hours: 125

1. Select one from: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select one from: ARH 101, MU 120 or THR 100.
3. May be taken concurrently.
4. Junior Standing (60 semester hours of credit).
## Proposed Program of Study for a Major in Industrial Distribution with a Concentration in Medical Equipment and Supplies Distribution

<table>
<thead>
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<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>EH 102</td>
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<td>MA 105</td>
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<td>BUS 101</td>
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<td>IS 103</td>
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<td>Core Curriculum Area II: Fine Arts²</td>
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<td>Core Curriculum Area II: Social and Behavioral Science</td>
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<td>Core Curriculum Area III: Natural Science</td>
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**Sophomore**

<table>
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<tbody>
<tr>
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<td>EC 210</td>
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<td>AC 201</td>
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<tr>
<td>Core Curriculum Area II: Literature</td>
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<td>EC 211</td>
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<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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**Junior**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>BY 115</td>
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<td>MK 303³</td>
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<td>MK 416</td>
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<td>MG 302⁴</td>
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<td>IS 303</td>
<td>3 General Elective</td>
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**Senior**

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Total credit hours: 123

¹ Select one from: HY 101, HY 102, HY 120 or HY 121.
² Select one from: ARH 101, MU 120 or THR 100.
³ May be taken concurrently
⁴ Junior Standing (60 semester hours of credit)

## Proposed Program of Study for a Major in Economics with a Concentration in Analysis and Policy

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<tr>
<td>BUS 101</td>
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<td>IS 103</td>
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<td>Core Curriculum Area II: Fine Arts¹</td>
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<td>BUS 110</td>
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<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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**Sophomore**

<table>
<thead>
<tr>
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<th>Second Term</th>
<th>Hours</th>
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<tr>
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**Junior**

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<td>IS 303</td>
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**Senior**

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<td>BUS 450</td>
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Total credit hours: 120

## Proposed Program of Study for a Major in Economics with a Concentration in Philosophy, Politics, and Economics

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<td>MA 105</td>
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<tr>
<td>BUS 101</td>
<td>3</td>
<td>IS 103</td>
<td>3</td>
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<td>Core Curriculum Area II: Fine Arts¹</td>
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<td>BUS 110</td>
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</table>
Core Curriculum Area IV: Social and Behavioral Science 3  
III: Natural Science (with laboratory) 4

<table>
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<th>Term</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
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<td>LS 246</td>
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<td>EC 304</td>
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<td>PHL 470</td>
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<td>EC 305</td>
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<tr>
<td></td>
<td>or FN 412</td>
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</table>

Total credit hours: 125
School of Engineering

Dean: J. Iwan Alexander
Associate Dean: Alan W. Eberhardt
Assistant Dean for Undergraduate Programs: Zoe B. Dwyer

The School of Engineering provides professional education in engineering through the Departments of Biomedical Engineering; Civil, Construction, and Environmental Engineering; Electrical and Computer Engineering; Materials Science and Engineering; and Mechanical Engineering.

Each undergraduate curriculum is comprised of four components: the UAB Core Curriculum as specified for engineering majors; basic mathematics and science courses; a series of engineering courses intended to provide a breadth of technical education; and concentrated study in a particular engineering discipline. The curricula are designed to prepare the graduate to practice the profession of engineering and effectively participate as a member of society. All undergraduate programs are accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org.

At the graduate level, the School of Engineering offers programs of study leading to the Master of Science in Biomedical Engineering, the Master of Science in Civil Engineering, the Master of Science in Electrical Engineering, the Master of Science in Materials Engineering, and the Master of Science in Mechanical Engineering. A Master of Engineering degree is offered with concentrations in Construction Engineering Management, Information Engineering and Management, and Advanced Safety Engineering and Management. The Doctor of Philosophy degree in Biomedical Engineering and the Doctor of Philosophy degree in Interdisciplinary Engineering are also offered. Joint Doctor of Philosophy degrees are offered in Materials/Metallurgical Engineering, Materials Science, and Civil Engineering. A shared Doctor of Philosophy degree in Computer Engineering is available.

In order to keep pace with accreditation standards as well as educational and technological developments, the School of Engineering reserves the right to make changes in its degree requirements. Changes may be applied to students already enrolled; but, in such cases, every effort will be made to give the student the benefit of the new educational program without imposing undue hardships.

Vision

To be nationally and internationally recognized as a top research-oriented School of Engineering: a first choice for a quality undergraduate and graduate education.

Mission

To create and apply knowledge for the benefit of society, and to prepare engineering graduates to be immediately productive and able to adapt and to lead in a rapidly changing environment.

Goals

• Provide an excellent educational experience for a community of highly capable students that reflect the diversity of our society
• Develop an education and research program that fosters the development of a community of scholars capable of defining and solving problems to benefit society
• Develop an internationally recognized research program focused in distinctive multi-disciplinary areas
• Develop extensive and mutually beneficial relationships that foster understanding, respect, and a sense of common responsibility
• Provide an environment where faculty and staff can achieve their full potential for the mutual benefit of the School and the individual

School of Engineering Office of Academic Programs

UAB School of Engineering • Hoehn Engineering Building • 1075 13th Street South Suite 101 • Birmingham, Alabama 35294-4440 • Telephone: (205) 934-8410 • Email: enginfo@uab.edu (info@uab.edu)

UAB Admissions Office

1701 11th Ave South• Birmingham, Alabama 35294-1150 • Telephone: (205) 934-8221 • Email: choose@uab.edu (undergradadmit@uab.edu)

Pre-college Preparation

The recommended program of high school preparation for the study of engineering includes four units of English; four units of mathematics (including algebra, geometry, trigonometry, and calculus); four units of science (biology, chemistry, and physics are strongly recommended); and four units of social science (history, psychology, sociology, etc.). Mechanical drawing, keyboarding, and computer science are also excellent preparatory courses.

Admission to the School of Engineering

In addition to satisfying the general requirements for admission to UAB listed in the Undergraduate Catalog, incoming students must be eligible to enroll in Pre-Calculus Algebra (MA 105) or higher in the pre-calculus series to be admitted to the School of Engineering. Students who do not satisfy this requirement but are still interested in an engineering program should successfully complete the course(s) necessary to satisfy the requirement(s) as a Liberal Arts student in the College of Arts and Sciences and then request a major change.

All freshmen students who meet the requirement for admission to the School of Engineering are admitted as Pre-Biomedical, Pre-Civil, Pre-Electrical, Pre-Materials, or Pre-Mechanical Engineering major based on their intended program. Undecided students are admitted as Pre-General Engineering students. Freshmen indicating an interest in Biomedical Engineering with an ACT score of 28 or higher (or SAT equivalent) and a high school GPA of at least 3.20 may be admitted directly to the Biomedical Engineering program. Students admitted to UAB conditionally or on academic probation are not eligible for admission to the School of Engineering and may be admitted to an engineering program only upon successful completion of the requirements for advancement listed below.

In addition to math placement into Pre-Calculus Algebra (MA 105) or higher, all transfer students or students seeking re-admission to UAB must have a cumulative GPA of 2.20 and, if applicable, an institutional (UAB) GPA of 2.20 to be admitted to the School of Engineering. These students are admitted as Pre-Civil, Pre-Electrical, Pre-Materials, or Pre-Mechanical Engineering majors based on their intended program. Students seeking admission to Biomedical Engineering are admitted to Pre-Biomedical Engineering if they have a cumulative GPA of 3.20 and, if applicable, an institutional (UAB) GPA of 3.20. Transfer and returning students receive a Pre-Engineering designation for a minimum of one semester following admission to UAB and are then admitted to their
chosen department upon completion of the minimum requirements listed below.

Students who are seeking admission to the School of Engineering and are currently enrolled in other UAB schools or divisions must have an institutional (UAB) GPA of 2.20 (3.20 for Pre-Biomedical) or greater and must be eligible to enroll in Pre-Calculus Algebra (MA 105) or higher in the pre-calculus series.

Requirements for Advancing from Pre-Engineering to Civil, Electrical, Materials or Mechanical Engineering

In order to advance from pre-engineering to one of the engineering majors listed above, students must meet the following minimum requirements:

• Sophomore standing
• Completion (C or better) of MA 125 Calculus I and MA 126 Calculus II
• Completion (C or better) of two required science courses with appropriate labs
• Completion of EGR 110 and EGR 111 (or EGR 200), ME 102 Engineering Graphics, and EGR 150 or BME 150 (or equivalent)
• An institutional (UAB) GPA of 2.20

Requirements for Advancing from Pre-Engineering to Biomedical Engineering

In order to advance from pre-engineering to Biomedical Engineering, students must meet all of the following minimum requirements:

• Sophomore standing
• Completion (C or better) of MA 125 Calculus I and MA 126 Calculus II
• Completion (C or better) of two required science courses with appropriate labs
• Completion of EGR 110 and EGR 111 (or EGR 200)
• Completion of ME 102 Engineering Graphics
• An institutional (UAB) GPA of 3.20 (and cumulative [UAB + transfer] GPA of 3.20 if applicable)

If a Pre-Biomedical or Pre-Engineering student is not eligible to advance into Biomedical Engineering after completing a maximum of 64 hours of course work, they may advance into another engineering major if the qualifications for that major (as listed above) are met.

Change of Major within the School of Engineering

Students changing majors within the School of Engineering should follow procedures outlined under Declaration of Major in this catalog. Students must meet the requirements listed previously.

Transfer Credit

In addition to guidelines for transfer credit outlined in the current UAB catalog, the following policies apply to students transferring into the School of Engineering:

1. The UAB School of Engineering may grant transfer credit for engineering, math and science courses taken at another institution only if a grade of C or higher was earned. Students admitted to the School of Engineering who have earned a grade of D in a course within a required sequence of courses may be required to repeat all or part of the sequence.

2. Engineering technology courses are not equivalent to engineering courses.

Dual Degree Program Participants

Dual degree program participants from cooperating four-year institutions must provide the following information to School of Engineering advisors in order to advance from pre-engineering to an engineering major:

• A letter or email from the student acknowledging their participation in the Dual Degree Program and intent to complete an Engineering degree at UAB.
• A letter from the cooperating institution stating that the student has successfully completed the general education requirements at that institution, and will be awarded a degree from the institution upon completion of UAB Engineering requirements.

Reasonable Progress

All students in the School of Engineering must continually make reasonable progress toward the completion of their academic programs. To assure that students are achieving reasonable academic progress towards graduation, the School of Engineering provides academic advice and planning each term through EGR 110 and EGR 111 and appointments with assigned engineering advisors. During advising, students receive a registration access code (RAC) which will allow them to register for courses the following semester. Pre-Engineering students in all disciplines are advised by engineering faculty in the School of Engineering’s Office of Academic Programs (OAP). Upon admission to Biomedical, Civil, Electrical, Materials or Mechanical Engineering, students are advised by engineering faculty within their major.

Reasonable progress is defined as follows:

1. All courses required for a degree in engineering, as well as any preparatory courses which individual students may be required to take, must be successfully completed within three attempts. Withdrawal from a course constitutes an attempt. Failure to do so will result in transfer to the College of Arts and Sciences with a Liberal Arts designation. This policy applies to all courses taken after admission to UAB.

2. All students must comply with appropriate prerequisite and concurrent requirements for all courses in which they enroll. Students will be administratively withdrawn from engineering courses for which they do not meet prerequisite or concurrent requirements.

3. All required courses in an engineering curricula failed at UAB must be repeated at UAB for the student to apply the course to degree requirements.

4. Engineering students with the exception of students majoring in biomedical engineering must maintain a GPA of at least 2.00 in all UAB courses and all UAB engineering courses. Biomedical engineering majors must maintain an institutional (UAB) GPA of at least 3.00.

5. Engineering students must successfully complete two courses applicable to their engineering program within an academic year.

6. If a pre-engineering student is not eligible to advance to an engineering major within 64 hours, the student may be dismissed from the School of Engineering and may not seek readmission to
the School of Engineering until another baccalaureate degree is earned.

**Academic Warning, Probation, and Suspension**

The School of Engineering follows the UAB Policy for Academic Warning, Probation, and Suspension with the following additions:

1. Students on Academic Warning or Probation are advised to register for no more than 14 semester credit hours per term.
2. While on Academic Warning or Probation, students may only register for 100- and 200-level engineering courses, or repeat courses for which they previously earned a grade of D or F.
3. Students suspended from the University will be removed from the School of Engineering and returned to the College of Arts and Sciences with a Liberal Arts designation if another major is not specified at the time of suspension. Students may not seek readmission to the School of Engineering unless, and until, the requirements for advancing from a pre-engineering designation to Civil, Electrical, Materials, Mechanical, or Biomedical Engineering are met.
4. First-term freshmen students in Biomedical Engineering who have an institutional (UAB) GPA below a 3.00 will be placed on academic warning in Biomedical Engineering. If their institutional (UAB) GPA is not a 3.00 or greater after the next term enrolled, the student will be placed on academic probation in Biomedical Engineering. Biomedical students (excluding first-term freshmen) who have an institutional (UAB) GPA below a 3.00 will be placed on academic probation in Biomedical Engineering. Biomedical Engineering students on academic probation who do not attain an institutional (UAB) GPA of 3.00 in their next term attempted will be reclassified as Pre-General Engineering.

**Appeal for Reinstatement to the School of Engineering**

A student suspended from the School of Engineering for failing to successfully complete a required course within three attempts must successfully complete the course at UAB before petitioning for reinstatement. In addition, a student suspended from the School of Engineering must meet the requirements necessary to advance to their intended major before petitioning for reinstatement. The petition should be addressed to the Associate Dean and should clearly state the circumstances resulting in their dismissal from the School and include steps taken to resolve the deficiency. The student’s petition should be received in the Office of the Associate Dean of Engineering no later than five working days prior to the beginning of the desired semester of re-entry.

**Graduation Requirements**

In addition to satisfying the general UAB graduation requirements (Baccalaureate Degrees), all engineering students must earn an engineering grade point average (GPA) of at least 2.00 in order to graduate. The engineering grade point average includes all engineering course work applicable to the degree attempted at UAB. Individual engineering programs may have additional graduation requirements which can be found in the program description. Students who are on academic warning or probation cannot graduate from the School of Engineering. The School of Engineering follows the University's Course Repeat and Forgiveness Policy as previously stated in this catalog.

**Office of Academic Programs**

**Director: Dr. Zoe B. Dwyer**

The freshman year program is similar among the engineering curricula at UAB. It is based upon substantial high school preparation in English, mathematics, and natural sciences. Students must enroll in appropriate English, chemistry, mathematics, or physics sequences according to placement. Incomplete preparation at the high school level is not unusual, and coursework to strengthen the student’s academic background is routinely offered by UAB. Advice on this subject may be obtained from the Office of Academic Programs.

**Suggested Freshman Year**

<table>
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<th>Hours</th>
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<tr>
<td>&amp; EGR 111</td>
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</tr>
<tr>
<td>ME 102</td>
<td>2</td>
</tr>
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<td>EGR 150</td>
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<td>&amp; 221L</td>
<td>4</td>
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<td><strong>Total Hours</strong></td>
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1. Transfer Students should substitute EGR 200 for EGR 110 and EGR 111
2. Except for Electrical Engineering
3. Except for Electrical Engineering and Mechanical Engineering

**Pre-Health Program Option**

A number of students choose a pre-health curriculum before pursing a course of study in one of the health disciplines, such as medicine, dentistry, or optometry. As health professions become more technologically based, engineering provides an excellent undergraduate preparation for these fields. All courses necessary for passage of professional-school entrance examinations should be completed by the end of the sophomore year.

<table>
<thead>
<tr>
<th>Requirements</th>
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<tr>
<td>BY 123</td>
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<td>BY 124</td>
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<tr>
<td>BY 271</td>
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<td>CH 237</td>
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<td>CH 238</td>
<td>1</td>
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</table>
Other courses in psychology, sociology, and computer sciences may be required. UAB School of Optometry requires one semester of psychology, two semesters of additional courses in any social and behavioral science, and one semester of Biochemistry. Biochemistry is strongly encouraged for pre-medical and pre-dentistry students. UAB School of Dentistry encourages additional courses to enhance manual dexterity (sculpting, painting, etc.). You are advised to check with the admissions office of the specific schools to which you are applying for further details.

Any undergraduate program in engineering can be configured to satisfy pre-health requirements but requires additional coursework. Further information on pre-health program options can be obtained from:

Dr. Dale S. Feldman • School of Engineering, Pre-Health Program Coordinator • Hoehn Engineering Building • 1075 13th Street South • Room 361 • Birmingham, Alabama 35294-4440

Core Curriculum as Specified for Engineering Majors

Students in the School of Engineering follow the University Core Curriculum, which includes EH 101 English Composition I and EH 102 English Composition II, with the following exceptions and additional specifications:

1. Engineering students are required to take 9 hours in Core Curriculum Area II: Humanities and Fine Arts to include a minimum of 3 semester hours in literature and 3 semester hours in the fine arts. The following courses are recommended as they best complement the technical coursework of engineering programs: CMST 101 Public Speaking, EH 217 World Literature I: Before 1660, EH 218 World Literature II: 1660-Present, PHL 115 Contemporary Moral Issues, PHL 116 Bioethics, and PHL 125 Introduction to Ethics.

2. Engineering students should take the following course to satisfy the Core Curriculum Area III Mathematics requirement: MA 125 Calculus I.

3. Engineering students should take the following courses to satisfy the Core Curriculum Area III Natural Science requirement: PH 221 General Physics I and PH 222 General Physics II.

4. Engineering students are only required to take 9 hours in Core Curriculum Area IV: History, Social and Behavioral Sciences to include a minimum of 3 semester hours in history. Please note: for Core Area IV, students cannot apply more than 6 hours of History. The following courses are recommended as they best complement the technical coursework of engineering programs: EC 210 Principles of Microeconomics, EC 211 Principles of Macroeconomics, ITS 101 Introduction to International Studies, PY 101 Introduction to Psychology, SOC 100 Introduction to Sociology, and SOC 245 Contemporary Social Problems.

5. Engineering majors must complete a six-semester-hour sequence in either Area II or Area IV. To be considered a sequence, courses must have the same prefix and must be sequential if possible. Sequences in history, such as HY 101 Western Civilization I and HY 102 Western Civilization II or literature, such as EH 221 British and Irish Literature I: Before 1800 and EH 222 British and Irish Literature II: 1800-Present are common. Two courses in a foreign language such as ARA 101 and ARA 102; CHI 101 and CHI 102; FR 101 and FR 102; FR 201 and FR 202; GN 101 and GN 102; GN 201 and GN 202; JPA 101 and JPA 102; SPA 101 and SPA 102; and SPA 201 and SPA 202 also fulfill this requirement. Any two Area II courses in one of the following disciplines: ARH, PHL or THR; or any two Area IV courses in one of the following disciplines: ANTH, EC, PSC, PY, or SOC, can also fulfill this requirement.

University Requirements for the School of Engineering

In order to receive a degree in the School of Engineering at UAB, a student must have at least 128 semester hours of acceptable credit.

Students majoring in disciplines other than engineering may choose a minor in engineering to become familiar with topics such as biomedical engineering, environmental engineering, electrical systems, engineering materials, thermodynamic sciences, applied mechanics, or software engineering. Because technology greatly affects most aspects of society, the study of technology in conjunction with the pursuit of a non-engineering major can provide a worthwhile career-oriented educational experience.

Because enrollment in engineering courses is restricted, it is essential that students with declared minors in engineering receive an approved program of study. These students should visit the School of Engineering Office of Academic Programs to receive relevant information. Students planning to minor in engineering should exercise care in the selection of courses to meet the requirements of their major as well as concurrently satisfying prerequisite requirements for engineering courses. Students should be particularly aware of the mathematics and natural sciences prerequisites.

Students majoring in engineering may select a minor from another engineering discipline as listed below, with the exception of engineering science. Engineering majors can apply no more than two of the courses required for their major toward completion of an engineering minor.

To satisfy the minor requirements, a minimum grade point average of 2.00 is required for all engineering coursework attempted for all programs except biomedical engineering which requires a minimum GPA of 3.00 in all engineering coursework. Transfer students wishing to earn a minor in engineering must take at least nine (9) semester hours at UAB and earn a minimum GPA of 2.00 in UAB engineering courses attempted with the exception of biomedical engineering. For the biomedical engineering minor, students must earn a minimum GPA of 3.00 in UAB engineering coursework attempted and must take at least nine (9) semester hours at UAB. Students who are not majoring in biomedical engineering but wish to enroll in 300- or 400-level BME courses must fulfill course prerequisites, have an institutional (UAB) GPA of at least 3.00, and be approved by the BME Undergraduate Program Director.

A non-engineering major who wishes to minor in engineering may choose one of the minor programs listed here.

Minor Requirements for Applied Mechanics

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<tr>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
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<td>Required Engineering Courses</td>
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<tr>
<td>CE 210 Statics</td>
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<tr>
<td>CE 220 Mechanics of Solids</td>
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<td>CE 360</td>
<td>Structural Analysis</td>
</tr>
<tr>
<td>ME 215</td>
<td>Dynamics</td>
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</tbody>
</table>

**Civil Engineering Electives**

Select three of the following courses: 9

- CE 420 Advanced Mechanics
- CE 460 Structural Mechanics
- CE 461 Introduction to the Finite Element Method
- CE 462 Advanced Structural Analysis
- CE 464 Structural Dynamics

**Total Hours** 21

---

**Minor Requirements For Biomedical Engineering**

**Requirements** **Hours**

**Grade Requirement**

A minimum GPA of 3.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 3.00 in UAB engineering courses attempted.

**Required Biomedical Engineering Courses**

- BME 210 Engineering in Biology 3
- BME 401 Undergraduate Biomedical Engineering Seminar 1

**Required Introduction to Engineering Course(s)**

- EGR 110 Introduction to Engineering I 2
- & EGR 111 and Introduction to Engineering II
- or EGR 200 Introduction to Engineering Design

**Biomedical Engineering Electives**

Select three of the following courses: 9

- BME 310 Biomechanics
- BME 312 Biocomputing
- BME 313 Bioinstrumentation
- BME 333 Biomechanics of Solids
- BME 340 Bioimaging
- BME 350 Biological Transport Phenomena

**Biomedical Engineering Electives**

Select two of the following courses: 6

- BME 408 Biofluids
- BME 417 Engineering Analysis
- BME 420 Implant-Tissue Interactions
- BME 423 Living Systems Analysis
- BME 435 Tissue Engineering
- BME 443 Medical Image Processing
- BME 446 Principles of MRI
- BME 450 Computational Neuroscience
- BME 461 Bioelectric Phenomena
- BME 471 Continuum Mechanics of Solids
- BME 480 Biomolecular Modeling

**Total Hours** 21

---

**Minor Requirements for Electrical Engineering**

**Requirements** **Hours**

**Grade Requirement**

A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.

**Required Electrical Engineering Courses**

- EE 210 Digital Logic 3
- EE 233 Engineering Programming Methods 3
- EE 300 Engineering Problem Solving II 3
- EE 312 Electrical Systems 3
- EE 316 Electrical Networks 4
- EE 351 Electronics 4

**Required Engineering Course**

- EGR 150 Computer Methods in Engineering 3

**Total Hours** 23

---

**Minor Requirements For Engineering Science**

**Requirements** **Hours**

**Grade Requirement**

A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.

**Required Engineering Courses**

- CE 210 Statics 3
- EE 312 Electrical Systems 3
- ME 241 Thermodynamics I 3
- MSE 280 Engineering Materials 3

**Required Introduction to Engineering Course(s)**

- EGR 110 Introduction to Engineering I 2
- & EGR 111 and Introduction to Engineering II
- or EGR 200 Introduction to Engineering Design

**Engineering Electives**

Select two of the following courses: 6-7

- EE 210 Digital Logic
- ME 215 Dynamics
- ME 321 Introduction to Fluid Mechanics

**Total Hours** 21
Minor Requirements For Environmental Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
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</table>

Required Civil Engineering Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<td>CE 236</td>
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<td>CE 337</td>
<td>Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CE 430</td>
<td>Water Supply/Drainage Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 480</td>
<td>Introduction to Water and Wastewater Treatment</td>
<td>3</td>
</tr>
</tbody>
</table>

Civil Engineering Electives

Select three of the following courses: 9

* CE 344  Civil Engineering Analysis I
* CE 433  Solid and Hazardous Wastes Management
* CE 434  Air Quality Modeling and Monitoring
* CE 437  Environmental Experimental Design and Field Sampling
* CE 485  Engineering Hydrology

Total Hours: 21

Minor Requirements For Materials Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
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Required Materials Engineering Courses

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<thead>
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<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
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<tr>
<td>MSE 280</td>
<td>Engineering Materials</td>
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<tr>
<td>MSE 281</td>
<td>Physical Materials I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 281L</td>
<td>and Physical Materials I Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 380</td>
<td>Thermodynamics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 381</td>
<td>Physical Materials II</td>
<td>3</td>
</tr>
<tr>
<td>MSE 382</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 485</td>
<td>Characterization of Materials</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 465L</td>
<td>and Characterization of Materials Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Materials Engineering Electives

Select one of the following courses: 3-4

* MSE 413  Composite Materials
* MSE 430  Polymeric Materials & 430L and Polymeric Materials Laboratory
* MSE 464  Metals and Alloys & 464L and Metals and Alloys Laboratory
* MSE 470  Ceramic Materials

Total Hours: 23-24

Minor Requirements for Mechanical Engineering - Thermal Systems

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
</tr>
</tbody>
</table>

Required Engineering Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 210</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 220</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>ME 215</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 370</td>
<td>Kinematics and Dynamics of Machinery</td>
<td>3</td>
</tr>
<tr>
<td>ME 371</td>
<td>Machine Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Engineering Electives

Select two of the following courses: 6

* ME 484  Introduction to Finite Element Method
* ME 475  Mechanical Vibrations
* MSE 401  Materials Processing

Total Hours: 22

Minor Requirements for Software Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
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</tbody>
</table>

Required Electrical Engineering Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 210</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>EE 233</td>
<td>Engineering Programming Methods</td>
<td>3</td>
</tr>
<tr>
<td>EE 333</td>
<td>Engineering Programming Using Objects</td>
<td>3</td>
</tr>
<tr>
<td>EE 337</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>EE 432</td>
<td>Introduction to Computer Networking</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Engineering Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 150</td>
<td>Computer Methods in Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Electrical Engineering Electives

Select one of the following courses: 3
Business Administration Minor for Non-Business Majors

Engineering students may choose to pursue a Minor in Business Administration. This minor combined with an undergraduate engineering degree and co-op/internship experience provides a powerful and highly sought-after combination in today’s competitive economy. Engineering students interested in exploring the Business Administration Minor should contact the academic advisor in the School of Engineering (205) 934-8410.

Honors in Engineering

Honors Programs are offered by all undergraduate degree programs in the School of Engineering.

- Biomedical Engineering
- Civil Engineering
- Electrical Engineering
- Materials Engineering
- Mechanical Engineering

Purpose

The honors programs are intended to enrich educational opportunities for talented students in the School of Engineering.

Eligibility

Students who have earned a GPA of at least 3.25 (3.75 for BME); have completed MA 227 Calculus III or EGR 265 Math Tools for Engineering Problem Solving; and receive departmental endorsement are invited to participate in an engineering honors program. Invitations are extended by the Dean's office during spring semester of each year.

Community college transfer students who have earned a GPA of at least 3.50 (3.75 for BME); have completed MA 227 Calculus III; and have been elected to Phi Theta Kappa are also eligible.

Requirements

Honors programs require nine credit hours of honors coursework.

- Students enroll in EGR 301 Honors Research I, a one-hour course, no later than junior year. Students participating in the Science and Technology Honors program are not required to take EGR 301.
- Students enroll in two one-hour seminars which can be taken at any time in their course of study.
- Students complete six hours of credit in departmental honors research.
- Individual programs may vary in the way credit is awarded. For information regarding departmental requirements, contact the departmental program director.

Benefits

Students who complete an engineering honors program will have earned nine credit hours in honors coursework. Honors research beyond the required six hours may be applied as graduate credit. Three credit hours of honors research may be applied as an undergraduate elective according to departmental policy. Students who complete an honors program in engineering with a minimum GPA of 3.0 will receive a bachelor’s degree “with Honors” in addition to any University honors designations.

Contact

For more information about Engineering Honors Programs, contact:

Dr. Alan W. Eberhardt • Associate Dean and Professor of Biomedical Engineering • School of Engineering • Birmingham, AL 35294-4440 • Telephone (205) 934-8410

Department of Biomedical Engineering

Chair: Timothy M. Wick

Biomedical engineering (BME) is the application of engineering principles and technology to the solution of problems in the life sciences and medicine. Graduates create and apply knowledge at the interface of life sciences and engineering for the benefit of society. The BME undergraduate program prepares graduates to be immediately productive and able to adapt to a rapidly changing environment. The curriculum includes basic engineering core courses, mathematics, calculus-based physics, biology and chemistry, fine arts, humanities, history, social and behavioral sciences, as well as biomedical engineering core courses and electives. The curriculum culminates in a capstone design experience where interdisciplinary teams apply knowledge to solve real-world engineering problems. A bachelor’s degree in BME from UAB provides a foundation in medical devices, biomedical implants, biomaterials, and biomedical instrumentation to compete in an increasingly technical medical field, as well as preparing students for graduate or professional school.

The Biomedical Engineering program is currently accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org

Freshmen with an ACT score of 28 or higher (or SAT equivalent) and a high school GPA of 3.20 or higher may be admitted directly to the Biomedical Engineering program. All other freshmen and transfer students who meet both the University requirements for admission and School of Engineering admission (as stated in the current UAB Undergraduate Catalog) and wish to major in engineering are admitted as pre-engineering students and could be designated as Pre-Biomedical Engineering.

In order to advance from pre-engineering to Biomedical Engineering, students must meet all of the following minimum requirements:

- Sophomore standing (completion of at least 32 hours)
- Completion (C or better) of MA 125 Calculus I and MA 126 Calculus II
- Completion (C or better) of two required science courses with appropriate labs
- Completion of EGR 110 and EGR 111 Introduction to Engineering I and II (or EGR 200)
- Completion of ME 102 Engineering Graphics
- An overall GPA of 3.20 and an institutional (UAB) GPA of 3.20

Students can transfer into Biomedical Engineering from other programs within UAB once the minimum requirements to advance stated above
have been met. Transfer students from other institutions (universities, colleges, junior colleges, community colleges) receive a Pre-Engineering designation for a minimum of one semester following admission to UAB, then are admitted to their chosen department upon completion of the minimum requirements listed above. Students admitted as degree-seeking post baccalaureate, however, will be considered on an individual basis.

BME students must maintain an institutional (UAB) GPA of at least 3.00. Students who do not meet this requirement will be put on BME probation for one term, during which time the student must raise their institutional GPA to at least 3.00. If at the end of the probation term, the institutional (UAB) GPA is not at least 3.00, the student will be reclassified as PEGR (Pre-General Engineering). To be re-admitted to the BME program, the student must have an institutional (UAB) GPA of at least 3.20 and make a formal application for readmission.

BME students must maintain an institutional (UAB) GPA of at least 3.00 and have completed at least 64 hours of course work applicable to their degree before they may register for 300-level and 400-level BME courses. BME students must also have an institutional (UAB) GPA of 3.00 or higher and have earned a grade of C or better in all BME courses attempted before enrolling in BME courses.

In addition to fulfilling course prerequisites, non-BME students (including pre-BME students and students seeking a BME minor) who wish to enroll in 300-level and 400-level BME courses must have an institutional (UAB) GPA of at least 3.00 as well as permission of the BME Undergraduate Advisor. Non-BME majors may not enroll in BME 423, BME 498, or BME 499. In addition a minimum overall GPA of 3.00 is required for all engineering course work applied to a BME minor. Transfer students (Pre-General Engineering). To be re-admitted to the BME program, the student must have an institutional (UAB) GPA of at least 3.20 and make a formal application for readmission.

**Vision**
To be an internationally recognized, research oriented Department of Biomedical Engineering: a top choice for undergraduate and graduate education.

**Mission**
To improve healthcare by making scientific discoveries, solving problems and advancing technology using quantitative methods; to prepare graduates to succeed in the evolving fields of biomedical engineering and biotechnology.

**Educational Objectives**
Graduates of the Biomedical Engineering undergraduate program will:

1. Gain admission to graduate or professional school, or employment in engineering and/or health related professions and
2. Pursue opportunities for professional growth, development, and service

### Lower Division Requirements For Biomedical Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 and General Chemistry I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

| CH 117 | General Chemistry II |
| & CH 118 | and General Chemistry II Laboratory |

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 123 Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 210 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BY 409 Principles of Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>EGR 265 Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 260 Introduction to Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 30

**Major Requirements for Biomedical Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Engineering</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>2</td>
</tr>
<tr>
<td>EGR 110 Introduction to Engineering I &amp; EGR 111 Introduction to Engineering II</td>
<td></td>
</tr>
<tr>
<td>EGR 200 Introduction to Engineering Design</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGR 150 Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 102 Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>MSE 280 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>EE 312 Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 215 Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Biomedical Engineering Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 210 Engineering in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BME 310 Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BME 312 Biocomputing</td>
<td>3</td>
</tr>
<tr>
<td>BME 313 Bioinstrumentation</td>
<td>3</td>
</tr>
<tr>
<td>BME 333 Biomechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>BME 340 Bioimaging</td>
<td>3</td>
</tr>
<tr>
<td>BME 350 Biological Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>BME 401 Undergraduate Biomedical Engineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BME 423 Living Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BME 498 Capstone Design I Product Development</td>
<td>3</td>
</tr>
<tr>
<td>BME 499 Capstone Design II</td>
<td>3</td>
</tr>
<tr>
<td>BME 499L Capstone Design II Lab</td>
<td>0</td>
</tr>
</tbody>
</table>

**Biomedical Engineering Electives**

Select six credit hours from the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 408 Biofluids</td>
<td></td>
</tr>
<tr>
<td>BME 417 Engineering Analysis</td>
<td></td>
</tr>
<tr>
<td>BME 420 Implant-Tissue Interactions</td>
<td></td>
</tr>
<tr>
<td>BME 435 Tissue Engineering</td>
<td></td>
</tr>
<tr>
<td>BME 443 Medical Image Processing</td>
<td></td>
</tr>
<tr>
<td>BME 445 Biomedical Optics</td>
<td></td>
</tr>
<tr>
<td>BME 446 Principles of MRI</td>
<td></td>
</tr>
<tr>
<td>BME 450 Computational Neuroscience</td>
<td></td>
</tr>
<tr>
<td>BME 461 Bioelectric Phenomena</td>
<td></td>
</tr>
<tr>
<td>BME 471 Continuum Mechanics of Solids</td>
<td></td>
</tr>
<tr>
<td>BME 480 Biomolecular Modeling</td>
<td></td>
</tr>
<tr>
<td>BME 490 Special Topics in Biomedical Engineering</td>
<td></td>
</tr>
<tr>
<td>BME 491 Individual Study in Biomedical Engineering</td>
<td></td>
</tr>
<tr>
<td>BME 494 Honors Research I</td>
<td>1</td>
</tr>
</tbody>
</table>

**Engineering/Math/Science Electives**

### General Chemistry Requirement

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Hours | 30 |
Select six credit hours from the following or from the list of Biomedical Engineering electives above.  

- CE 337: Hydraulics  
- CE 345: Transportation Engineering  
- CE 360: Structural Analysis  
- CE 395: Engineering Economics  
- CE 420: Advanced Mechanics  
- CE 433: Solid and Hazardous Wastes Management  
- ME 360: Introduction to Mechatronic Systems Engineering  
- ME 370: Kinematics and Dynamics of Machinery  
- ME 371: Machine Design  
- ME 464: Advanced Mechanics  
- ME 433: Solid and Hazardous Wastes Management  
- MSE 281: Physical Materials I and Physical Materials I Laboratory  
- MSE 380: Thermodynamics of Materials  
- MSE 401: Materials Processing  
- MSE 430: Polymeric Materials  
- BY 271 & 271L: Biology of Microorganisms and Biology of Microorganisms Laboratory  
- BY 280: Biology of Aging  
- BY 311: Molecular Genetics  
- BY 330: Cell Biology  
- BY 362: Neurobiology  
- CH 235: Organic Chemistry I  
- CH 237: Organic Chemistry II  
- CH 355: Quantitative Analysis  
- CH 460: Fundamentals of Biochemistry  
- MA 313: Patterns, Functions and Algebraic Reasoning  
- MA 360: Scientific Programming  
- MA 361: Mathematical Modeling  
- MA 453: Transforms  
- MA 485: Probability  
- PH 475: Introduction to Biophysics I  
- PH 487: Nanoscale Science and Applications  

Total Hours: 62

1. Student must be enrolled in BME Honors Program.
2. With departmental approval. At most 3 hours of BME 494 or BME 491 may be used for elective credit.
3. Other courses may be selected as electives, but must be approved by a BME faculty advisor.

Concentration in Biomechanics

Students seeking the degree of BSBBME may add a concentration in Biomechanics by appropriate selection of their Mathematics/Science/Engineering Electives (3 credit hours), Engineering Elective (3 credit hours), and BME Electives (6 credit hours).

Concentration in Biomechanics

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 408: Biofluids</td>
<td>3</td>
</tr>
<tr>
<td>BME 417: Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BME 471: Continuum Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>ME 464: Introduction to Finite Element Method</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12

Concentration in Biomaterials and Tissue Engineering

Students seeking the degree of BSBBME may add a concentration in Biomaterials/Tissue Engineering by appropriate selection of their Mathematics/Science/Engineering Elective (3 credit hours), Engineering Elective (3 credit hours), and BME Electives (6 credit hours).

Concentration in Biomaterials/Tissue Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 420: Implant-Tissue Interactions</td>
<td>3</td>
</tr>
<tr>
<td>BME 435: Tissue Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BME 281: Physical Materials I</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Courses

<table>
<thead>
<tr>
<th>Elective Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 311: Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BY 330: Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BY 431: Principles of DNA Technology</td>
<td></td>
</tr>
<tr>
<td>ME 381: Physical Materials II</td>
<td></td>
</tr>
<tr>
<td>ME 382: Mechanical Behavior of Materials</td>
<td></td>
</tr>
<tr>
<td>ME 401: Materials Processing</td>
<td></td>
</tr>
<tr>
<td>ME 408: Nanomaterials</td>
<td></td>
</tr>
<tr>
<td>MSE 413: Composite Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 430: Polymeric Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 464: Metals and Alloys</td>
<td></td>
</tr>
<tr>
<td>MSE 470: Ceramic Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 484: Electronic, Magnetic, and Thermal Prop of Materials</td>
<td></td>
</tr>
<tr>
<td>PH 487: Nanoscale Science and Applications</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 13

Please refer to the School of Engineering Overview for School policies related to admission, academic progress, reasonable progress toward degree, and graduation.

Curriculum for the Bachelor of Science in Biomedical Engineering (B.S.B.M.E.)

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; CH 116</td>
<td>4</td>
<td>BY 123</td>
<td>4</td>
</tr>
<tr>
<td>EGR 110</td>
<td>1</td>
<td>CH 117 &amp; CH 118</td>
<td>4</td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EGR 111</td>
<td>1</td>
</tr>
<tr>
<td>MA 125</td>
<td>4</td>
<td>EH 102</td>
<td>3</td>
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<tr>
<td>ME 102</td>
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<td>MA 126</td>
<td>4</td>
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<tr>
<td></td>
<td>14</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 210</td>
<td>3</td>
<td>EGR 150</td>
<td>3</td>
</tr>
<tr>
<td>EGR 265</td>
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<td>BME 210</td>
<td>3</td>
</tr>
<tr>
<td>PH 221</td>
<td>4</td>
<td>CE 210</td>
<td>3</td>
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<tr>
<td>&amp; 221L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 260</td>
<td>3</td>
<td>EE 312</td>
<td>3</td>
</tr>
<tr>
<td>MSE 280</td>
<td>3</td>
<td>PH 222 &amp; 222L</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>
The Civil, Construction, and Environmental Engineering Department has developed the following educational objectives for graduates of the Civil Engineering program. Three to six years after graduation, graduates who choose to practice in the Civil Engineering field should:

- Achieve a level of technical competency that allows them to advance in engineering practice and/or research.
- Pursue lifelong learning, such as graduate study and other professional education, and professional licensure.
- Engage in service to the profession through involvement in professional societies, community activities, and educational outreach.

**Experiential Learning**

The Civil, Construction, and Environmental Engineering Department strongly encourages students to participate in experiential learning opportunities; such as, industry co-ops, engineering internships, and research with department faculty. These programs greatly enhance a student’s education and provide the real-world experience employers look for after graduation. The School of Engineering has a dedicated staff member to assist students in finding and applying to these programs and the Civil, Construction, and Environmental Engineering Department will work with students to tailor programs of study that will allow them to participate in these programs while completing their degrees in a timely manner.

**Lower Division Requirements For Civil Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Chemistry Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>CH 115 &amp; CH 116</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry I and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 &amp; CH 118</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry II and General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>EE 312</td>
<td>3</td>
</tr>
<tr>
<td>Electrical Systems</td>
<td></td>
</tr>
</tbody>
</table>
EGR 110 Introduction to Engineering I & EGR 111 and Introduction to Engineering II or EGR 200 Introduction to Engineering Design
EGR 150 Computer Methods in Engineering
EGR 265 Math Tools for Engineering Problem Solving
EH 300 Engineering Communication
MA 126 Calculus II
ME 102 Engineering Graphics
ME 251 Introduction to Thermal Sciences

Total Hours 30

Major Requirements For Civil Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Engineering Courses</strong></td>
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</tr>
<tr>
<td>CE 200 Engineering Geology</td>
<td>2</td>
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<tr>
<td>CE 210 Statics</td>
<td>3</td>
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<tr>
<td>CE 220 Mechanics of Solids</td>
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<tr>
<td>CE 221 Mechanics of Solids Laboratory</td>
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</tr>
<tr>
<td>CE 222 Civil Engineering Materials Laboratory</td>
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</tr>
<tr>
<td>CE 230 Plane Surveying &amp; 230L Plane Surveying Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CE 236 Environmental Engineering and 236L Environmental Engineering Laboratory</td>
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</tr>
<tr>
<td>CE 332 Soil Engineering &amp; 332L Soil Engineering Laboratory</td>
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</tr>
<tr>
<td>CE 337 Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CE 344 Civil Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 345 Transportation Engineering</td>
<td>3</td>
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<tr>
<td>CE 360 Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CE 395 Engineering Economics</td>
<td>3</td>
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<tr>
<td>CE 430 Water Supply/Drainage Design &amp; 480</td>
<td>3</td>
</tr>
<tr>
<td>CE 450 Structural Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 455 Reinforced Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 497 Construction Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>CE 499 Capstone Design Project &amp; 499L FE Exam Review</td>
<td>3</td>
</tr>
<tr>
<td>ME 215 Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Civil Engineering Electives**

Select nine hours from Civil Engineering (CE) Courses at the 400-level or above.

- Construction Engineering Management Electives
  - CE 600 Sustainable Construction
  - CE 601 Construction Methods
  - CE 603 Constr Acct & Fin Mgmt
  - CE 604 International Construction Contracts and Law
  - CE 605 Project Management
  - CE 606 Advanced Project Management
  - CE 607 Engineering Entrepreneurship
  - CE 631 Environmental Law
  - CE 649 Engineering Liability
  - CE 658 Management for Structural Engineers
  - CE 692 CE Capstone Project

- Environmental Engineering Electives
  - CE 430 Water Supply/Drainage Design
  - CE 433 Solid and Hazardous Wastes Management
  - CE 434 Air Quality Modeling and Monitoring
  - CE 437 Environmental Experimental Design and Field Sampling
  - CE 480 Introduction to Water and Wastewater Treatment
  - CE 485 Engineering Hydrology

**Geotechnical Engineering Electives**
- CE 426 Foundation Engineering
- CE 442 Highway Materials and Construction

**Structural Engineering Electives**
- CE 420 Advanced Mechanics
- CE 426 Foundation Engineering
- CE 453 Design of Wood Structures
- CE 454 Design of Masonry Structures
- CE 456 Prestressed Concrete Design
- CE 457 Concrete Technology
- CE 460 Structural Mechanics
- CE 461 Introduction to the Finite Element Method
- CE 462 Advanced Structural Analysis
- CE 464 Structural Dynamics
- CE 467 Wind and Seismic Loads
- CE 468 Bridge Engineering

**Transportation Engineering Electives**
- CE 442 Highway Materials and Construction
- CE 443 Pavement Design and Construction
- CE 457 Concrete Technology

Total Hours 62

1 Either of these courses will fulfill required undergraduate course.

Concentration in Sustainable Engineering Design and Construction

Students seeking the degree of BSCE may add a concentration in Sustainable Engineering and Construction by appropriate selection of their Civil Engineering Electives (400-Level) courses (9 credit hours total).

Concentration in Sustainable Engineering Design and Construction

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three of the following courses:</td>
<td>9</td>
</tr>
<tr>
<td>CE 531 Energy Resources</td>
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<tr>
<td>CE 533 Solid and Hazardous Wastes Management</td>
<td></td>
</tr>
<tr>
<td>CE 534 Air Quality Modeling and Monitoring</td>
<td></td>
</tr>
<tr>
<td>CE 600 Sustainable Construction</td>
<td></td>
</tr>
<tr>
<td>CE 601 Construction Methods</td>
<td></td>
</tr>
<tr>
<td>CE 608 Green Building Design</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 9

Please refer to the School of Engineering Overview for School policies related to admission, academic progress, reasonable progress toward degree, and graduation.
## Curriculum for the Bachelor of Science in Civil Engineering (B.S.C.E.)

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115</td>
<td>4 CH 117</td>
<td>4</td>
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</tr>
<tr>
<td>&amp; CH 116</td>
<td>&amp; CH 118</td>
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<tr>
<td>EGR 110(^1)</td>
<td>1 EGR 111(^1)</td>
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<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
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<tr>
<td>ME 102</td>
<td>2 MA 126</td>
<td>4</td>
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<tr>
<td>MA 125</td>
<td>4 PH 221 &amp; 221L</td>
<td>4</td>
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<tr>
<td></td>
<td>14</td>
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### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CE 210</td>
<td>3 CE 220</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PH 222 &amp; 222L</td>
<td>4 CE 236 &amp; 236L</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EGR 265(^2)</td>
<td>4 ME 215</td>
<td>3</td>
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<tr>
<td>Core Curriculum Area II: Humanities &amp; Fine Art(^3)</td>
<td>3 Core Curriculum Area II: Humanities &amp; Fine Art(^3)</td>
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<tr>
<td>EGR 150</td>
<td>3 CE 200 &amp; 221</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 221</td>
<td>1</td>
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<td></td>
<td>17</td>
<td>15</td>
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</table>

### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CE 230 &amp; 230L</td>
<td>3 CE 222</td>
<td>1</td>
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<tr>
<td>CE 337</td>
<td>3 EE 312</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CE 332 &amp; 332L</td>
<td>4 CE 360</td>
<td>3</td>
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</tr>
<tr>
<td>ME 251</td>
<td>2 CE 395</td>
<td>3</td>
<td></td>
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<tr>
<td>EH 300</td>
<td>2 Core Curriculum Area IV: Social &amp; Behavioral Science(^3)</td>
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<tr>
<td>CE 344</td>
<td>3 CE 345</td>
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<td></td>
<td>17</td>
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</table>

### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CE 480(^5)</td>
<td>3 CE 455</td>
<td>3</td>
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<tr>
<td>CE 497</td>
<td>3 CE 499 &amp; 499L</td>
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</tr>
<tr>
<td>CE 450</td>
<td>3 Civil Engineering Elective (400-Level)(^4)</td>
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<td>3 Core Curriculum Area IV: Social and Behavioral Science(^3)</td>
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<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science(^3)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Civil Engineering Elective (400-Level)(^4)</td>
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<tr>
<td></td>
<td>18</td>
<td>15</td>
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</tr>
</tbody>
</table>

Total credit hours: 128

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1. Transfer students may substitute EGR 200 for EGR 110/EGR 111
2. Students may also take MA 227 and MA 252 instead of EGR 265 for Engineering Problem Solving and a 400-level CE elective.

---

3. Please refer to the Core Curriculum as specified for Engineering majors.
4. Any 400-level UAB Civil Engineering courses not included as a requirement in Civil Engineering curriculum may be selected.
5. Students may choose to take either CE 480 offered in fall terms or CE 430 offered in spring terms.

The Department of Civil, Construction, and Environmental Engineering offers five Category A Certificates in the following areas:

- Certificate in Construction Engineering Management
- Certificate in Environmental Engineering
- Certificate in Geotechnical Engineering
- Certificate in Structural Engineering
- Certificate in Sustainable Engineering Management
- Certificate in Transportation Engineering

The requirements are as follows:

- Students must be admitted to the Department as either undergraduate or graduate students in Civil, Construction and Environmental Engineering.
- Certificates require a minimum of 15 semester hours consisting of one required undergraduate course (which will also count toward the BSCE degree at UAB) and four graduate level elective courses in the area of specialization.
- Graduate level elective courses taken may be applied to the certificate as well as a MSCE degree.
- One course, up to three semester hours, may be transferred from another institution. This may be the required course or one of the graduate level courses.
- Only one course listed with an asterisk (*) may be applied to a certificate. As an example, for the transportation certificate, students may apply either or .
- Courses taken from UA and UAH by IITS may be applied to certificates.
- Elective course may be taken at the 500, 600, or 700 level.

## Certificate in Construction Engineering Management

### Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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</table>

### Engineering Electives

Select four courses from the following:

<table>
<thead>
<tr>
<th>Required Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 497 Construction Engineering Management</td>
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</table>

### Engineering Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 600 Sustainable Construction</td>
<td></td>
</tr>
<tr>
<td>CE 601 Construction Methods</td>
<td></td>
</tr>
<tr>
<td>CE 602 Construction Contracting, Bidding, and Estimating</td>
<td></td>
</tr>
<tr>
<td>CE 603 Constr Acct &amp; Fin Mgmt</td>
<td></td>
</tr>
<tr>
<td>CE 604 International Construction Contracts and Law</td>
<td></td>
</tr>
<tr>
<td>CE 605 Project Management</td>
<td></td>
</tr>
<tr>
<td>CE 606 Advanced Project Management</td>
<td></td>
</tr>
<tr>
<td>CE 607 Engineering Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>CE 608 Green Building Design</td>
<td></td>
</tr>
<tr>
<td>CE 609 Adv Topics in Engineering Law</td>
<td></td>
</tr>
<tr>
<td>CE 631 Environmental Law</td>
<td></td>
</tr>
<tr>
<td>CE 649 Engineering Liability</td>
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</table>
## Certificate in Environmental Engineering

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Course</strong></td>
<td></td>
</tr>
<tr>
<td>CE 236</td>
<td>Environmental Engineering (or equivalent)</td>
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<tr>
<td><strong>Engineering Electives</strong></td>
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</tr>
<tr>
<td>Select four courses from the following:</td>
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</tr>
<tr>
<td>CE 530</td>
<td>Water Supply/Drainage Design</td>
</tr>
<tr>
<td>CE 533</td>
<td>Solid and Hazardous Wastes Management</td>
</tr>
<tr>
<td>CE 534</td>
<td>Air Quality Modeling and Monitoring</td>
</tr>
<tr>
<td>CE 537</td>
<td>Environmental Experimental Design and Field Sampling &amp; 537L Environmental Experimental Design and Field Sampling Lab</td>
</tr>
<tr>
<td>CE 544</td>
<td>Civil Egr Analysis II</td>
</tr>
<tr>
<td>CE 580</td>
<td>Introduction to Water and Wastewater Treatment</td>
</tr>
<tr>
<td>CE 631</td>
<td>Environmental Law</td>
</tr>
<tr>
<td>CE 632</td>
<td>Industrial Waste and Wastewater Treatment</td>
</tr>
<tr>
<td>CE 636</td>
<td>Stormwater Pollution Management</td>
</tr>
<tr>
<td>CE 638</td>
<td>Water and Wastewater Chemistry</td>
</tr>
<tr>
<td>CE 639</td>
<td>Sediment Sources and Controls</td>
</tr>
<tr>
<td>CE 640</td>
<td>Wastewater Treatment Engineering</td>
</tr>
<tr>
<td>CE 649</td>
<td>Engineering Liability</td>
</tr>
<tr>
<td>CE 658</td>
<td>Engineering Management</td>
</tr>
<tr>
<td>CE 681</td>
<td>Environmental Chemistry</td>
</tr>
<tr>
<td>CE 682</td>
<td>Water Treatment Engineering</td>
</tr>
<tr>
<td>CE 683</td>
<td>Water and Wastewater Treatment Processes Lab</td>
</tr>
<tr>
<td>CE 685</td>
<td>Engineering Hydrology</td>
</tr>
<tr>
<td>CE 686</td>
<td>Engineering Hydrogeology</td>
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<tr>
<td>CE 687</td>
<td>Stormwater Detention Pond Design</td>
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</table>

## Certificate in Geotechnical Engineering

<table>
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<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Course</strong></td>
<td></td>
</tr>
<tr>
<td>CE 332</td>
<td>Soil Engineering (or equivalent)</td>
</tr>
<tr>
<td><strong>Engineering Electives</strong></td>
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<td>Select courses from the following:</td>
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<tr>
<td>CE 526</td>
<td>Foundation Engineering</td>
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<tr>
<td>CE 544</td>
<td>Civil Egr Analysis II</td>
</tr>
<tr>
<td>CE 557</td>
<td>Concrete Technology</td>
</tr>
<tr>
<td>CE 649</td>
<td>Engineering Liability</td>
</tr>
<tr>
<td>CE 658</td>
<td>Engineering Management</td>
</tr>
<tr>
<td>CE 690</td>
<td>Special Topics in (Area)</td>
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</table>

## Certificate in Structural Engineering

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Course</strong></td>
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</tr>
<tr>
<td>CE 360</td>
<td>Structural Analysis</td>
</tr>
<tr>
<td><strong>Engineering Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select electives from the following list to earn 12 semester hours:</td>
<td>12</td>
</tr>
<tr>
<td>Structural Analysis Electives (Minimum 3 Hours)</td>
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</tr>
<tr>
<td>CE 516</td>
<td>Mechanical Vibrations</td>
</tr>
<tr>
<td>CE 520</td>
<td>Advanced Mechanics</td>
</tr>
<tr>
<td>CE 560</td>
<td>Structural Mechanics</td>
</tr>
<tr>
<td>CE 561</td>
<td>Introduction to the Finite Element Method</td>
</tr>
<tr>
<td>CE 562</td>
<td>Advanced Structural Analysis</td>
</tr>
<tr>
<td>CE 564</td>
<td>Structural Dynamics</td>
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<tr>
<td>CE 612</td>
<td>Theory of Elasticity</td>
</tr>
<tr>
<td>CE 615</td>
<td>Theory of Elastic Stability</td>
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<tr>
<td>CE 617</td>
<td>Theory of Plates and Shells</td>
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<tr>
<td>CE 662</td>
<td>Advanced Structural Analysis</td>
</tr>
<tr>
<td>CE 663</td>
<td>Finite Element Methods</td>
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</table>

## Certificate in Sustainable Engineering Management

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Course</strong></td>
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</tr>
<tr>
<td>CE 497</td>
<td>Construction Engineering Management</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<td></td>
</tr>
<tr>
<td>CE 600</td>
<td>Sustainable Construction</td>
</tr>
<tr>
<td>CE 602</td>
<td>Construction Contracting, Bidding, and Estimating</td>
</tr>
<tr>
<td>CE 608</td>
<td>Green Building Design</td>
</tr>
<tr>
<td>CE 604</td>
<td>International Construction Contracts and Law</td>
</tr>
<tr>
<td>CE 609</td>
<td>Adv Topics in Engineering Law</td>
</tr>
</tbody>
</table>

## Certificate in Transportation Engineering

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Course</strong></td>
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</tr>
<tr>
<td>CE 345</td>
<td>Transportation Engineering</td>
</tr>
<tr>
<td><strong>Engineering Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select courses from the following:</td>
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</tr>
<tr>
<td>CE 542</td>
<td>Hwy Materials and Construction</td>
</tr>
<tr>
<td>CE 543</td>
<td>Pavement Design &amp; Construction</td>
</tr>
<tr>
<td>CE 544</td>
<td>Civil Egr Analysis II</td>
</tr>
<tr>
<td>CE 557</td>
<td>Concrete Technology</td>
</tr>
<tr>
<td>CE 568</td>
<td>Bridge Engineering</td>
</tr>
<tr>
<td>CE 622</td>
<td>Traffic Flow Theory</td>
</tr>
<tr>
<td>CE 623</td>
<td>Non-Motorized Transportation Design and Planning</td>
</tr>
<tr>
<td>CE 624</td>
<td>Simulation Models for Transportation Applications</td>
</tr>
<tr>
<td>CE 625</td>
<td>Intelligent Transportation Systems</td>
</tr>
<tr>
<td>CE 646</td>
<td>Traffic Engineering Operations</td>
</tr>
<tr>
<td>CE 648</td>
<td>Urban and Transportation Planning</td>
</tr>
</tbody>
</table>
Department of Electrical and Computer Engineering

Chair: Murat M. Tanik, Ph.D.

The Electrical Engineering program in the Department of Electrical and Computer Engineering at UAB embodies a curriculum of 128 semester hours that is accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org. In addition to courses in pre-engineering, mathematics, calculus-based physics, chemistry, and the humanities/social sciences, students take a core of fundamental engineering coursework outside of electrical engineering, a core of courses in the breadth of electrical engineering, and electrical engineering elective courses. A bachelor’s degree in electrical engineering (B.S.E.E.) can provide the foundation that a student will need in any of the areas of electrical engineering, including advanced analog and digital electronics, microprocessor applications, biomedical instrumentation, digital computer systems, software systems, electric utility power systems, industrial power systems, digital control, industrial electronics, and machinery control.

Each student must complete a senior design team project that comprises three (EE 497 Team Design Project) or six (EE 498 Team Design Project I and EE 499 Team Design Project II) semester hours of coursework.

Vision

The Vision of the department is to be a nationally recognized Department of Electrical and Computer Engineering: a first choice for undergraduate and graduate education.

Mission

The Mission of the Department of Electrical and Computer Engineering is to prepare graduates to be immediately productive and able to adapt to a rapidly changing environment while also creating and applying knowledge for the benefit of Birmingham, the state, and beyond.

Electrical Engineering Program Objectives

The Electrical Engineering undergraduate program prepares graduates to

• Succeed in a career in electrical engineering or in further education.
• Approach problem solving with an engineering mind set.
• Grow professionally.

Lower Division Requirements For Electrical Engineering

Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
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<tr>
<td>CH 115 General Chemistry I &amp; CH 116 and General Chemistry I Laboratory</td>
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</tr>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>EGR 150 Computer Methods in Engineering</td>
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</tr>
</tbody>
</table>

Major Requirements For Electrical Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Electrical Engineering Courses</td>
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</tr>
<tr>
<td>EE 210 Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>EE 233 Engineering Programming Methods</td>
<td>3</td>
</tr>
<tr>
<td>EE 254 Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>EE 300 Engineering Problem Solving II</td>
<td>3</td>
</tr>
<tr>
<td>EE 316 Electrical Networks &amp; 316L and Electrical Networks Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 318 Methods of System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EE 333 Engineering Programming Using Objects</td>
<td>3</td>
</tr>
<tr>
<td>EE 337 Introduction to Microprocessors &amp; 337L and Introduction to Microprocessors Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 341 Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>EE 351 Electronics &amp; 351L and Electronics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 361 Machinery I &amp; 361L and Machinery I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 421 Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 426 Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 431 Analog Integrated Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EE 485 Engineering Operations</td>
<td>3</td>
</tr>
<tr>
<td>EE 497 Team Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>or EE 499 Team Design Project II</td>
<td></td>
</tr>
</tbody>
</table>

Electrical Engineering Electives

Select four courses from the following: 12

<table>
<thead>
<tr>
<th>Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 418 Wireless Communications</td>
<td></td>
</tr>
<tr>
<td>EE 423 Digital Signal Processing</td>
<td></td>
</tr>
<tr>
<td>EE 427 Industrial Control</td>
<td></td>
</tr>
<tr>
<td>EE 432 Introduction to Computer Networking</td>
<td></td>
</tr>
<tr>
<td>EE 433 Engineering Software Solutions</td>
<td></td>
</tr>
<tr>
<td>EE 437 Microprocessor Applications</td>
<td></td>
</tr>
<tr>
<td>EE 442 Computer Networking Protocols</td>
<td></td>
</tr>
<tr>
<td>EE 444 Real-Time Process &amp; Protocols</td>
<td></td>
</tr>
<tr>
<td>EE 447 Internet/Intranet Application Development</td>
<td></td>
</tr>
<tr>
<td>EE 448 Software Engineering Projects</td>
<td></td>
</tr>
<tr>
<td>EE 452 VHDL Digital Systems Design</td>
<td></td>
</tr>
<tr>
<td>EE 458 Medical Instrumentation</td>
<td></td>
</tr>
<tr>
<td>EE 461 Machinery II</td>
<td></td>
</tr>
<tr>
<td>EE 471 Power Systems I</td>
<td></td>
</tr>
<tr>
<td>EE 472 Power Systems II</td>
<td></td>
</tr>
<tr>
<td>EE 473 Protective Relaying of Power Systems</td>
<td></td>
</tr>
<tr>
<td>EE 490 Special Topics in (Area)</td>
<td></td>
</tr>
<tr>
<td>EE 491 Special Problems in (Area)</td>
<td></td>
</tr>
</tbody>
</table>
### EE 498: Team Design Project I (Only for students who take EE 499 to fulfill senior design requirement)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 421: Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 426: Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 431: Analog Integrated Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EE 497: Team Design Project</td>
<td>3</td>
</tr>
<tr>
<td>or EE 499: Team Design Project II</td>
<td></td>
</tr>
<tr>
<td>Twelve hours of EE 400-level electives</td>
<td>12</td>
</tr>
<tr>
<td>Total Hours</td>
<td>65</td>
</tr>
</tbody>
</table>

Please refer to the School of Engineering Overview for School policies related to admission, academic progress, reasonable progress toward degree, and graduation.

### Department of Electrical and Computer Engineering Residency Requirement

Students are required to take the following at UAB:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 421: Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 426: Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 431: Analog Integrated Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EE 497: Team Design Project</td>
<td>3</td>
</tr>
<tr>
<td>or EE 499: Team Design Project II</td>
<td></td>
</tr>
<tr>
<td>Twelve hours of EE 400-level electives</td>
<td>12</td>
</tr>
<tr>
<td>Total Hours</td>
<td>25</td>
</tr>
</tbody>
</table>

### Curriculum for the Bachelor of Science in Electrical Engineering (B.S.E.E.)

#### Freshman

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; CH 116</td>
<td></td>
</tr>
<tr>
<td>EE 210</td>
<td>3</td>
</tr>
<tr>
<td>EGR 111&lt;sup&gt;1&lt;/sup&gt;</td>
<td>1</td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
</tr>
<tr>
<td>MA 125</td>
<td>4</td>
</tr>
<tr>
<td>ME 102</td>
<td>4</td>
</tr>
<tr>
<td>EGR 150</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>14</td>
</tr>
<tr>
<td>Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 312</td>
<td>3</td>
</tr>
<tr>
<td>EGR 265&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>CE 210</td>
<td>3</td>
</tr>
<tr>
<td>PH 222 &amp; 222L</td>
<td>2</td>
</tr>
<tr>
<td>Core Curriculum Area II or IV&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II or IV&lt;sup&gt;3&lt;/sup&gt;</td>
<td>17</td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 318</td>
<td>3</td>
</tr>
<tr>
<td>EE 333</td>
<td>4</td>
</tr>
<tr>
<td>EE 351 &amp; 351L</td>
<td>4</td>
</tr>
<tr>
<td>EE 485</td>
<td>3</td>
</tr>
</tbody>
</table>

### Department of Materials Science and Engineering

**Chair:** J. Barry Andrews  
**Associate Chair:** Uday K. Vaidya  
**Undergraduate Program Director:** Derrick R. Dean

Materials engineering involves the development, production, modification, and application of engineering materials to meet the specific needs of society. It is based on an understanding of the structures and forces that control the engineering properties of metals, ceramics, polymers, and composites. Students learn how to control the properties of materials, how to select the optimum material and predict its behavior under various environmental and service conditions, and how to alter this behavior through materials design, research, and development. Materials Engineers are employed in every major industry, including aerospace, chemical, automotive, metals casting, biomedical, and microelectronics.

The materials engineering program at UAB has a curriculum of 128 semester credit hours that has been continuously accredited since 1971 by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org. In addition to courses in mathematics, calculus-based physics, chemistry, and the humanities/social sciences, students take a core of fundamental engineering course work and a sequence of materials engineering courses. The required materials engineering courses address ceramics, polymers, composite materials, and metals. They emphasize the relationships among properties, structure, processing, and performance. Materials engineering elective courses are also offered to introduce students to leading-edge materials engineering topics. In addition to the general materials engineering program, students can specialize in either Biomaterials, Polymer Matrix Composites or Metallurgy by proper selection of their electives (see Concentrations).

The curriculum prepares graduates to directly enter the professional practice of materials science and engineering, to pursue graduate studies in materials science and engineering, or enter a professional school,
such as medicine or dentistry. The department has very active research programs in metal casting and composite materials.

The department also offers courses of study leading to the Master of Science and Doctor of Philosophy degrees in materials engineering. These programs are described in the UAB Graduate School Catalog.

**Vision**

The Vision of the Department of Materials Science and Engineering is to be an internationally recognized research-oriented department – a first choice for undergraduate and graduate education.

**Mission**

The Mission of the Department of Materials Science and Engineering is to excel in research for the benefit of society while educating students at all levels to be immediately productive.

**Educational Objectives**

Our Materials Engineering undergraduate program will produce functioning professionals who:

- Advance in materials engineering or related professional positions.
- Continue to develop intellectually and professionally.

**Lower Division Requirements For Materials Engineering**

The following requirements are in addition to the School of Engineering core requirements.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118 General Chemistry II Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

**Required Courses**

- CE 210 Statics 3
- CE 220 Mechanics of Solids 3
- CE 344 Civil Engineering Analysis I 3
- EE 312 Electrical Systems 3
- EGR 110 Introduction to Engineering I 2
- & EGR 111 Introduction to Engineering II or EGR 200 Introduction to Engineering Design 2
- EGR 150 Computer Methods in Engineering 3
- EGR 265 Math Tools for Engineering Problem Solving 4
- MA 126 Calculus II 4
- ME 102 Engineering Graphics 2
- ME 251 Introduction to Thermal Sciences 2

**Total Hours** 37

**Major Requirements For Materials Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 280</td>
<td>3</td>
</tr>
<tr>
<td>MSE 281</td>
<td>4</td>
</tr>
<tr>
<td>MSE 281L</td>
<td>4</td>
</tr>
<tr>
<td>MSE 380</td>
<td>3</td>
</tr>
<tr>
<td>MSE 381</td>
<td>3</td>
</tr>
<tr>
<td>MSE 382</td>
<td>3</td>
</tr>
<tr>
<td>MSE 401</td>
<td>3</td>
</tr>
<tr>
<td>MSE 413</td>
<td>3</td>
</tr>
<tr>
<td>MSE 430</td>
<td>3</td>
</tr>
<tr>
<td>MSE 464</td>
<td>4</td>
</tr>
<tr>
<td>MSE 465</td>
<td>4</td>
</tr>
<tr>
<td>MSE 470</td>
<td>4</td>
</tr>
<tr>
<td>MSE 496</td>
<td>1</td>
</tr>
<tr>
<td>MSE 498</td>
<td>2</td>
</tr>
<tr>
<td>MSE 499</td>
<td>3</td>
</tr>
</tbody>
</table>

**Materials Engineering Elective**

Choose three hours of Materials Science and Engineering (MSE) courses.

- MSE 402 Frontiers of Materials
- MSE 405 Frontiers of Automotive Materials
- MSE 407 Interpretation of Microstructure
- MSE 408 Nanomaterials
- MSE 409 Principles of Metal Casting
- & MSE 409L and Principles of Metal Casting Laboratory
- MSE 433 Nondestructive Evaluation of Materials
- MSE 484 Electronic, Magnetic, and Thermal Prop of Materials
- MSE 490 Special Topics in (Area) (minimum of 3 hours)
- MSE 491 Individual Study in (Area) (minimum of 3 hours)

Completion of Departmental Honors Program satisfies three credits of either a Materials Engineering Elective or an Engineering/Mathematics/Science Elective.

**Science/Mathematics Elective**

Choose three hours of Science/Mathematics courses

- Any Biology (BY) courses numbered BY 115 and above.
- Any Chemistry (CH) courses at the CH 200 level or above
- Any Physics (PH) courses above PH 222
- MA 260 Introduction to Linear Algebra
- MA 360 Scientific Programming
- MA 361 Mathematical Modeling
- Any Mathematics (MA) courses MA 434 and above

**Engineering/Mathematics/Science Electives**

Select six hours from MSE, other engineering, BY, MA, CH, or PH.

- Any Biology (BY) courses BY 115 or above not already taken as a major requirement.
- Any Chemistry (CH) courses at CH 200 level or above not already taken as a major requirement.
- Any Physics (PH) courses above PH 222
- MA 260 Introduction to Linear Algebra
- MA 360 Scientific Programming
- MA 361 Mathematical Modeling
- Any Mathematics (MA) courses MA 434 and above.

Any engineering course not required in the major except CE 120, EE 305, EGR 125, EGR 301, EGR 499, ME 101, ME 241, ME 301, ME 302, or MSE 350. Completion of Departmental Honors Program satisfies three credits of an Engineering/Mathematics/Science Elective.

**Total Hours** 55
Concentration in Biomaterials

Students seeking the degree of BSMtE may add a concentration in Biomaterials by appropriate selection of their MSE Elective and Science/Mathematics/Engineering Electives (9 credit hours total).

Concentration in Biomaterials

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 311</td>
<td>3</td>
</tr>
<tr>
<td>BME 435</td>
<td>3</td>
</tr>
<tr>
<td>BME 420</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Concentration in Metallurgy

Students seeking the degree of BSMtE may add a concentration in Metallurgy by appropriate selection of their MSE Elective and Science/Mathematics/Engineering Electives (9 credit hours total).

Concentration in Metallurgy

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elective Courses</strong></td>
<td></td>
</tr>
<tr>
<td>ME 476</td>
<td>1</td>
</tr>
<tr>
<td>MSE 407</td>
<td>1</td>
</tr>
<tr>
<td>MSE 433</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Concentration in Polymer Matrix Composites

Students seeking the degree of BSMtE may add a concentration of Polymer Matrix Composites by appropriate selection of their MSE Elective and Science/Mathematics/Engineering Electives (10 credit hours total). CH 235/CH 236 may be used as the Science/Mathematics Elective instead of one of the Science/Mathematics/Engineering Electives.

Concentration in Polymer Matrix Composites

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 235</td>
<td>3</td>
</tr>
<tr>
<td>CH 236</td>
<td>1</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<td></td>
</tr>
<tr>
<td>ME 476</td>
<td>1</td>
</tr>
<tr>
<td>MSE 408</td>
<td>1</td>
</tr>
<tr>
<td>MSE 433</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

Please refer to the School of Engineering Overview for School policies related to admission, academic progress, reasonable progress toward degree, and graduation.
Department of Mechanical Engineering

Chair: David L. Littlefield

Mechanical engineering is a broad-based discipline that embraces two major topic areas—mechanical systems and thermal systems. With an understanding of the phenomena associated with these topics, mechanical engineers conceive and design a wide variety of devices, machines, and systems to meet the needs and desires of a modern economy. Mechanical engineers also engage in other engineering functions such as applied research, development, and management. During the next decade and beyond, mechanical engineers will have a primary role in addressing the problems relating to manufacturing, productivity and safety in the workplace, supply and efficient utilization of energy, transportation, enhancement of the environment, and human rehabilitation.

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org). The Mechanical Engineering Program embodies a curriculum of 128 semester credit hours. In addition to courses in pre-engineering, mathematics, calculus-based physics, chemistry, humanities, and social sciences, the mechanical engineering curriculum also includes a core of fundamental engineering coursework and advanced courses in thermodynamics, fluid mechanics, heat transfer, mechanics of machinery, and mechanical design. Laboratory experiences are provided in each area to illustrate the application of theory in engineering practice. During the senior year, the curriculum provides for electives that allow specializations in the areas of mechanical systems or energy systems or for further exposure in both areas. With additional coursework, the mechanical engineering program can also be utilized as a pre-health curriculum.

Vision

To be a nationally and internationally recognized research-oriented mechanical engineering department—a first choice for undergraduate and graduate education.

Mission

To prepare students to be immediately productive and able to adapt to and lead in a rapidly changing environment and to create and apply knowledge for the benefit of society.

Program Educational Objectives

The Mechanical Engineering Undergraduate Program will prepare graduates to:

- Succeed in Engineering and/or related professional positions.
- Continue to develop professionally.

Lower Division Requirements For Mechanical Engineering

A C or better is required in any course that is a prerequisite to another course in the ME curriculum.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
<td></td>
</tr>
<tr>
<td>CH 115</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>&amp; CH 116</td>
<td>and General Chemistry I Laboratory</td>
</tr>
<tr>
<td>CH 117</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>EGR 150</td>
<td>Computer Methods in Engineering</td>
</tr>
<tr>
<td>CE 210</td>
<td>Statics</td>
</tr>
<tr>
<td>CE 220</td>
<td>Mechanics of Solids</td>
</tr>
<tr>
<td>CE 221</td>
<td>Mechanics of Solids Laboratory</td>
</tr>
<tr>
<td>CE 395</td>
<td>Engineering Economics</td>
</tr>
<tr>
<td>EE 312</td>
<td>Electrical Systems</td>
</tr>
<tr>
<td>EGR 265</td>
<td>Math Tools for Engineering Problem Solving</td>
</tr>
<tr>
<td>EGR 110</td>
<td>Introduction to Engineering I</td>
</tr>
<tr>
<td>&amp; EGR 111</td>
<td>Introduction to Engineering II</td>
</tr>
<tr>
<td>or EGR 200</td>
<td>Introduction to Engineering Design</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
</tr>
<tr>
<td>ME 102</td>
<td>Engineering Graphics</td>
</tr>
<tr>
<td>ME 215</td>
<td>Dynamics</td>
</tr>
<tr>
<td>MSE 280</td>
<td>Engineering Materials</td>
</tr>
<tr>
<td>Math/Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Course must be approved by ME Undergraduate Director.</td>
<td>3-4</td>
</tr>
<tr>
<td>MA 180</td>
<td>Introduction to Statistics</td>
</tr>
<tr>
<td>MA 360</td>
<td>Scientific Programming</td>
</tr>
<tr>
<td>MA 361</td>
<td>Mathematical Modeling</td>
</tr>
<tr>
<td>MA 444</td>
<td>Vector Analysis</td>
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<td>MA 445</td>
<td>Complex Analysis</td>
</tr>
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<td>MA 453</td>
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<tr>
<td>STH 301</td>
<td>Statistics and Design Overview</td>
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<tr>
<td>AST 101</td>
<td>Astronomy of the Universe</td>
</tr>
<tr>
<td>AST 102</td>
<td>Astronomy of Stellar Systems</td>
</tr>
<tr>
<td>AST 103</td>
<td>Astronomy of the Solar System</td>
</tr>
<tr>
<td>AST 105</td>
<td>Extraterrestrial Life</td>
</tr>
<tr>
<td>BY 101</td>
<td>Topics in Contemporary Biology</td>
</tr>
<tr>
<td>BY 123</td>
<td>Introductory Biology I</td>
</tr>
<tr>
<td>ENV 108</td>
<td>Human Population and the Earth’s Environment</td>
</tr>
<tr>
<td>ES 101</td>
<td>Physical Geology</td>
</tr>
</tbody>
</table>

Total Hours 47-48

Major Requirements For Mechanical Engineering

A C or better is required in any course that is a prerequisite to another course in the ME curriculum.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mechanical Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>ME 241</td>
<td>Thermodynamics I</td>
</tr>
<tr>
<td>ME 242</td>
<td>Thermodynamics II</td>
</tr>
<tr>
<td>ME 321</td>
<td>Introduction to Fluid Mechanics</td>
</tr>
<tr>
<td>ME 322</td>
<td>Introduction to Heat Transfer</td>
</tr>
<tr>
<td>ME 360</td>
<td>Introduction to Mechatronic Systems Engineering</td>
</tr>
</tbody>
</table>
The University of Alabama at Birmingham

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 361</td>
<td>Thermo-Fluids Systems</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 361L</td>
<td>and Thermo-Fluids Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>ME 364</td>
<td>Linear Algebra and Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>ME 370</td>
<td>Kinematics and Dynamics of Machinery</td>
<td>3</td>
</tr>
<tr>
<td>ME 371</td>
<td>Machine Design</td>
<td>4</td>
</tr>
<tr>
<td>MSE 401</td>
<td>Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>or ME 405</td>
<td>Manufacturing Processes</td>
<td></td>
</tr>
<tr>
<td>ME 461</td>
<td>Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 461L</td>
<td>and Mechanical Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>ME 498</td>
<td>Capstone Design Project I</td>
<td>2</td>
</tr>
<tr>
<td>ME 499</td>
<td>Capstone Design Project II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mechanical Engineering Electives**

Three Mechanical Engineering (ME) electives: one with computer-aided engineering content, one thermal fluids elective, and one mechanical systems elective.

**Computer Aided Engineering Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 421</td>
<td>Introduction to Computational Fluid Dynamics Basics</td>
<td></td>
</tr>
<tr>
<td>ME 464</td>
<td>Introduction to Finite Element Method</td>
<td></td>
</tr>
</tbody>
</table>

**Thermal Fluids Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 411</td>
<td>Intermediate Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>ME 421</td>
<td>Introduction to Computational Fluid Dynamics Basics</td>
<td></td>
</tr>
<tr>
<td>ME 445</td>
<td>Combustion</td>
<td></td>
</tr>
<tr>
<td>ME 448</td>
<td>Internal Combustion Engines</td>
<td></td>
</tr>
<tr>
<td>ME 449</td>
<td>Power Generation</td>
<td></td>
</tr>
<tr>
<td>ME 454</td>
<td>Heating, Ventilating and Air Conditioning</td>
<td></td>
</tr>
<tr>
<td>ME 455</td>
<td>Thermal-Fluid Systems Design</td>
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</tr>
</tbody>
</table>

**Mechanical Systems Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 430</td>
<td>Vehicular Dynamics</td>
<td></td>
</tr>
<tr>
<td>ME 464</td>
<td>Introduction to Finite Element Method</td>
<td></td>
</tr>
<tr>
<td>ME 475</td>
<td>Mechanical Vibrations</td>
<td></td>
</tr>
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</table>

**Total Hours**

48

Please refer to the School of Engineering Overview for School policies related to admission, academic progress, reasonable progress toward degree, and graduation.

**Curriculum for the Bachelor of Science in Mechanical Engineering**

**Freshman**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>EGR 110</td>
<td>1 EGR 150</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 EGR 111</td>
<td>1</td>
</tr>
<tr>
<td>MA 125</td>
<td>4 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>CH 115 &amp; CH 116</td>
<td>4 MA 126</td>
<td>4</td>
</tr>
<tr>
<td>ME 102</td>
<td>2 PH 221</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>&amp; 221L</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science</td>
<td>3</td>
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**Sophomore**

<table>
<thead>
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<tbody>
<tr>
<td>CE 210</td>
<td>3 ME 215</td>
<td>3</td>
</tr>
<tr>
<td>EGR 265</td>
<td>4 CE 220</td>
<td>3</td>
</tr>
<tr>
<td>ME 241</td>
<td>3 CE 221</td>
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**Junior**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>MSE 401 or ME 405</td>
<td>3 ME 499</td>
<td>3</td>
</tr>
<tr>
<td>ME 461 &amp; 461L</td>
<td>3 ME 361 &amp; 361L</td>
<td>3</td>
</tr>
<tr>
<td>ME 498</td>
<td>3 ME 371</td>
<td>4</td>
</tr>
<tr>
<td>MSE 280</td>
<td>3 EE 312</td>
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**Senior**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MSE 401 or ME 405</td>
<td>3 ME 499</td>
<td>3</td>
</tr>
<tr>
<td>ME 461 &amp; 461L</td>
<td>3 CE 395</td>
<td>3</td>
</tr>
<tr>
<td>ME 498</td>
<td>3 ME 371</td>
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<tr>
<td>MSE 280</td>
<td>3 EE 312</td>
<td>3</td>
</tr>
<tr>
<td>MSE 401 or ME 405</td>
<td>3 ME 499</td>
<td>3</td>
</tr>
<tr>
<td>ME 461 &amp; 461L</td>
<td>3 CE 395</td>
<td>3</td>
</tr>
<tr>
<td>ME 498</td>
<td>3 ME 371</td>
<td>4</td>
</tr>
<tr>
<td>MSE 280</td>
<td>3 EE 312</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credit hours: 128**

1 Transfer students may substitute EGR 200 for EGR 110/EGR 111
2 Please refer to the Core Curriculum as specified for Engineering majors.
3 Students may also take MA 227 and MA 252 instead of EGR 265 Math Tools for Engineering Problem Solving and approved Math/Science elective.
4 Course must be approved by ME Undergraduate Program Director.
5 Mechanical systems electives include: ME 430, ME 464, and ME 475
6 Thermal fluids electives include: ME 411, ME 421, ME 445, ME 448, ME 449, ME 454, and ME 455
7 Electives with computer-aided engineering content include: ME 421 and ME 464
School of Health Professions

Dean: Harold P. Jones, Ph.D.
Associate Dean: Donna J. Slovensky, Ph.D.

The School of Health Professions delivers educational programs to prepare health personnel who will improve the services in health care and the systems through which these services are provided. In keeping with the mission of the University of Alabama at Birmingham, the resources and programs of the school are dedicated to excellence in teaching, research, and scholarly activity and to service to the institution, the community, and the professions represented by programs of the school.

Degree options in the School of Health Professions include undergraduate, master’s, and doctoral programs sponsored by five academic departments – Clinical and Diagnostic Sciences, Health Services Administration, Nutrition, Occupational Therapy, and Physical Therapy. In addition, certificate options are available in some specialized areas.

The School of Health Professions provides the professional phase (upper division coursework) for the following programs leading to a Bachelor of Science degree: biomedical sciences, health care management, medical technology, and nuclear medicine technology. The pre-professional phase of these programs may be completed by taking the prescribed coursework at UAB or any other accredited university or college. All eligible undergraduate programs have been continuously accredited since their inception by the appropriate professional accrediting bodies.

At the graduate level, the School of Health Professions offers Doctor of Philosophy degree programs in administration/health services (offered jointly with the UAB School of Business), nutrition sciences, and rehabilitation sciences; Doctor of Science in administration/health services; and a Doctor of Physical Therapy; Master of Science degree programs in biotechnology, clinical laboratory sciences, nutrition sciences, genetic counseling, health administration, health informatics, occupational therapy, and physician assistant studies. Graduate certificates are also offered in dietetic internship, healthcare quality and safety, health focused patient/client management for physical and occupational therapists, and low vision rehabilitation.

The School of Health Professions is committed to the practice of ethical standards of conduct. School policies, procedures, and regulations reflect this commitment and are in compliance with those of the University of Alabama at Birmingham. To ensure continued practice of ethical standards, the administration and the standing committees of the school (Faculty Affairs, Academic Affairs) regularly review school policies and procedures. All research endeavors are in compliance with policies of the UAB Institutional Review Board.

SHP Admissions

Entrance requirements for the individual educational programs of SHP vary. Persons desiring admission to a particular program should consult the appropriate section of the University Catalogs for specific entrance requirements, application process, and program information. Students who attend an institution other than UAB are encouraged to seek academic advisement from the SHP Office of Student Success as early as possible to plan for completion of program prerequisites.

Application for admission to UAB to complete program entrance or pre-professional requirements at UAB may be made to the Office of Undergraduate Admissions. If you have not yet decided upon a specific health career or have not yet chosen a major, the Office of Undergraduate Admissions can provide general information about program entrance requirements. However, most professional curricula in the school include specific prerequisite coursework that should be considered in making choices about options within the core curriculum. Students are strongly encouraged to make early contact with academic advisors in the School of Health Professions to plan their course schedules to meet the professional phase of any SHP program.

The School of Health Professions welcomes applications from all individuals who are prepared for the programs offered. All applicants must offer acceptable evidence of ability and intent to meet the academic standards specified by the particular program into which admission is desired. In addition, certain immunizations are required prior to enrollment; see UAB Student Health and Insurance Programs and UAB Immunization Policy. Applicants are considered regardless of race, color, religion, sex, sexual orientation, national origin, disability unrelated to program performance, disabled veteran status, or Vietnam era veteran status (see UAB Equal Opportunity Policy). Persons who have not yet decided upon a specific health career may obtain information from the SHP Office of Student Success, School of Health Professions Building, Room 230, 1705 University Boulevard; telephone: (205) 934-4195.

SHP Mission, Vision, Values

The mission of the School of Health Professions is “To improve health care through teaching, research, and translation of discoveries into practice in partnership with the UAB community.” The School vision is, “To be recognized as the leading school of health professions – shaping the future of healthcare.” Fulfilling the mission requires faculty and staff to embrace the following organizational values:

- Accountability
- Collaboration/Cooperation
- Diversity
- Excellence
- Innovation/Creativity
- Integrity/Ethical behavior
- Open communication
- Professional behavior

SHP First Year Experience

All freshmen admitted to the university are required to complete a first year experience (FYE) course. The FYE sponsored by SHP, HRP 101 Experience the Univ Transition,is designed to ease the transition between high school and university experiences and to prepare students for success in health professions majors. The course is two semester hours credit, and is designed to be delivered in a seminar format. Students interact with faculty, advisors, and other students to learn academic skills and personal lifestyle management tactics to make their freshman experience positive and academically rewarding. Social interaction and engagement in the UAB community are key goals as well.

Core Curriculum

All SHP majors are required to comply with the UAB core curriculum for a baccalaureate degree. However, most professional curricula in the school include specific prerequisite coursework that should be considered in making choices about options within the core curriculum. Students are strongly encouraged to make early contact with academic advisors in the School of Health Professions to plan their course schedules to meet the dual requirements of the core curriculum and the requirements of their chosen major. The courses identified in Area V of the core curriculum...
(Elective and Pre-professional Credits) differ by major, and are subject to change as programs respond to changes in workforce requirements. Students should work closely with their academic advisors to plan their programs of study during the freshman and sophomore years.

**School-Wide Core / Capstone**

The School of Health Professions does not specify a common core for all programs. Students must comply with the UAB core curriculum and the degree requirements for their chosen major. All SHP programs include capstone experiences, either a supervised practicum, a didactic course, or a combination of both.

**University Requirements**

In order to receive a degree at UAB, a student must have a minimum 120 semester hours of acceptable credit.

**Interdisciplinary Majors / Minors**

Interdisciplinary majors are not offered by the School of Health Professions. Students may elect to pursue any minor available at UAB in addition to their major, but minor study is not required. Four minors are available in the School of Health Professions.

**New Minor in Nutrition**

*Approved August 3, 2012*

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>NTR 232 Lifecycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 320 Nutrition and the Consumer</td>
<td>3</td>
</tr>
<tr>
<td>NTR 330 Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 420 Nutritional Genetics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective**

Select one of the following suggested courses: * 3

- HE 222 Concepts of Health and Fitness 3
- PE 405 Nutrition and Physical Activity 3
- ANTH 319 Food and Culture 3

**Total Hours** 18

* Please see the Nutrition Sciences Department for approval of alternate electives.

**School of Health Professions Honors Program**

The School of Health Professions Honors Program provides opportunities for students in professional degree programs to develop leadership and research skills to prepare for careers in health care. Students participate in two semester credits of interdisciplinary seminars and four semester credits in honors projects under the direction of a faculty mentor. Projects may involve research, service learning, or leadership activities. The student’s project, whether scholarly, service, or leadership, is presented publicly in an appropriate professional forum. A limited number of students are accepted into the Honors Program each year following a June 1 application deadline. Admission criteria include a 3.25 GPA, recommendation by the program director of the student’s major, and a letter of support from their faculty mentor. Students who successfully complete the program graduate with School Honors.

**Clinical and Diagnostic Sciences**

The Department of Clinical and Diagnostic Sciences houses eight academic programs, including three at the undergraduate level including Medical Technology, Nuclear Medical Technology and Respiratory Therapy.

**School of Health Professions Honors Program**

The School of Health Professions Honors Program provides opportunities for students in professional degree programs to develop leadership and research skills to prepare for careers in health care. Students participate in two semester credits of interdisciplinary seminars and four semester credits in honors projects under the direction of a faculty mentor. Projects may involve research, service learning, or leadership activities. The student’s project, whether scholarly, service, or leadership, is presented publicly in an appropriate professional forum. A limited number of students are accepted into the Honors Program each year following a June 1 application deadline. Admission criteria include a 3.25 GPA, recommendation by the program director of the student’s major, and a letter of support from their faculty mentor. Students who successfully complete the program graduate with School Honors.

**Medical Technology**

The Faculty of the Medical Technology program is committed to service to the community and to providing high quality education to prepare students with a solid educational background and a set of skills translatable to a variety of laboratory settings including hospital laboratories, industry, research laboratories and many more. The Faculty, in its concern for the health and safety of the general public, is committed to ensuring that each student develops knowledge, skills and values essential to the appropriate role providing the basis for continuing intellectual and professional growth.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Program graduates are eligible to apply for the certification examination offered by the American Society of Clinical Pathology Board of Certification (ASCP-BOC).

**NAACLS**

5600 N River Road, Suite 720
Rosemont, IL 60018-5119
Phone: 847.939.3597
Fax: 773.714.8886
URL: http://www.naacls.org/

**ASCP Board of Certification**

33 West Monroe Street, Suite 1600
Chicago, IL 60603
Phone: 312.541.4999
Fax: 312.541.4998
Email: info@ascp.org ()
URL: http://www.ascp.org/

**Admission Requirements**

The student usually will have completed approximately 60 semester hours (or equivalent to two years) before applying to SHP for five semesters of professional courses. Acceptance is based upon the
student’s academic ability and aptitude for a career in laboratory sciences. The candidate is expected to satisfy the following requirements:

• Have a minimum cumulative grade point average of 2.3 (A=4.0).
• Have a minimum cumulative grade point average of 2.3 in Natural Sciences and Mathematics prerequisites in Area III and Area V, calculated on all hours attempted.
• If accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service.
• If accepted, a background check and drug screening will be required at program admission and prior to clinical placement.

Certified MLTs who have graduated from a NAACLS accredited program and who wish to obtain a baccalaureate degree in medical technology can apply to the Clinical Laboratory Sciences (CLS) Articulation Program. Through this program, students receive credit for approved MLT coursework toward a Bachelor of Science degree in medical technology from the School of Health Professions.

Application Procedure
Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:
• Completed UAB undergraduate application, and fee, if applicable. The online application can be found at UAB Application for Undergraduate Admission (https://www.uab.edu/students/undergraduate-admissions).
• Official transcripts from each college or university attended.

To the Medical Technology Program Office, School of Health Professions:
Completed application to the professional phase of the Medical Technology Program (form available online at https://www.uab.edu/shp/cds/academic/undergrad/mt/150-programs/82-mt-admissions).

NOTE: The Medical Technology Program will accept its final cohort of students for Fall 2014 entry.

Contact for additional information:
Department of Clinical and Diagnostic Sciences
Admissions Office
School of Health Professions Building Room 430
1705 University Boulevard
Birmingham, Alabama 35294-1212
Telephone: (205) 994-3209
E-mail: askCDS@uab.edu ()
Web address: www.uab.edu/mt

Major Requirements for Medical Technology
Grade and Residency Requirements
Minimum 2.3 GPA. All courses must be completed with a grade of "C" or better.

Required courses:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDS 400</td>
<td>Fundamentals of Phlebotomy and Body Fluid Collection</td>
<td>1</td>
</tr>
<tr>
<td>MT 400</td>
<td>Health and Safety Management</td>
<td>1</td>
</tr>
<tr>
<td>MT 403</td>
<td>Body Fluids</td>
<td>1</td>
</tr>
<tr>
<td>MT 404</td>
<td>Body Fluid Lab</td>
<td>1</td>
</tr>
<tr>
<td>MT 405</td>
<td>Laboratory Management</td>
<td>3</td>
</tr>
<tr>
<td>MT 406</td>
<td>Laboratory Techniques</td>
<td>2</td>
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<tr>
<td>MT 418</td>
<td>Immunology</td>
<td>4</td>
</tr>
<tr>
<td>MT 423</td>
<td>Clinical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MT 424</td>
<td>Clinical Microbiology Laboratory</td>
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</tr>
<tr>
<td>MT 426</td>
<td>Instrumentation and Automation</td>
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<td>MT 427</td>
<td>Instrumentation and Automation Laboratory</td>
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<tr>
<td>MT 428</td>
<td>Hematology I</td>
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<tr>
<td>MT 430</td>
<td>Immunohematology</td>
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<td>MT 431</td>
<td>Immunohematology Laboratory</td>
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<tr>
<td>MT 432</td>
<td>Hematology II</td>
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<tr>
<td>MT 438</td>
<td>Infectious Diseases</td>
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<tr>
<td>MT 439</td>
<td>Infectious Diseases Laboratory</td>
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</tr>
<tr>
<td>MT 442</td>
<td>Molecular Diagnostics</td>
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<tr>
<td>MT 443</td>
<td>Molecular Diagnostics Laboratory</td>
<td>2</td>
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<tr>
<td>MT 451</td>
<td>Clinical Chemistry</td>
<td>3</td>
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<tr>
<td>MT 452</td>
<td>Clinical Chemistry Laboratory</td>
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</tr>
<tr>
<td>MT 455</td>
<td>Research Principles</td>
<td>2</td>
</tr>
<tr>
<td>MT 460</td>
<td>Clinical Correlations</td>
<td>3</td>
</tr>
<tr>
<td>MT 470</td>
<td>Certification Review</td>
<td>1</td>
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<tr>
<td>MT 495</td>
<td>Clinical Practice</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Total Hours 56-67

Electives
Please see your academic advisor.

Additional Requirements
Prerequisites
CS 101 Computer Fundamentals; MA 180 or PY 214 Statistics, and the following courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 235</td>
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</tr>
<tr>
<td>CH 236</td>
<td>and Organic Chemistry I Laboratory 4</td>
</tr>
<tr>
<td>BY 123</td>
<td>Introductory Biology I 4</td>
</tr>
<tr>
<td>BY 261</td>
<td>Introduction to Microbiology 4</td>
</tr>
<tr>
<td>or BY 271</td>
<td>Biology of Microorganisms 4</td>
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<tr>
<td>BY 210</td>
<td>Genetics 3</td>
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</table>

Total Hours 15

Minor
No minor required.

General Electives
Students must take general electives to reach the 120 semester hour requirement.
### Typical Program
#### Professional Phase

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Core Curriculum Area IV: Social and Behavioral Sciences</th>
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<tbody>
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<td>MT 404</td>
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<td>MT 405</td>
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<td>MT 406</td>
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<td>MT 407</td>
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<td>MT 408</td>
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<td>MT 418</td>
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**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Core Curriculum Area IV: Social and Behavioral Sciences</th>
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<td>MT 455</td>
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<tr>
<td>MT 460</td>
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</table>

**Total credit hours: 52-63**

### Proposed Program of Study for a Major in Medical Technology

#### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Core Curriculum Area IV: Social and Behavioral Science</th>
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<tbody>
<tr>
<td>EH 101</td>
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<td>EH 102</td>
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<td>MA 105</td>
<td>3</td>
<td>MA 106</td>
<td>3</td>
<td>3</td>
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<td>HY 120</td>
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<td>EH 210</td>
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<td>3</td>
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<tr>
<td>HRP 101</td>
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<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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<td>12</td>
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#### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Core Curriculum Area IV: Social and Behavioral Science</th>
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<tbody>
<tr>
<td>CH 117</td>
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<td>CH 235</td>
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</tr>
<tr>
<td>&amp; CH 118</td>
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<td>CMST 101</td>
<td>3</td>
<td>MA 180</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BY 123</td>
<td>4</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>14</td>
<td>10</td>
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#### Junior

<table>
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<tr>
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<td>MT 428</td>
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<td>MT 403</td>
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<td>MT 439</td>
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<td>MT 418</td>
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</table>

**Total credit hours: 116-127**

1 A six semester hour sequence either in literature or history is required; if a second literature is chosen it will apply as 3 of the elective hours in Core Curriculum Area II: Humanities and Fine Arts; if a second history is chosen, it will apply as 3 of the elective hours in Core Curriculum Area IV: Social and Behavioral Sciences.

2 For the purposes of the Quality Enhancement Plan (QEP), MT 405 is designated as the Civic Responsibility course, MT 455 as the Quantitative Literacy course, MT 460 as the Writing course and MT 495 as the Capstone course.

### Nuclear Medicine Technology

**Program Director:** Bolus  
**Medical Director:** Bender

The SHP Nuclear Medicine Technology Program is the only program of its kind in Alabama. The nuclear medicine technologist (NMT) uses radioactive drugs to obtain information that will aid physicians in diagnosing disease and monitoring therapy. NMTs have direct patient contact and use a variety of radiation detection equipment and computers to acquire and process data. They also participate in quality control, preparation of radioactive drugs, and compliance with radioactive materials licensing requirements. The program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology. Program graduates are eligible to apply for the certification examination of the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiologic Technologists (ARRT).

### Admission Requirements

The student usually will have completed approximately 60 semester hours before transferring to SHP for five to six semesters of professional courses. Acceptance is based upon the student’s academic ability and aptitude for a career in nuclear medicine technology. The candidate is expected to satisfy the following requirements:

- Be accepted by UAB.
- Have a minimum cumulative overall grade point average of 2.5 (A=4.0).
- Have a minimum cumulative grade point average of 2.5 in Natural Sciences and Mathematics prerequisite courses in Area III and Area V (under special circumstances and with permission of the faculty, this requirement may be waived).
- Have a minimum grade of C in each prerequisite course.
- Complete a clinical observation usually arranged by the program.
- Complete a personal interview with the selection committee.
- If accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service.
• If accepted, a background check and drug screening will be required at admission and prior to clinical placement.

Application Procedure

Applications received in the NMT Program office by February 15 proceeding the expected term of enrollment for the professional phase are given first priority. Applications received after February 15 are considered on a space-available basis. Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:
• Completed UAB undergraduate application form, and application fee, if applicable. The online application can be found at UAB Application for Undergraduate Admission (https://www.uab.edu/students/undergraduate-admissions).
• Official transcripts from each college or university attended.

To the Nuclear Medicine Technology Program Office, School of Health Professions:
• Completed application to the professional phase of the Nuclear Medicine Technology Program (form available on-line or from the program office). https://www.uab.edu/shp/cds/academic/undergrad/nmtadmission
• Completed clinical tour form (form available from the program office).

NOTE: The Nuclear Medicine Technology Program will accept its final cohort of students for Fall 2014 entry.

Contact for additional information:
Department of Clinical and Diagnostic Sciences
Admissions Office
School of Health Professions Building, Room 430
1705 University Boulevard
Birmingham, Alabama 35294-1212
Telephone: (205) 934-3209
E-mail: askCDS@uab.edu
Web address: https://www.uab.edu/shp/cds/academic/undergrad/nmt

Major Requirements for Nuclear Medicine Technology

Grade and Residency Requirements
• 2.5 GPA minimum cumulative grade point average in all coursework.
• 2.5 GPA overall and in the math/science prerequisite courses in Area III and V.
• All courses completed with a grade of “C” or better in each prerequisite course.

Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS 330 Health Care Systems</td>
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</tr>
<tr>
<td>AHS 460 Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>NMT 400 Intro to Clinical Nuclear Medicine Technology</td>
<td>2</td>
</tr>
<tr>
<td>NMT 404 Patient Care</td>
<td>2</td>
</tr>
<tr>
<td>NMT 405 Cross-Sectional Anatomy</td>
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</tr>
<tr>
<td>NMT 410 Medical Radiation Physics</td>
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<tr>
<td>NMT 421 Instrumentation I</td>
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<td>&amp; 421L Instrumentation I Laboratory</td>
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Typical Program - Professional Phase

First Year

<table>
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<th>Hour</th>
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<th>Hour</th>
<th>Summer Term</th>
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<td>3 NMT 421L</td>
<td>3 NMT 405</td>
<td>3 NMT 405</td>
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<tr>
<td>NMT 400</td>
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<td>1 NMT 491</td>
<td>1 NMT 491</td>
<td>1 NMT 491</td>
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</tr>
<tr>
<td>NMT 404</td>
<td>2 NMT 443</td>
<td>1 NMT 492</td>
<td>1 NMT 492</td>
<td>1 NMT 492</td>
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</tr>
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<td>1 NMT 493</td>
<td>1 NMT 493</td>
<td>1 NMT 493</td>
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</tr>
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<td>NMT 431</td>
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<td>1 NMT 494</td>
<td>1 NMT 494</td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>First Term</th>
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<th>Second Term</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3 NMT 493</td>
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<tr>
<td>NMT 423</td>
<td>3 NMT 499</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NMT 460</td>
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</tr>
<tr>
<td>NMT 461</td>
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Electives

Requirements

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<th>Requirements</th>
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<tr>
<td>NMT 401</td>
<td>Introduction to MRI Clinic</td>
</tr>
<tr>
<td>NMT 433</td>
<td>Computed Tomography Procedures</td>
</tr>
<tr>
<td>NMT 424</td>
<td>Physics/Instrumentation of Nuclear Magnetic Resonance</td>
</tr>
<tr>
<td>NMT 434</td>
<td>MRI Scanning and Sequence</td>
</tr>
<tr>
<td>NMT 494</td>
<td>CT Clinical Practice</td>
</tr>
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<td>NMT 495</td>
<td>MRI Clinical Practice</td>
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Prerequisites

Requirements

<table>
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<tr>
<th>Requirements</th>
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<tbody>
<tr>
<td>AHS 350</td>
<td>Medical Terminology for Health Professionals</td>
</tr>
<tr>
<td>BY 115</td>
<td>Human Anatomy and Introductory Human Physiology</td>
</tr>
<tr>
<td>BY 216</td>
<td>Pathophysiology</td>
</tr>
<tr>
<td>or NMT 320</td>
<td>Human Pathophysiology</td>
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<tr>
<td>PH 201</td>
<td>College Physics I</td>
</tr>
<tr>
<td>&amp; PH 202</td>
<td>and College Physics II</td>
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<tr>
<td>or NMT 304</td>
<td>Physics for Technologists</td>
</tr>
<tr>
<td>MA 180</td>
<td>Introduction to Statistics</td>
</tr>
</tbody>
</table>
The undergraduate degree program in Health Care Management is fully certified by the Association of University Programs in Health Administration (AUPHA).

Although we encourage students to participate in the classroom whenever possible, the health care management course delivery formats offer flexibility through evening classes and online options, including online participation while the class is happening live on campus, or accessing a recorded version at a later time convenient for the student.

Admission options are based on the student’s previous academic work, current professional status, and personal interests. Curriculum tracks include Pre-Professional, Clinical Manager, Long Term Care Administrator, MSOT Fast Track, and General Manager. Students who plan to seek admission to graduate level health professions programs may apply to the Pre-Professional option. Prerequisites for admission to identified graduate programs can be incorporated into the program of study for this track in B.S. Health Care Management degree. The Clinical Manager option is restricted to individuals who are credentialed or licensed in a health professions discipline. The Long Term Care Administrator track prepares graduates to work in nursing homes and other long term care facilities. The MSOT Fast Track provides freshman year acceptance to the Master of Science in Occupational Therapy Program and includes articulation of coursework between the two degrees. All other students should consider the General Manager option.

Qualified UAB freshmen whose academic goal is the Master of Science in Occupational Therapy Program at UAB may apply for competitive admission to the HCM-OT Fast Track. Eligibility requirements include a high school GPA of 3.0 (A = 4.0), an ACT score of 24 or greater, and qualified for enrollment in EH 101 and MA 105 (or higher). Acceptance into the HCM programs is required for student admission to the Fast Track.

**Admission Requirements**

For all tracks other than the MSOT Fast Track, the candidate is expected to satisfy the following requirements:

- For the Clinical Manager option, be a graduate of a certificate and/or associate degree health professions program or the equivalent, including associate degree or diploma registered nursing program, and be licensed, registered, or certified in the health specialty (not required for the other tracks).
• For the Clinical Manager or General Manager options, have a minimum cumulative grade point average of 2.5 (A=4.0); for the Pre-Professional or Long Term Care Administrator options, have a minimum cumulative grade point average of 2.75 (A=4.0).

• Have a minimum grade of C in all previous professional coursework to be applied to the degree.

• Have a minimum grade of C in all core curriculum coursework before enrollment in 400 level major courses.

• If accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service.

• If accepted, a background check and drug screening will be required at admission and prior to clinical placement.

Application Procedure
Applications are accepted at any time, and students may be enrolled during any term. Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

• Completed UAB undergraduate application form, indicating SHP as the school, and application fee, if applicable https://idm.uab.edu/myuab/login?from=ugadmapp

• Official transcripts from each college or university attended.

The student should request an appointment with a program director/advisor prior to the term of initial enrollment. It is essential to have transcripts of previous coursework during the enrollment interview.

Contact for additional information:
Dr. Pam Paustian, Program Director
Susan Packa, Program Manager/Advisor

B.S. in Health Care Management # School of Health Professions# University of Alabama at Birmingham # Telephone: (205) 975-5173 # Email: packa@uab.edu (paustian@uab.edu) # Web address: http://www.uab.edu/hcm

Major Requirements For Health Care Management

Grade and Residency Requirements

• 2.5 G.P.A. required for the Clinical Manager and General Manager Tracks.

• 2.75 G.P.A. required for the Pre-Professional and Long Term Care Administrator Tracks.

• 3.0 GPA required for the MSOT Fast Track.

• Grade of B required in all prerequisite coursework for the MSOT Fast Track.

• Internship during final semester (additional elective required if 3 semester hour internship).

Requirements | Hours
--- | ---
Required Mathematics | 3
Required Courses | 32
AHS 318 | Law for Health Care Professionals
AHS 320 | Microcomputer Applications for Health Care Professionals
AHS 330 | Health Care Systems
AHS 350 | Medical Terminology for Health Professionals
AHS 360 | Statistics for Healthcare Managers
AHS 375 | Managerial Epidemiology
AHS 401 | Organizational Studies in Health Care
AHS 402 | Economics for Healthcare Managers
AHS 403 | Operations Management in Health Care Organizations
AHS 405 | Human Resources Management in Health Care Organizations
AHS 407 | Strategic Management in Health Care Organizations
AHS 411 | Bio-Psycho-Social Issues of Aging
AHS 415 | Ethics for the Health Professional
AHS 416 | Financial Management in Health Care Organizations
AHS 417 | Finance in Health Care Organizations
AHS 435 | Survey of Clinical and Administrative Information Systems
AHS 437 | Clinical and Administrative Information Systems
AHS 450 | Quality Management in Health Care
AHS 460 | Research Methods
AHS 480 | Health Care Policy and Reform
AHS 481 | Management Internship/SL
AHS 490 | Leadership Skills for Health Professionals

Electives | 3-6
AHS 302 | Principles of Management in Health Care
AHS 482 | Current Issues Seminar
HCM 550 | Healthcare Lean Six Sigma Green Belt Seminar
AHS 590 | Leadership Skills for Health Professionals

Total Hours | 72-75

1 Additional courses are required for the LTCA track. Please contact the HCM Program Academic Advisor.

Prerequisites Requirement

Requirements | Hours
--- | ---
AC 200 | Principles of Accounting I

280 School of Health Professions
Health Care Management Curriculum Track Requirements

The Health Care Management Program offers curriculum tracks in the following areas: general manager, clinical manager, pre professional, long-term care administrator, and MSOT Fast Track. It is imperative that students meet with the program manager/advisor to map out specific requirements within the selected track. The program manager/advisor will map out curriculum requirements with students within each track.

A minimum grade of C is required in each course in the BSHCM Professional Curriculum. A minimum of 120 semester hours are required for graduation, including at least 40 semester hours in courses at the 300-level or above. Courses are available online using distance education technology. No more than 14 semester hours of clinical education (clinical rotations or clinical practice) may be applied toward a baccalaureate degree.

Minor

Three minors are available in the areas of: Clinical Coding and Reimbursement, Health Care Management, and Health Information Management.

General Electives

Students may need to take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Health Care Management

<table>
<thead>
<tr>
<th>Track</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Hours</th>
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<td>HRP 101</td>
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<td>Senior</td>
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<td>AHS 460 or HCM 460</td>
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<td>AHS 480 or HCM 480</td>
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</tbody>
</table>

Minor in Clinical Coding and Reimbursement

Minor in Health Care Management

Minor in Health Information Management

Minor in Clinical Coding and Reimbursement

The minor in Clinical Coding and Reimbursement requires completion of 24 semester hours of course work, including 3 hours of a prerequisite course. Students must apply to the Health Care Management program for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

The Clinical Coding and Reimbursement minor requires completion of 21 semester hours of course work, 24 including prerequisite course. Students must contact the Health Care Management program office for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

Minor in Health Care Management

The minor in Health Care Management requires completion of 21 semester hours of course work, including 15 hours of health care management courses. Students must apply to the Health Care Management program for admission to the minor, and must have a
2.5 GPA to qualify. All courses must be completed with a grade of C or better.

### Minor Requirements for Health Care Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AHS 330 Health Care Systems</td>
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</tr>
<tr>
<td>AHS 401 Organizational Studies in Health Care</td>
<td>4</td>
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<tr>
<td>AHS 403 Operations Management in Health Care</td>
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</tr>
<tr>
<td>Organizations</td>
<td></td>
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<tr>
<td>AHS 405 Human Resources Management in Health Care</td>
<td>4</td>
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<tr>
<td>Organizations</td>
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<tr>
<td>AHS 407 Strategic Management in Health Care</td>
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<td>AHS 415 Ethics for the Health Professional</td>
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<td>Total Hours</td>
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### Minor in Health Information Management

The minor in Health Information Management requires completion of 21 semester hours of course work, including 3 hours of a prerequisite course. Students must apply to the Health Care Management program for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

The Health Information Management minor requires completion of 18 semester hours of course work, 21 including prerequisite course. Students must contact the Health Care Management program office for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AHS 318 Law for Health Care Professionals (or HCM 318)</td>
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</tr>
<tr>
<td>or LS 246 Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>AHS 330 Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>or HCM 330 Health Care Systems</td>
<td></td>
</tr>
<tr>
<td>AHS 425 Healthcare Reimbursement Methods</td>
<td>3</td>
</tr>
<tr>
<td>or HCM 425 Healthcare Reimbursement Methods</td>
<td></td>
</tr>
<tr>
<td>AHS 435 Survey of Clinical and Administrative Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or HCM 435 Clinical and Administrative Information Systems</td>
<td></td>
</tr>
<tr>
<td>HIM 418 Documentation Standards for Health Data</td>
<td>3</td>
</tr>
<tr>
<td>HIM 425 Epidemiology and Applied Statistics in Health Care Organizations</td>
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</tr>
<tr>
<td>HIM 458 Clinical Terminology and Vocabulary</td>
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</tr>
<tr>
<td>HIM 475 Electronic Health Records</td>
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</tr>
</tbody>
</table>

1 prerequisite course requirement
School of Nursing

Dean: Doreen C. Harper, PhD, RN, FAAN
Senior Associate Dean for Academic Affairs: Linda Moneyham, DNS, RN
Associate Dean for Clinical Affairs and Partnerships: Cynthia S. Selleck, DSN, ARNP
Associate Dean for Research and Scholarship: Karen Meneses, PhD, RN, FAAN

Mission of the School of Nursing

The University of Alabama at Birmingham School of Nursing, as part of a research university and academic health center, shapes patient-centered health care by preparing recognized nurse leaders who excel as clinicians, researchers, and educators in Alabama, nationally and internationally.

Approvals/Accreditation

The University of Alabama at Birmingham (UAB) is accredited by the Southern Association of Colleges and Schools (SACS). The School of Nursing is approved by the Alabama Board of Nursing and is accredited by the Commission on Collegiate Nursing Education (CCNE).

Bachelors in Nursing (BSN) Degree

Baccalaureate preparation in nursing is the basic educational level for entry into professional nursing practice. This foundational education includes both academic and professional nursing courses that provide a base for clinical competence and informed judgments about health and patient care in a variety of settings. These settings include, but are not limited to, home/community agencies, outpatient/ambulatory care, and hospital-based practice ranging from chronic to high acuity. Baccalaureate nursing education builds upon knowledge acquired from the humanities and biological, physical, social, and behavioral sciences. By engaging in state-of-the-art technologies, simulations, and other teaching strategies, the graduate is prepared to care for families and individuals of all ages. The integration of principles of nursing research and principles of leadership and management also assist the graduate to function as an informed member of an interdisciplinary health team. Graduates of the program are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) to become a registered nurse (RN).

BSN Admission for Traditional Students*

Admission decisions are competitive based on the applicant's overall academic record and criteria described below

Admission Criteria

- The minimum cumulative GPA and minimum foundation cumulative GPA for all traditional BSN applicants is 2.75 at the time of application (includes transfer students). Admission is competitive and is based on space available. A minimum cumulative GPA of 2.75 does not guarantee admission to the School of Nursing.
- Students are eligible to apply when they have successfully completed a minimum of 41 semester credit hours. Successful completion of all pre-nursing foundation courses with a “C” or above must be met prior to matriculation into the nursing program.

Students offered admission to the SON who are enrolled in pre-nursing coursework must make a “C” or better in every foundation course for the nursing major. The final minimum cumulative/overall Nursing Foundation Coursework GPA must be a 2.75 or greater on all coursework must be met prior to matriculation into the nursing program.

- Admission decisions are highly competitive and based on the applicant's academic record and application at the time of the application deadline. *All grades (UAB and other colleges/universities) from previous terms must be posted on applicant's UAB transcript by the application deadline.
- A resume, outlining health care interest/experience, campus/community involvement, leadership, employment, etc. will be due by the application deadline. Resumes should not be more than one page in length and should only include activities after graduation from high school.
- Applicants are strongly encouraged to provide proof of work/volunteer experience in a healthcare setting as part of the application process. The healthcare work is to be documented by
letters from a supervisor (on agency letterhead) and/or time sheets and must consist of a minimum of 60 hours of paid or volunteer work in a healthcare setting. Completion of a nursing skills course does not meet this criterion for BSN applicants.

- Applicants to the School of Nursing are strongly recommended to demonstrate a record of full-time study and a minimum number of course repeats/grade forgiveness options.

**Special Options for Traditional BSN Admission**

- UAB Nursing Scholars Program for Entering Freshmen is a special early admission option for academically qualified high school seniors who have an ACT score of 24 or above or a composite SAT score of 1130 (old), 1680 (new) and a minimum cumulative GPA of 3.2. This option insures admission to the nursing program as long as a minimum GPA of 3.2 is maintained in the BSN foundation courses and a minimum cumulative GPA of 3.0 is maintained. Students who apply for this program can only use 12 hours of dual enrollment coursework from high school.

**UAB High School Nurse Scholars**

http://www.uab.edu/nursing/home/student-information/honors-and-scholars-programs

**UAB Pre-Nursing Scholars**

http://www.uab.edu/nursing/home/student-information/honors-and-scholars-programs

**Prior to Enrollment for Upper Division Nursing Courses**

- CPR certification will be due prior to registration for upper division courses (listed are approved courses)
- American Red Cross' Professional Rescuer Course
- American Red Cross' Healthcare Provider Course (Course C or BLSC)
- Medical Clearance, a Background Check, and a Drug Screen are required prior to beginning class for all upper division nursing courses and must be maintained throughout the program until the student graduates. Failure to comply may result in administrative withdrawal from the program.

**Application Deadlines**

Fall and Spring admission dates listed at - https://www.uab.edu/nursing/home/student-information/acad-prog/application-deadlines

All transfer students must be admitted to the University one month prior to the School of Nursing application deadline.

Applicants will receive an admissions decision a minimum of 4 weeks after application for the semester for which they are applying.

Future updates on the BSN admission process will be posted on the School of Nursing website (www.uab.edu/nursing) and will be available from your Pre-Nursing Advisor. If you have any questions concerning these changes, please feel free to contact the School of Nursing Office of Student Affairs at http://www.uab.edu/nursing/home/student-information/contact-us.

Traditional Students are those students who seek to enter the Undergraduate BSN program and are not a RN.
Additional General Studies Courses

**Pre-application Credit Hour Requirement**
Successful completion of all core and pre-nursing requirements and a minimum of 41 semester hours are prerequisites for admission to the School of Nursing. Final coursework may be in progress.

Grade of C or greater required for all core, pre-nursing and major in nursing courses and a minimum of a 2.75 for the core, pre-nursing and major in nursing courses to be considered for application.

**Pre-application mandatory meeting with pre-nursing advisor**
In order to apply to the School of Nursing, all students must meet with their pre-nursing advisor to evaluate completion of all School of Nursing requirements for application and receive a Certificate of Advisement used to obtain an application for the School of Nursing.

**Freshman Year Experience**
Students entering UAB with less than 24 credit hours who plan to enter the nursing program are required by the University to take a 2 hour approved Freshman Year Experience course in order to graduate. This increases the total number of credit hours to 123 that is required for graduation from the BSN program for these students.

**BSN Course Requirements**

**BSN Foundation Courses**
Grades for these courses will be used to calculate the BSN Foundation grade point average used in the determination for admission to the BSN program; a minimum grade of C is required in each course.

- **Requirements**
  - BY 115 Human Anatomy
  - & 115L and Human Anatomy Laboratory
  - BY 116 Introductory Human Physiology
  - & 116L and Introductory Human Physiology Laboratory
  - BY 261 Introduction to Microbiology
  - & 261L and Introduction to Microbiology Laboratory
  - CH 105 Introductory Chemistry I
  - & CH 105L and Introductory Chemistry I Laboratory
  - CH 106 Introductory Chemistry II
  - & CH 106L and Introductory Chemistry II Laboratory
  - EH 101 English Composition I
  - EH 102 English Composition II
  - MA 105 Pre-Calculus Algebra
  - PY 212 Developmental Psychology
  - NTR 222 Nutrition and Health
  - MA 180 Introduction to Statistics
  - or PY 216 Elementary Statistical Methods

1. If a student takes microbiology at UAB, please contact your pre-nursing advisor for appropriate required course. Otherwise, a second science with lab may be substituted (excludes Astronomy and Geology).

**Additional General Studies Courses**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History 1</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>Elective, Core Curriculum Area II</td>
<td>3</td>
</tr>
<tr>
<td>Elective, Core Curriculum Area IV</td>
<td>3</td>
</tr>
<tr>
<td>NUR 100</td>
<td>2</td>
</tr>
</tbody>
</table>

NUR 100: Student Success in Nursing (or other approved Freshman Year Experience course.)

1. Student needs either a 6 hour sequence of history or literature.

**Professional Nursing Courses**
These courses are taught after admission into the School of Nursing.

**Fall/Spring admission**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 310</td>
<td>3</td>
</tr>
<tr>
<td>NUR 311L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 312L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 313L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 314</td>
<td>2</td>
</tr>
<tr>
<td>NUR 315</td>
<td>2</td>
</tr>
<tr>
<td>NUR 321L</td>
<td>1</td>
</tr>
<tr>
<td>NUR 322</td>
<td>3</td>
</tr>
<tr>
<td>NUR 323L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 324</td>
<td>2</td>
</tr>
<tr>
<td>NUR 326</td>
<td>3</td>
</tr>
<tr>
<td>NUR 327L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 334</td>
<td>2</td>
</tr>
<tr>
<td>NUR 336</td>
<td>2</td>
</tr>
<tr>
<td>NUR 388</td>
<td>3</td>
</tr>
<tr>
<td>NUR 389L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 392</td>
<td>4</td>
</tr>
<tr>
<td>NUR 393L</td>
<td>3</td>
</tr>
<tr>
<td>NUR 409</td>
<td>2</td>
</tr>
<tr>
<td>NUR 410</td>
<td>2</td>
</tr>
<tr>
<td>NUR 426</td>
<td>2</td>
</tr>
<tr>
<td>NUR 427L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 428</td>
<td>2</td>
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<tr>
<td>NUR 429L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 431L</td>
<td>1</td>
</tr>
<tr>
<td>NUR 447L</td>
<td>4</td>
</tr>
<tr>
<td>NUR 448</td>
<td>2</td>
</tr>
<tr>
<td>NUR 449</td>
<td>1</td>
</tr>
<tr>
<td>NUR 368</td>
<td>1</td>
</tr>
<tr>
<td>NUR 484</td>
<td>3</td>
</tr>
<tr>
<td>NUR 486</td>
<td>3</td>
</tr>
</tbody>
</table>

NUR 368: Honors Seminar I: Introduction in Nursing Scholarship and Informatics
NUR 484: Honors Seminar II: Service Learning Project Development/SL
NUR 486: Honors Seminar III: Project Implementation and Dissemination

Nursing Elective: 3
Second Degree BSN Students Course Requirements

- **Traditional Entry** [http://www.uab.edu/nursing/home/student-information/acad-prog/bsn](http://www.uab.edu/nursing/home/student-information/acad-prog/bsn)
- **Accelerated Entry** [http://www.uab.edu/nursing/home/student-information/acad-prog/amnp](http://www.uab.edu/nursing/home/student-information/acad-prog/amnp)

Individuals who have completed a previous undergraduate degree, outside the field of nursing, and who have met the UAB criteria for School of Nursing admissions, may be considered for admission to the School of Nursing at the University of Alabama at Birmingham (UAB) Bachelor of Science of Nursing (BSN) program or the Accelerated Master’s into Nursing Pathway (AMNP). Second-degree students seeking the BSN degree are admitted fall and spring terms. The AMNP program is a graduate level program, and results in a Master of Science in Nursing and admits in the spring term.

Second-degree applicant requirements

- Earned at least a bachelor’s degree in a major other than nursing at a regionally accredited institution.
- A pre-nursing foundation course GPA of at least 2.75 and an overall GPA of 2.75 OR A pre-nursing foundation course GPA of at least 2.75 and a GRE General Test score of: 293 (or 1000 on previous scale) on the Verbal and Quantitative sections and; 4 or better on the analytical writing skills portion.
- Submit all material, follow the same processes, and adhere to the same deadlines/requirements as all other undergraduate BSN applicants.
- Admission as a degree-seeking, pre-nursing student through the UAB Office of Undergraduate admissions. The on-line application for the UAB Office of Undergraduate Admissions is available at [https://sa.uab.edu/admissions/undergradapplication/](https://sa.uab.edu/admissions/undergradapplication/) along with contact information.
- Advisement with an assigned Pre-Nursing Advisor is a requirement for application to the School of Nursing.
- Once admitted as an undergraduate pre-nursing student to UAB, you will be notified through an offer of admission letter to contact your assigned Pre-Nursing Advisor at (205) 934-6135 for pre-nursing academic advisement.
- Second degree students are eligible for the Honors in Nursing Program.

The following prerequisite courses (32 credit hours) must be successfully completed (with a grade of C or greater) prior to the student being considered for admission to the undergraduate program in the School of Nursing:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CH 105 Introductory Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 106 and Introductory Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CH 107 Introductory Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 108 and Introductory Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MA 105 Pre-Calculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MA 110 Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MA 180 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>PY 216 Elementary Statistical Methods</td>
<td></td>
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<tr>
<td>QM 214 Quantitative Analysis I</td>
<td></td>
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<tr>
<td>JS 120 Introduction to Statistics</td>
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</tr>
</tbody>
</table>

Total Hours 32

1. If a student takes Microbiology at UAB, please contact your pre-nursing advisor for appropriate required course. Otherwise, a second science with lab may be substituted (excluding Geology and Astronomy).

Second-degree applicants must submit all material, follow the same processes and adhere to the same deadlines and requirements as all other undergraduate BSN applicants. The upper-division Nursing course requirements (62 credit hours) and the length of the program (five semesters) for second-degree applicants/students are the same as for the basic BSN applicants/students.

For information related to specific programs of study please refer to the School of Nursing catalog.

**Proposed Program of Study for a Major in Nursing**

Students may deviate from this curriculum plan only with the permission of the BSN Program Coordinator/Honors Program Coordinator.

Students entering UAB with less than 24 credit hours who plan to enter the nursing program are required to take a 2 hour approved Freshman Year Experience course in order to graduate.

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td>BY 116</td>
<td>4</td>
</tr>
<tr>
<td>MA 180 or PY 216</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td>E 101</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>13</td>
</tr>
<tr>
<td><strong>Sophomore</strong></td>
<td></td>
</tr>
<tr>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td>BY 261</td>
<td>4</td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td>PY 212</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td>NUR 310</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td>NUR 312L</td>
<td>2</td>
</tr>
<tr>
<td><strong>Hautkummer Term</strong></td>
<td></td>
</tr>
<tr>
<td>NUR 313L</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>
Students who complete requirements for the UAB Honors Program and the UAB Honors Convocation and will graduate “With Honors in Nursing.” Students who complete the program will receive a certificate of acknowledgement at the role of the professional nurse. Additionally, students who successfully complete the program will receive a certificate of acknowledgement at the Honors Convocation.

**Benefits**

Students benefit from the opportunity to participate in a clinical or research-focused scholarly work that fosters inquiry, initiative, independence, and integration of prior course requirements into a specific role of the professional nurse. Additionally, students who successfully complete the program will receive a certificate of acknowledgement at the UAB Honors Convocation and will graduate “With Honors in Nursing.”

**Acceptance into the Nursing Honors Program requires the student to:**

- Be accepted into the School of Nursing
- Have earned a 3.40 GPA in pre-nursing courses
- Have earned a 3.00 GPA UAB and overall
- Have submitted the Honors Program Application Form
- Have been selected by Honors Committee from application, transcript evaluation, and interview
- Second degree students and RN-BSN Mobility students are eligible for participation in the nursing honors program

**Requirements**

- Maintenance of a 3.00 GPA (UAB) and a 3.25 GPA in nursing courses through graduation.
- Completion of a minimum of 7 credit hours designated for honors clinical courses/seminars.
- Participation in three Honors Seminars to include completion of an honors project.
- A formal written report in the form of a scholarly paper based on the honors project.
- An oral or poster presentation at a designated meeting in the School of Nursing, professional meeting or scientific session.

**Eligibility**

Acceptance into the Nursing Honors Program requires the student to:

- Have earned a 3.00 GPA in pre-nursing courses
- have submitted the Honors Program Application Form
- Have been selected by Honors Committee from application, transcript evaluation, and interview
- Second degree students and RN-BSN Mobility students are eligible for participation in the nursing honors program

**Admission Requirements for the BSN Degree: RN-BSN Mobility Option**

The RN-BSN Mobility Program for registered nurses (RNs) is distance-accessible program with a one-time, 2 day on campus intensive requirement. The program is designed to provide an opportunity for advanced placement in the program of nursing studies for individuals with previous nursing knowledge and/or experience. The Mobility Program is open to any student who has submitted evidence of successful completion of an accredited diploma or associate degree nursing program and who is licensed to practice as an RN. Admission to the RN-BSN Mobility option is available in the fall and spring terms.

Upon admission to the School of Nursing, RNs can earn their BSN in as few as 2 terms; however, the curriculum plan can be individualized for students who choose to decelerate their pace due to other commitments (average time for completion is 3 to 4 terms).

**Requirements for admission include the following:**

- Admission to UAB as a regular pre-RN mobility student through the Office of Undergraduate Admissions.
- Application for admission to the School of Nursing RN Mobility Program.
- Admission grade point average of at least 2.5 on a 4.0 scale.
- Evidence of successful completion of an accredited diploma or associate degree nursing program and a current license to practice as a registered nurse in the state in which you will do your practicum course.
- Admission to the School of Nursing Honors program will graduate “With Honors in Nursing.”

**Contact**

For more information and/or admission to the Nursing Honors Program, please contact:

Dr. Angela Jukkala, Ph.D., R.N.
Coordinator of Honors in Nursing
UAB School of Nursing
Telephone: (205) 996-6136
Email: jukkala@uab.edu

The University of Alabama at Birmingham
statistics would not be included in this exemption. Student with a bachelor’s degree may also qualify for the ADN to MSN option. https://www.uab.edu/nursing/home/student-information/acad-prog/msn

Pre-Nursing Requirements for RN-BSN Mobility

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Nursing</td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>MA 480 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>PY 214 Elementary Statistical Methods and Design</td>
<td></td>
</tr>
<tr>
<td>QM 214 Quantitative Analysis I</td>
<td></td>
</tr>
<tr>
<td>JS 120 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Any course not used to satisfy another requirement may be taken from any area. Recommended Courses Include:</td>
<td>3</td>
</tr>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td></td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 245 Contemporary Social Problems</td>
<td></td>
</tr>
<tr>
<td>PHL 125 Introduction to Ethics</td>
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<tr>
<td>Or a foreign language, especially Spanish.</td>
<td></td>
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</tbody>
</table>

Total Hours 21

Requirements for Major in Nursing (RN-BSN Mobility)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Nursing Courses</td>
<td></td>
</tr>
<tr>
<td>NUR 347 Pathophysiology for Professional Nursing Practice for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 381 Informatics and Research for Nursing Practice for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 474 Transition to Professional Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 475 Health Assessment Across the Lifespan for RNs</td>
<td>4</td>
</tr>
<tr>
<td>Required Mobility Courses</td>
<td></td>
</tr>
<tr>
<td>NUR 378 Nursing of the Older Adult for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 397 Community and Public Health Nursing for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 457 Leadership and Management in Professional Nursing for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 458L Clinical Practicum for RNs</td>
<td>2</td>
</tr>
<tr>
<td>Nursing Elective</td>
<td></td>
</tr>
<tr>
<td>Select three hours from Nursing (NUR) courses not used to satisfy other requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 30

Additional Requirements

RN License

Only students who are licensed RNs may complete the Mobility curriculum

Pre-Application Advisor Contact

Students interested in the RN Mobility program should contact the Student Nurse Recruiter who advises the RN Mobility students. Please call 205-934-5491 to speak to the advisor.

Progression Requirements

The RN student who has successfully completed all prerequisite courses and the courses listed below will receive equivalency credit of 36 semester hours for specified clinical nursing courses.

Flexible Scheduling

This distance-accessible option offers RNs the flexibility to complete the BSN requirements while maintaining work and family responsibilities. Faculty are available in person or in virtual classroom format.

Practicum Course

There is one practicum (clinical) course in the RN Mobility Program. This course is designed to enable RN students to build on their existing clinical expertise, broaden their exposure to different specialty areas, and apply theory learned throughout the curriculum. Faculty will assist the RN in planning experience that meet the clinical course objective. For students who live outside the Birmingham area, faculty will assist in arranging preceptored clinical experience.

RN-BSN Mobility Course Requirements

BSN Foundation Courses

Grades for these courses will be used to calculate the BSN Foundation grade point average for admission into the School of Nursing

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CH 105 Introductory Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 106</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 106 Introductory Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>EH 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>EH 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MA 105 Pre-Calculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional General Studies Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Art</td>
<td>3</td>
</tr>
<tr>
<td>Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>History 1</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>Elective from Area IV or History (If literature sequence completed, can do elective from Area IV) 1</td>
<td>3</td>
</tr>
<tr>
<td>Elective from Area II or Literature (If literature sequence is completed, can do an elective from Area IV) 1</td>
<td></td>
</tr>
</tbody>
</table>

1 Students need either a 6 hour sequence in literature or history.
Professional Nursing Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 347  Pathophysiology for Professional Nursing Practice for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 381  Informatics and Research for Nursing Practice for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 378  Nursing of the Older Adult for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 397  Community and Public Health Nursing for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 457  Leadership and Management in Professional Nursing for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 458L Clinical Practicum for RNs</td>
<td>2</td>
</tr>
<tr>
<td>NUR 474  Transition to Professional Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 475  Health Assessment Across the Lifespan for RNs</td>
<td>4</td>
</tr>
<tr>
<td>Nursing Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

1 36 credits of validated courses from previous nursing content will be awarded after successful completion of NUR 474, NUR 475, NUR 381, and NUR 347.

2 Students may replace these courses with graduate level nursing courses, after meeting with their faculty advisor.

Students planning to continue towards the MSN Degree

A student may substitute two courses from their RN-BSN Mobility courses as listed above. Any course substituted will go towards the students BSN degree, and will be waived from their master’s degree requirements if the course is part of that master’s specialty coursework.

A student will need to apply for the masters of nursing program through the on-line application listed at: https://app.applyyourself.com/?id=uab-grad

For admission in good standing to the MSN program:

• Cumulative grade point average of at least 3.0 on a 4.0 scale, or on the last 60 semester hours.
• A score of 410 on the MAT; or a combined score of 293 (or a 1000 on the previous scale) on the verbal and quantitative sections of the Graduate Record Examination (GRE) or a score of 480 on the GMAT.
• Letters of professional reference attesting to the applicant’s potential for graduate study.
• Pre-admission interview with graduate faculty.

GRE, GMAT, and MAT are waived for students with a 3.2 or better GPA. The GRE/GMAT/MAT Waiver Process allows eligible candidates for masters’ study to have the requirement of satisfactory GRE, GMAT or MAT scores waived for admission if the student has BSN Grade Point Average (GPA) of 3.2 or above on a 4.0 scale. Students in the RN-BSN-MSN option must maintain a cumulative grade point average of at least 3.0 and follow their approved curriculum plan.
School of Public Health

About UAB

Over four decades, UAB has evolved from an academic extension center into an autonomous, comprehensive urban university and academic health center within the University of Alabama System. UAB has established wide-ranging programs in six liberal arts and professional schools and six health-professional schools, with graduate programs serving all major units. The University has seen record overall enrollment for five consecutive years, with more than 18,500 students in Fall 2013. Classes are offered seven days a week.

UAB is situated near downtown Birmingham and the historic Five Points South district. The campus stretches across 86 square blocks and occupies more than 100 primary buildings. UAB is Alabama’s largest single-site employer, with more than 23,000 employees and an economic impact exceeding $5 billion annually on the state.

About the School of Public Health

The School of Public Health was established in 1978 when Dr. William Bridges established a program to address community health problems. His activity captivated a great deal of press and attracted the attention of Dr. Jarvis Ryals, a neurologist, 1965 UAB graduate, and donor. He initiated the creation of the building that the school now occupies and requested that it be named after his parents.

For over thirty years, the School of Public Health has continued Dr. Bridges’ crusade to improve health and living conditions in local Alabama communities and has expanded that vision to all areas of the world. Through research, education, and community outreach, we address community and global health problems and train the next generation of innovative public health workers.

The mission of the School of Public Health is to lead in developing, disseminating and applying knowledge to prevent disease and promote health in the human population. Because of its inherent breadth, public health is comprised of many disciplines. Thus the school achieves its mission by bringing the various disciplines together to educate individuals who will be working to prevent disease and improve the health of the school’s constituent populations. These individuals include experienced public health and other health professionals, undergraduates with education backgrounds in the sciences, and persons from developing countries with health-related backgrounds. An implicit part of this mission is a commitment to increase and validate, through research and practice, the body of knowledge upon which the school’s educational programs are necessarily based.

Contact Information

Dean: Max Michael, MD
Associate Dean of Academic Affairs: Melissa Galvin, PhD
Undergraduate Student Advisor: Nicole Gravitt, MA
Advisor’s Contact Number: (205) 934-7759
Major Offered: Bachelor of Science in Public Health
Minor Offered: Public Health
Website: www.soph.uab.edu/students

Bachelor of Science in Public Health

Degree Concentration

The bachelor’s degree is designed to give students a foundational understanding of public health issues and methods. The UAB School of Public Health will offer a Bachelor of Science in Public Health in the following three concentrations:

• Global Health Concentration
• Environmental Health Concentration
• Public Health Preparedness Concentration

website: http://www.soph.uab.edu/bachelors

Admissions

To apply to UAB, you’ll need to submit the following:

• a completed UAB application
• $30 application fee (payable by credit or debit card) or application fee waiver
• Your official high school transcript (which should be sent directly to UAB from your high school)
• Your official ACT or SAT scores (please send ALL test scores regardless of highest composite or test date)

UAB Undergraduate Admissions Website: http://www.uab.edu/students/undergraduate-admissions

Tuition and Fees

Undergraduate Courses

The Detailed Tuition and Fee Schedule is available online https://www.uab.edu/students/current/paying-for-college/detailed-tuition-and-fees

Estimated Tuition and Fees

To ascertain Tuition and Fees Schedule please visit BlazerNET located online at www.uab.edu/blazernet

Deadlines

Student account payment deadlines are available on the Academic Calendar for each term. Fifty percent of your total student account must be paid by the first payment deadline and the entire account balance must be paid in full by the second payment deadline. Payment deadline dates are available on the Academic Calendar located online at http://www.uab.edu/academiccalendar.

Penalties

Students who fail to pay by the deadline are subject to substantial late fees. Students with delinquent accounts will not be allowed to register at UAB, and transcript requests will not be honored until all accounts are paid in full. The list of penalties is available online at http://www.uab.edu/whentopay/penalties.
How to Pay

Payments can be made via the web with a Blazer ID and Password at www.uab.edu/blazernet. For detailed instructions please visit the website http://www.uab.edu/images/stuff/pdf/Making_a_payment_in_BlazerNET.pdf. The One Stop office also has a drop box where checks can be dropped off. Payments can also be made at Student Accounting Services. All fees are due by the published deadline, as indicated on the UAB Academic Calendar at http://www.uab.edu/academiccalendar. For tuition questions please call Student Accounting Services at (205) 934-3570.

Contact

Student Accounting Services
1700 University Blvd.
LHL Ground Floor G10
Birmingham, AL 35294
(205) 934-3570

Bachelor of Science in Public Health

Catalog: https://www.soph.uab.edu/bachelors

Description

The B.S in Public Health degree program will train students in multidisciplinary approaches to public health practice and research. The degree will explore both quantitative and qualitative aspects of public health at all levels of analysis. Graduates will advance, through employment or further education, to become the new generation of public health professionals prepared to face the emerging challenges to human health from a population perspective.

The B.S. degree in Public Health will be offered through the UAB School of Public Health which is the only CEPH accredited program in the state (Council on Education for Public Health (CEPH), a U.S. Department of Education recognized agency). The Public Health major will provide a broad and rigorous sequence of courses in biostatistics, epidemiology, public health systems, behavior science, and environmental health sciences. Students must choose one of the following public health concentrations: preparedness, environmental health sciences, or global health from a population perspective.

The University of Alabama at Birmingham

(36x140)Major Requirements for Public Health

Program Completion Requirements

- Credit hours required in major: 39 hours plus a 1 hour first year experience course
- Credit hours required: Concentration – 21 hours
- Credit hours in institutional general education or core curriculum: 41
- Credit hours in required or free electives: 18 hours
- Total credit hours required for completion: 120

Major Requirements for Public Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience (for students entering UAB w/ less than 24 credit hours earned)</td>
<td></td>
</tr>
<tr>
<td>PUH 101 Prepare, Promote and Prevent</td>
<td>1</td>
</tr>
<tr>
<td>Public Health Core Classes (39 hours)</td>
<td></td>
</tr>
<tr>
<td>PUH 201 The Origins of Epidemics: How Public Health Defines Population and Nations</td>
<td>3</td>
</tr>
<tr>
<td>PUH 202 Introduction to Global Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Undergraduate Program Concentrations

Environmental Health Concentration

A degree in Environmental Health Sciences will prepare you to protect both the environment and workers by identifying and eliminating health hazards. The environmental health sciences concentration will teach you to identify toxins and their effects on human and natural populations. Environmental scientists work in public and private sector careers to address problems such as pollution, water safety, and ecosystem protection.

Environmental Health Curriculum Planning Sheet

- Please visit the Environmental Health Sciences website for more information: http://www.soph.uab.edu/ehs

Concentration in Environmental Health Sciences

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENH 300 Toxicology: Poisons, People and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENH 301 The Workplace Environment and Worker Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENH 310 Environmentalism, Environmental Justice, and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ENH Electives ¹</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Hours 21

¹ Approved electives for the Environmental Health Sciences concentration include:
ENH 401, ENH 412, ENH 491 or ENH 498, GHS 430, and GHS 420.

Global Health Concentration

As a student in the Global Health concentration you will learn about health conditions that affect people around the world and associated challenges that make these issues difficult to address such as poverty, cultural beliefs, and population dynamics. This program will prepare you to work both locally and globally in public health by studying the effects of disease and learning how to plan and implement public health programs.
Global Health Curriculum Planning Sheet

- Please visit the Sparkman Center website for more information: http://www.soph.uab.edu/sparkman/about

Concentration in Global Health Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS 401</td>
<td>Global Communicable Disease Challenges</td>
</tr>
<tr>
<td>GHS 301</td>
<td>The Rise of Non-Communicable Diseases Globally</td>
</tr>
<tr>
<td>GHS 302</td>
<td>Introduction to International Development</td>
</tr>
<tr>
<td>GHS 303</td>
<td>Food Security and Nutrition: Local, National and Global Issues</td>
</tr>
<tr>
<td>GHS 402</td>
<td>Global Health Cases</td>
</tr>
<tr>
<td>GHS Elective ¹</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

¹ Approved Electives for the Global Health Studies concentration include:
GHS 220, GHS 404, GHS 405, GHS 406, GHS 430, GHS 420, GHS 497, GHS 498, EC 407, PSC 360, PSC 362, ANTH 299.

Public Health Preparedness Concentration

Public Health Preparedness Concentration - With the increase in prevalence and magnitude of natural disasters, it is important for organizations and communities to be prepared for emergencies. In the preparedness concentration, you will learn about disasters from an economic, historical, and policy perspective. You will also learn to develop and evaluate emergency preparedness plans.

Preparedness Curriculum Planning Sheet

- Please visit the Health Care Organization and Policy website for more information: http://www.soph.uab.edu/hcop

Concentration in Public Health Preparedness

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCO 305</td>
<td>The History and Consequences of World Disasters</td>
</tr>
<tr>
<td>HCO 306</td>
<td>Public Health Preparedness and Response Capabilities</td>
</tr>
<tr>
<td>HCO 340</td>
<td>Disaster and Emergency Management</td>
</tr>
<tr>
<td>HCO 341</td>
<td>Public Health Preparedness and Emergency Management: Law, Policy, and Planning</td>
</tr>
<tr>
<td>HCO 405</td>
<td>Issues in Emergency Preparedness: Ethics and Vulnerable Populations</td>
</tr>
<tr>
<td>HCO 406</td>
<td>Emergency Preparedness Training, Exercises and Improvement Planning</td>
</tr>
<tr>
<td>HCO 407</td>
<td>Preparedness, Response, and Recovery Systems: Preparedness Capstone Course</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

Minor Requirements for Public Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Public Health Courses</td>
<td></td>
</tr>
<tr>
<td>PUH 201</td>
<td>The Origins of Epidemics: How Public Health Defines Population and Nations</td>
</tr>
<tr>
<td>PUH 202</td>
<td>Introduction to Global Health</td>
</tr>
<tr>
<td>PUH 302</td>
<td>Epid: Beyond the Outbreak</td>
</tr>
<tr>
<td>Elective Courses</td>
<td></td>
</tr>
<tr>
<td>Any Public Health Undergraduate Elective Courses ¹</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from any college or school within the University.</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

Number of hours required: 18 hours

- 12 hours offered by the School of Public Health
- 6 hours of Selectives - The selective may be from any school within the University (i.e. biology, business, education, sociology, communications, engineering, education, journalism and African American Studies, etc.)

Visit the following page to view undergraduate Public Health electives: http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory

¹ Excluding the following courses: GHS 320, GHS 429, GHS 430, ENH 498, and PUH 495.

Minor in Public Health

Public Health is an exciting and growing field of study. The field challenges its professionals to confront complex health issues, such as improving access to health care, controlling infectious disease, and reducing environmental hazards, violence, substance abuse, and injury. A Bachelor in Public Health is an undergraduate degree, which trains students in the essential skills needed to plan, initiate and manage healthcare programs. Research has shown the impact of healthy lifestyles on the rate of incidence of illnesses and on increasing longevity; hence, public health is now considered a very significant area of study.

Catalog: www.soph.uab.edu/minor

Minor Requirements for Public Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Public Health Courses</td>
<td></td>
</tr>
<tr>
<td>PUH 201</td>
<td>The Origins of Epidemics: How Public Health Defines Population and Nations</td>
</tr>
<tr>
<td>PUH 202</td>
<td>Introduction to Global Health</td>
</tr>
<tr>
<td>PUH 302</td>
<td>Epid: Beyond the Outbreak</td>
</tr>
<tr>
<td>Elective Courses</td>
<td></td>
</tr>
<tr>
<td>Any Public Health Undergraduate Elective Courses ¹</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from any college or school within the University.</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

Number of hours required: 18 hours

- 12 hours offered by the School of Public Health
- 6 hours of Selectives - The selective may be from any school within the University (i.e. biology, business, education, sociology, communications, engineering, education, journalism and African American Studies, etc.)

Visit the following page to view undergraduate Public Health electives: http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory

¹ Excluding the following courses: GHS 320, GHS 429, GHS 430, ENH 498, and PUH 495.
<table>
<thead>
<tr>
<th>General Elective</th>
<th>General Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUH 309</td>
<td>3 PUH 493</td>
<td>3</td>
</tr>
<tr>
<td>PUH 307</td>
<td>3 PUH 495</td>
<td>3</td>
</tr>
<tr>
<td>Concentration course</td>
<td>PUH 405</td>
<td>3</td>
</tr>
<tr>
<td>Concentration course</td>
<td>Concentration course</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>General Elective</td>
<td></td>
</tr>
</tbody>
</table>

6 9

Total credit hours: 56
Core Curriculum

Area I. Written Composition (6 hours)

Effective written communication skills are essential in a literate society. Requirements include six semester hours in written composition. UAB students must complete EH 101 English Composition I and EH 102 English Composition II with the grade of C or better within their first 30 hours or as soon as possible thereafter.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>3</td>
</tr>
</tbody>
</table>

Area II. Humanities and Fine Arts (12 hours)

Study in the humanities addresses the ability to deal with questions of values, ethics, or aesthetics as they are represented in literature, philosophy, religion, and the arts, and is fundamental to general education. Requirements include at least 12 semester hours in humanities with a minimum of three semester hours in literature, three semester hours in the fine arts, and the remaining hours from the humanities and/or fine arts. In addition to literature, disciplines in the humanities include, but are not limited to, philosophy, religious studies, speech, foreign languages, art, music, theatre, and dance. As part of the common Core Curriculum, students must complete a six-semester hour sequence either in literature (Area II) or in history (Area IV).

The following courses satisfy Area II of the Core Curriculum:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 200</td>
<td>3</td>
</tr>
<tr>
<td>ARA 101</td>
<td>3</td>
</tr>
<tr>
<td>ARA 102</td>
<td>3</td>
</tr>
<tr>
<td>ARH 101</td>
<td>3</td>
</tr>
<tr>
<td>ARH 203</td>
<td>3</td>
</tr>
<tr>
<td>ARH 204</td>
<td>3</td>
</tr>
<tr>
<td>ARH 206</td>
<td>3</td>
</tr>
<tr>
<td>CHI 101</td>
<td>3</td>
</tr>
<tr>
<td>CHI 102</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>EH 216</td>
<td>3</td>
</tr>
<tr>
<td>EH 217</td>
<td>3</td>
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<tr>
<td>EH 218</td>
<td>3</td>
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<td>EH 221</td>
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<td>EH 222</td>
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<td>EH 223</td>
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<td>FLL 120</td>
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<td>FLL 220</td>
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<td>FR 101</td>
<td>4</td>
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<td>FR 102</td>
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<td>GN 102</td>
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</tr>
<tr>
<td>GN 201</td>
<td>3</td>
</tr>
<tr>
<td>GN 202</td>
<td>3</td>
</tr>
<tr>
<td>GN 204</td>
<td>3</td>
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</tbody>
</table>

Area III. Natural Sciences and Mathematics (11 hours)

Study in the natural sciences and mathematics emphasizes the scientific method and applies quantitative or inductive reasoning. Requirements include at least 11 semester hours with at least three semester hours in mathematics at the pre-calculus algebra level or higher and at least eight semester hours in the natural sciences. All courses in the natural sciences must include laboratory experiences. Disciplines in the natural sciences include, but are not limited to, astronomy, biology, chemistry, geology, and physics. UAB students must take the required three semester hours in mathematics within their first 60 hours or as soon as possible thereafter.

The following courses satisfy Area III of the Core Curriculum:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 101</td>
<td>4</td>
</tr>
<tr>
<td>&amp; AST 111</td>
<td>4</td>
</tr>
<tr>
<td>AST 102</td>
<td>4</td>
</tr>
<tr>
<td>&amp; AST 112</td>
<td>4</td>
</tr>
<tr>
<td>AST 103</td>
<td>4</td>
</tr>
<tr>
<td>&amp; AST 113</td>
<td>4</td>
</tr>
<tr>
<td>AST 105</td>
<td>4</td>
</tr>
<tr>
<td>&amp; AST 115</td>
<td>4</td>
</tr>
<tr>
<td>BY 101</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BY 102</td>
<td>4</td>
</tr>
<tr>
<td>BY 111</td>
<td>4</td>
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<tr>
<td>&amp; BY 112</td>
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<tr>
<td>&amp; CH 105</td>
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<td>&amp; CH 106</td>
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<tr>
<td>CH 107</td>
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<td>&amp; CH 108</td>
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<td>CH 115</td>
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<tr>
<td>&amp; CH 116</td>
<td>4</td>
</tr>
<tr>
<td>CH 117</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118</td>
<td>4</td>
</tr>
</tbody>
</table>
Area IV. History, Social, and Behavioral Sciences (12 hours)

Study in history and the social and behavioral sciences deals primarily with the study of human behavior, social and political structures, and economics. Requirements include 12 semester hours with at least a three-semester hour course in history and at least six semester hours from among other disciplines in the social and behavioral sciences. Disciplines include, but are not limited to, anthropology, economics, geography, political science, psychology, and sociology. As part of the common Core Curriculum, students must complete a six-semester hour sequence either in literature (Area II) or in history (Area IV).

The following courses satisfy Area IV of the Core Curriculum:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td>3</td>
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<tr>
<td>ANTH 106 Introductory Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 120 Language and Culture</td>
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</tr>
<tr>
<td>CMST 105 Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
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<tr>
<td>EC 211 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEO 121 World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HY 101 Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HY 102 Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HY 104 World History to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HY 105 World History 1600 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HY 120 The United States To 1877</td>
<td>3</td>
</tr>
<tr>
<td>HY 121 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>ITS 101 Introduction to International Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSC 101 Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102 Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 103 Introduction to International Relations</td>
<td>3</td>
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<tr>
<td>PSC 221 American State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 201 Honors Introduction to Psychology</td>
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<tr>
<td>PY 212 Developmental Psychology</td>
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</table>

Area V. Pre-Professional, Pre-Major, and Elective Courses

Certain degrees/major may require students to take additional required courses and/or elective courses appropriate to the individual degree or program. Students should consult the appropriate college or school section of this catalog to see whether Area V requirements apply to them.

Core Curriculum

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>Area I. Written Composition (p. 294)</td>
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<tr>
<td>English Composition I</td>
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<tr>
<td>English Composition II</td>
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</tbody>
</table>

Area II. Humanities and Fine Arts (12 hours)

Effective written communication skills are essential in a literate society. Requirements include six semester hours in written composition. UAB students must complete EH 101 English Composition I and EH 102 English Composition II with the grade of C or better within their first 30 hours or as soon as possible thereafter.

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<th>Requirements</th>
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<tbody>
<tr>
<td>EH 101 English Composition I</td>
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<tr>
<td>EH 102 English Composition II</td>
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<tr>
<td>Area II. Humanities and Fine Arts</td>
<td>12</td>
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</tbody>
</table>

(p. 294)
Study in the humanities addresses the ability to deal with questions of values, ethics, or aesthetics as they are represented in literature, philosophy, religion, and the arts, and is fundamental to general education. Requirements include at least 12 semester hours in humanities with a minimum of three semester hours in literature, three semester hours in the fine arts, and the remaining hours from the humanities and/or fine arts. In addition to literature, disciplines in the humanities include, but are not limited to, philosophy, religious studies, speech, foreign languages, art, music, theatre, and dance. As part of the common Core Curriculum, students must complete a six-semester hour sequence either in literature (Area II) or in history (Area IV). The following courses satisfy Area II of the Core Curriculum:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AAS 200 Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ARA 101 Introductory Arabic I</td>
<td>3</td>
</tr>
<tr>
<td>ARA 102 Introductory Arabic II</td>
<td>3</td>
</tr>
<tr>
<td>ARH 101 The Art Experience</td>
<td>3</td>
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<tr>
<td>ARH 203 Ancient and Medieval Art</td>
<td>3</td>
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<tr>
<td>ARH 204 Renaissance through Modern Art</td>
<td>3</td>
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<tr>
<td>ARH 206 Survey of Asian Art</td>
<td>3</td>
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<tr>
<td>CHI 101 Introductory Chinese I</td>
<td>3</td>
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<tr>
<td>CHI 102 Introductory Chinese II</td>
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<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>EH 216 Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>EH 217 World Literature I: Before 1660</td>
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</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td>3</td>
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<tr>
<td>EH 221 British and Irish Literature I: Before 1800</td>
<td>3</td>
</tr>
<tr>
<td>EH 222 British and Irish Literature II: 1800-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 223 American Literature I: Before 1865</td>
<td>3</td>
</tr>
<tr>
<td>EH 224 American Literature II: 1865-Present</td>
<td>3</td>
</tr>
<tr>
<td>FLL 120 Foreign Cultures</td>
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<tr>
<td>FLL 220 Foreign Literatures in English Translation</td>
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<tr>
<td>FR 101 Introductory French I</td>
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<tr>
<td>FR 102 Introductory French II</td>
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</tr>
<tr>
<td>FR 108 Introductory Intensive French</td>
<td>4</td>
</tr>
<tr>
<td>FR 201 Intermediate French I</td>
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</tr>
<tr>
<td>FR 202 Intermediate French II</td>
<td>3</td>
</tr>
<tr>
<td>GN 101 Introductory German I</td>
<td>4</td>
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<tr>
<td>GN 102 Introductory German II</td>
<td>4</td>
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<tr>
<td>GN 201 Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>GN 202 Intermediate German II</td>
<td>3</td>
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<tr>
<td>GN 204 Readings in German Literature</td>
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<tr>
<td>ITL 101 Introductory Italian I</td>
<td>3</td>
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<tr>
<td>ITL 102 Introductory Italian II</td>
<td>3</td>
</tr>
<tr>
<td>JPA 101 Introductory Japanese I</td>
<td>3</td>
</tr>
<tr>
<td>JPA 102 Introductory Japanese II</td>
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<tr>
<td>MU 120 Music Appreciation</td>
<td>3</td>
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<tr>
<td>PHL 100 Introduction to Philosophy</td>
<td>3</td>
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<tr>
<td>PHL 115 Contemporary Moral Issues</td>
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<tr>
<td>PHL 116 Bioethics</td>
<td>3</td>
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<tr>
<td>PHL 120 Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 125 Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203 Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SPA 101 Introductory Spanish I /QL</td>
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</tr>
<tr>
<td>SPA 102 Introductory Spanish II</td>
<td>4</td>
</tr>
<tr>
<td>SPA 108 Introductory Intensive Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPA 201 Intermediate Spanish I</td>
<td>3</td>
</tr>
</tbody>
</table>

Area III. Natural Sciences and Mathematics (p. 294) 11 hours
Study in the natural sciences and mathematics emphasizes the scientific method and applies quantitative or inductive reasoning. Requirements include at least 11 semester hours with at least three semester hours in mathematics at the pre-calculus algebra level or higher and at least eight semester hours in the natural sciences. All courses in the natural sciences must include laboratory experiences. Disciplines in the natural sciences include, but are not limited to, astronomy, biology, chemistry, geology, and physics. UAB students must take the required three semester hours in mathematics within their first 60 hours or as soon as possible thereafter.

The following courses satisfy Area III of the Core Curriculum:

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AST 101</td>
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<tr>
<td>&amp; AST 111</td>
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<tr>
<td>&amp; Astronomy of the Universe</td>
<td>4</td>
</tr>
<tr>
<td>AST 102</td>
<td>4</td>
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<tr>
<td>&amp; AST 112</td>
<td></td>
</tr>
<tr>
<td>&amp; Astronomy of Stellar Systems Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AST 103</td>
<td>4</td>
</tr>
<tr>
<td>&amp; AST 113</td>
<td></td>
</tr>
<tr>
<td>&amp; Astronomy of the Solar System</td>
<td>4</td>
</tr>
<tr>
<td>AST 105</td>
<td>4</td>
</tr>
<tr>
<td>&amp; AST 115</td>
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<tr>
<td>&amp; Extraterrestrial Life Laboratory</td>
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<tr>
<td>BY 101</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BY 102</td>
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<tr>
<td>Topics in Contemporary Biology Laboratory</td>
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<tr>
<td>BY 111</td>
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<tr>
<td>&amp; BY 112</td>
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<tr>
<td>Extended Topics in Contemporary Biology</td>
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<tr>
<td>BY 123</td>
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<tr>
<td>BY 124</td>
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<td>CH 105</td>
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<tr>
<td>&amp; CH 106</td>
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<tr>
<td>Introductory Chemistry I Laboratory</td>
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<tr>
<td>CH 107</td>
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<tr>
<td>&amp; CH 108</td>
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<tr>
<td>Introductory Chemistry II Laboratory</td>
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<tr>
<td>CH 115</td>
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<tr>
<td>&amp; CH 116</td>
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<tr>
<td>General Chemistry I Laboratory</td>
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<tr>
<td>CH 117</td>
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<tr>
<td>&amp; CH 118</td>
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<tr>
<td>General Chemistry II Laboratory</td>
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<tr>
<td>ENV 108</td>
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<tr>
<td>&amp; ENV 109</td>
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<tr>
<td>Human Population and the Earth’s Environment</td>
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<tr>
<td>ES 101</td>
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<tr>
<td>&amp; ES 102</td>
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<tr>
<td>Physical Geology Laboratory</td>
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<td>ES 103</td>
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<td>&amp; ES 104</td>
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<td>History of the Earth Laboratory</td>
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<td>MA 105</td>
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<td>MA 106</td>
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<td>Pre-Calculus Algebra</td>
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<td>Precalculus Algebra and Trigonometry</td>
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<td>MA 109</td>
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<tr>
<td>Survey of Calculus</td>
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<td>MA 110</td>
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<td>Finite Mathematics</td>
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<td>MA 125</td>
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<td>Calculus I</td>
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<td>MA 126</td>
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<td>MA 227</td>
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<td>Calculus III</td>
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<td>MA 252</td>
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<tr>
<td>Introduction to Differential Equations</td>
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<td>MA 260</td>
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<tr>
<td>Introduction to Linear Algebra</td>
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<td>PH 201</td>
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<td>College Physics I</td>
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<td>General Physics II</td>
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<tr>
<td>PHS 101</td>
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<tr>
<td>Physical Science</td>
<td>4</td>
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</table>

### Area IV. History, Social, and Behavioral Sciences (p. 294)

Study in history and the social and behavioral sciences deals primarily with the study of human behavior, social and political structures, and economics. Requirements include 12 semester hours with at least a three-semester hour course in history and at least six semester hours from among other disciplines in the social and behavioral sciences. Disciplines include, but are not limited to, anthropology, economics, geography, political science, psychology, and sociology. As part of the common Core Curriculum, students must complete a six-semester hour sequence either in literature (Area II) or in history (Area IV).

The following courses satisfy Area IV of the Core Curriculum:

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH 101</td>
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<td>ANTH 103</td>
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<td>ANTH 120</td>
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<td>CMST 105</td>
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### Hours

<table>
<thead>
<tr>
<th>Area V. Pre-Professional, Pre-Major, and Elective Courses (p. 294)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certain degrees/major may require students to take additional required courses and/or elective courses appropriate to the individual degree or program. Students should consult the appropriate college or school section of this catalog to see whether Area V requirements apply to them.</td>
</tr>
</tbody>
</table>

### Total Semester Hours:

41
AAP-Administration Planning Courses

AAS-African American Studies Courses

AAS 165. Jazz Styles: History and Appreciation. 3 Hours.
American jazz with emphasis on instrumental and vocal performers, jazz bands, and combos. Development of big band, swing, and popular music.

AAS 200. Introduction to African-American Studies. 3 Hours.
Examination of seven core areas of African American Studies: History, Religion, Social Organization, Politics, Economics, Creative Production, and Psychology. Emphasizes major thematical theoretical and critical discourses of Black Studies, and its emergence as a political/social movement and discipline. Relates the latter to the complexity and diversity of contemporary movements such as Civil Rights, Free Speech, Black Power, and Afro-centricism. Majors and minors in African American Studies should complete this course before enrolling in any higher level AAS course. Ethics and Civic Responsibility are significant components of this course (QEP).

AAS 220. History of Sport: The African American Experience. 3 Hours.
This course provides a socio-cultural and historical overview of the African American athletes (male and female) that contributed to sports as we know them today. Focus will begin on the historical figures that helped shape sports culture and will continue into discussions about the role African-Americans play in collegiate and professionals sports today.

AAS 223. African Amer Hist to Civil War. 3 Hours.
Survey of the African American experience from Pre-Colonial Africa to the End of the Civil War.

AAS 224. African American History Since 1865. 3 Hours.
Survey of late 19th century to present African American history.

AAS 250. Special Topics in African-American Studies. 3 Hours.
Specific topic in African American Studies.

AAS 290. Writing in African American Studies. 3 Hours.
Course offers students continued practice in reading, research, and writing central to academic investigation and to inter-disciplinary approaches. Develops skills in writing across disciplines and critical thinking. Emphasizes readings on diverse, contemporary, and multicultural issues in African American Studies. Writing, Ethics and Civic Responsibility are significant components of this course (QEP).

AAS 300. African American Music. 3 Hours.
Survey, history and appreciation of African derived music and its presence in the United States from its earliest forms in spirituals, blues and jazz to contemporary forms of be-bop, hip-hop, reggae, and rap.

AAS 301. History and Tradition of Gospel Music. 3 Hours.
The purpose of this course is to broaden the knowledge of American Gospel Music history and to identify the valuable contributions of this genre by studying its eras and major contributors.

AAS 310. Black Image: Screen and Television. 3 Hours.
History and definition of the image of the African ancestral people in the United States through cinema and television.

AAS 320. African Identity/Personality. 3 Hours.
This course is a study of the African identity, personality, and the concept of blackness with particular emphasis on what it means to be black in America. An adequate discourse on the complexities of African American Studies requires a multi-disciplinary approach that considers the expansive nature of the African Experience in North America. Accordingly, any substantive intellectual and scholarly foundation for critically understanding the salient areas of this course require the application of cross-discipline areas of study involving race, culture, socioeconomics, history, African American political behavior, and psychosocial theories of development. Quantitative Literacy is a significant component of this course (QEP).

AAS 325. Black Psychology. 3 Hours.
This course examines and explores theory, research, and practice related to the study of psycho-social experiences from the worldview of Africans in America.
Prerequisites: AAS 200 [Min Grade: C]

AAS 330. African Aesthetics and Traditional Religion. 3 Hours.

AAS 340. Medieval African Technology. 3 Hours.
Development, evolution, and impact of foundational African technology on contemporary inventions in architecture, engineering, and medicine.

AAS 350. Research Methods in African American Studies. 3 Hours.
Research Methods in Africana Studies will introduce students to a general conceptual framework for ordering the social theories and methods that people of African descent have used to interpret and understand Africana life experiences.
Prerequisites: AAS 200 [Min Grade: C]

AAS 366. African American Literature II. 3 Hours.
Cultural values from James Baldwin in 1950s, through black nationalist, civil rights, and black feminist movements, to contemporary writers such as Ishmael Reed, Charles Johnson, and Toni Morrison.
Prerequisites: EH 101 [Min Grade: C] and EH 102 [Min Grade: C] and AAS 200 [Min Grade: C]

AAS 400. Seminar in African American Studies. 3 Hours.
Specific topic in African American Studies.
Prerequisites: AAS 200 [Min Grade: C]

AAS 420. Public Health and Medical Issues in African Communities. 3 Hours.
This course introduces students to important health issues that face the African American community. The goals are to increase awareness and stimulate discussion about health problems facing African Americans, factors believed to cause, contribute or worsen these problems, and steps now taken to alleviate or eliminate these problems.

AAS 447. African-American Dramatic Tradition. 3 Hours.
Development of African American dramatic tradition from the nineteenth century through the Harlem Renaissance and Black Arts movement to contemporary postmodernism, including Brown, Hurston, Baraka, and Wilson.

AAS 448. African American Poetry Tradition. 3 Hours.
Development of African American poetry from its early works to the present, including Wheatley, DuBose, Hughes, Brooks, and Angelou.
Prerequisites: EH 101 [Min Grade: C] and EH 102 [Min Grade: C]
AAS 490. African American Studies Internship. 3 Hours.
On campus and off campus training positions in fields utilizing cross
disciplinary skills, with some positions offering external funding. Students
should contact the Program Director for listings of available positions and
application procedures. May be counted as elective only. Preq: Junior
or senior standing as African American Studies major and approval of
application. May be repeated once for credit. 3 hours. Permission of the
Program Director is needed.

AAS 493. Capstone Seminar. 3 Hours.
Specific topics vary...The course will provide an opportunity for students to
reflect upon and to use the knowledge, skills and dispositions
developed in previous African American Studies coursework. This course or
AAS 495 required of all AAS majors. AAS 493 is ideally taken in the
final undergraduate semester. Preq: 9 hours AAS coursework at the 400
level and permission of the Program Director. 3 hours.

AAS 495. Individual Studies. 3 Hours.
Specific topics vary. An individually designed course for semi-
independent research or guided readings in areas and subjects that
synthesize the African American Studies core areas. The course will
provide an opportunity for students to reflect upon and use the
knowledge, skills, and disposition developed in previous African American
Studies coursework. This course or AAS 493 required of all AAS majors.
AAS 495 is ideally taken in the final undergraduate semester. Consult
Program Director for procedure to apply for this course.

AAS 497. Honors Seminar. 3 Hours.
Students are taught the basics of research, statistical analysis and
techniques of making a formal presentation of research. Under the
guidance of the Program Director and faculty mentor, students are
required to develop an honors research project.
Prerequisites: AAS 200 [Min Grade: D] and AAS 320 [Min Grade: D] and
AAS 325 [Min Grade: D]

AAS 498. Honors Project. 3 Hours.
Under the guidance of the faculty mentor, students complete the project
and make a formal presentation of the research.
Prerequisites: AAS 497 [Min Grade: D]

AC-Accounting Courses

AC 200. Principles of Accounting I. 3 Hours.
Basic concepts with focus on how accounting events affect financial
statements. Emphasizes preparation, communication and use of
external financial reports, accrual versus cash, receivables, payables,
inventory, recording long-term operational assets, long-term liabilities,
stockholders’ equity, recording procedures, and financial statement
analysis dealing with the benefits and risks associated with that
information. Quantitative Literacy is a significant component of this course
(QEP).

AC 201. Principles of Accounting II. 3 Hours.
Basic concepts associated with internal reporting. Use of relevant
information for planning, control, and decision making. Cost behavior,
cost allocation, product costing, budgeting, responsibility accounting, and
capital budgeting.
Prerequisites: AC 200 [Min Grade: C]

AC 300. Financial Accounting I. 3 Hours.
Accounting cycle, environment of financial accounting, conceptual
framework of financial accounting, financial statements, time value of
money, cash, receivables and valuation of inventories.
Prerequisites: (AC 201 [Min Grade: C] and AC 304 [Min Grade: C] and
GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and AC 304 [Min Grade: C] and
GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 304. Accounting Information Systems. 3 Hours.
Transaction processing cycles of accounting system; internal control,
development, and control of information systems; emerging development
of information technology.
Prerequisites: (AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or
(AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 310. Financial Accounting II. 3 Hours.
Continuation of AC 300. Inventories, plant assets, intangible assets,
current liabilities, long-term debt and stockholders’ equity.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and
GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min
Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 320. Financial Accounting Survey. 3 Hours.
Accounting cycle, financial accounting theory, financial statements,
cash and receivables, inventories, plant assets, intangible assets,
current liabilities, long-term debt, stockholders’ equity, investments,
income taxes, pension benefits, leases, error correction, and reporting
of accounting changes and earnings per share. Not open to accounting
majors.
Prerequisites: (AC 201 [Min Grade: C] and GPAT and GPAO 2.00) or
(AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 401. Cost Accounting. 3 Hours.
Basic theory and procedures involving cost determination, analysis,
and control. Cost allocations, application of overhead, budgeting,
standard costs, job order, process and by-product costing, spoilage, and
quantitative techniques. Junior standing required.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and
GPAT and GPAO 2.00) or (AC 320 [Min Grade: C] and GPAT and GPAO 2.00)
or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
or (AC 320 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 402. Income Taxation I. 3 Hours.
Fundamentals and basic concepts of taxation of various entities, with
emphasis on federal income taxation of individuals. Junior standing
required.
Prerequisites: (AC 201 [Min Grade: C] and GPAT and GPAO 2.00) or
(AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 413. Internal Auditing. 3 Hours.
Theory and practice of internal auditing and application of internal
auditing principles and techniques to selected audit problems.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and
GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min
Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 414. Governmental and Not-for-Profit Accounting. 3 Hours.
Budgetary and fund accounting as applied to municipalities, other
governmental units, and institutions operating as nonprofit entities.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and
GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min
Grade: C] and GPAU 2.00 and GPAO 2.00)
AC 423. External Auditing. 3 Hours.
Study of the external audit function and the essential standards that govern audit practice.
Prerequisites: AC 413 [Min Grade: C] (Can be taken Concurrently) and AC 310 [Min Grade: C] and GPAT and GPAO 2.00) or AC 413 [Min Grade: C] (Can be taken Concurrently) and AC 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

AC 430. Financial Accounting III. 3 Hours.
Dilutive securities, earnings per share, investments, accounting for income taxes, accounting changes and error analysis, statement of cash flows, retirement benefits, leases and selected disclosures.
Prerequisites: (AC 310 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 440. International Accounting: From a User’s Perspective. 3 Hours.
Development of internatinal accounting knowledge needed to make informed decisions in global business environment.
Prerequisites: AC 200 [Min Grade: C] and AC 201 [Min Grade: C]

AC 441. International Accounting: Study Abroad. 3 Hours.
Development of internatinal accounting knowledge needed to make informed decisions in global business environment through study abroad.
Prerequisites: AC 440 [Min Grade: C]

AC 452. Income Taxation II. 3 Hours.
Completion of fundamentals of taxation for individuals. Basic concepts and laws applicable to partnerships and corporations. Tax research techniques and tax planning concepts.
Prerequisites: (AC 402 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 402 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 464. Accounting Internship. 3 Hours.
Work experience enabling students to better integrate academic knowledge with practical applications by exposure to accounting practice and business environment.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAT and GPAO 2.50) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.50)

AC 472. Forensic Accounting and Information Tech Auditing. 3 Hours.
Introduction to the practice of forensic accounting and its relationship to auditing in settings characterized by extensive reliance on information technology. An emphasis on audit methodology as applied to accounting information systems.
Prerequisites: (AC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 473. Fraud Examination. 3 Hours.
Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse—its origins, perpetration, prevention, and detection.
Prerequisites: (AC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 474. Forensic Accounting Practicum. 1-3 Hour.
Work experience requiring the application of forensic accounting concepts and methods.
Prerequisites: (AC 472 [Min Grade: C] and AC 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (AC 472 [Min Grade: C] and AC 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 480. Advanced Financial Accounting. 3 Hours.
Business combinations, consolidated financial statements, multinational accounting, and partnerships.
Prerequisites: (AC 430 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 430 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 490. Advanced Topics in Accounting. 3 Hours.
Contemporary professional accounting issues. Preq: Permission of instructor.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

AC 495. Accounting Capstone. 3 Hours.
Course brings together in one setting the learned skills and knowledge needed in a professional career in accounting. Permission of the Accounting and Finance Department Chair required.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and AC 310 [Min Grade: C] and AC 401 [Min Grade: C] and AC 402 [Min Grade: C] and AC 413 [Min Grade: C] and AC 430 [Min Grade: C] and AC 310 [Min Grade: C] and AC 401 [Min Grade: C] and AC 402 [Min Grade: C] and AC 413 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 499. Directed Readings. 1-3 Hour.
Readings and independent study in selected areas.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

AEB-Applied Environ Biotech Courses

AEL-Area Educ Leadership Courses

AFS-Aerospace Studies Courses

AFS 101. Air Force Today. 1 Hour.
Topics relating to Air Force and national defense. Purpose, structure, and career opportunities in U.S. Air Force. Written communication.

AFS 102. Air Force Today. 1 Hour.
Interpersonal communication. Effective listening techniques; verbal and nonverbal communication. Practical exercises and group projects to demonstrate barriers to effective communication and techniques to overcome barriers.

AFS 103. The Air Force Today. 1 Hour.
Oral communication. Strategies, techniques, and delivery of effective oral presentations.

AFS 201. Development of Air Power. 1 Hour.
Historical survey of technological innovation in warfare. Emergence of air power; significance in war and national security policy implementation.

AFS 202. Development of Air Power. 1 Hour.
Leadership and followership traits in context of modern military force. Ethical standards of military officers and Air Force core values. Total quality management.

AFS 203. The Air Force Way. 1 Hour.
Advanced application of oral communication skills. Organization, research, delivery, and audience analysis for briefings and presentations. Group leadership problems designed to enhance interpersonal communication.

AFS 250. Field Training. 8 Hours.
Six-week training and evaluation course to select potential candidates for Professional Officer Course. Includes all topics in AFS 101, 102, 103, 201, 202, and 203. Rigorous physical training.
AFS 300. Field Training. 2 Hours.
Four-week training and evaluation course to select potential candidates for Professional Officer Course. Rigorous physical training.

AFS 301. Air Force Leadership and Management. 3 Hours.
Selected concepts, principles, and theories of quality Air Force leadership and management. Individual leadership skills and personal strengths and weaknesses as applied to Air Force environment.

AFS 302. Air Force Leadership and Mgt. 3 Hours.
Selected concepts, principles, and theories of quality Air Force leadership and management. Individual leadership skills and personal strengths and weaknesses as applied to Air Force environment.

AFS 303. Air Force Leadership and Mgt. 3 Hours.
Application of listening, speaking, and writing skills in Air Force-specific formats and situations. Air Force officer s responsibilities in personnel counseling and feedback process.

AFS 401. National Security Policy. 3 Hours.
Basic elements of national security policy and process. Roles and missions of air power in implementing national security policy.

AFS 402. Air Force Policy and Process. 3 Hours.
Need for national security; evolution and formulation of American defense policy and strategy; methods for managing conflict; alliances and regional security agreements; analysis of arms control, threat of war, and terrorism. The military as a profession, officer, and military justice system. Refinement of communication skills.

AFS 403. Air Force Policy and Process. 3 Hours.
Transitional issues faced when entering active-duty Air Force. Factors which facilitate transition from civilian to military life.

AH-Administration Hlth Serv Courses

AHS-Allied Health Sciences Courses

AHS 300. Survey of Health Professions. 2 Hours.
Survey of graduate and undergraduate health professions that provide patient care and other services in health care delivery system; designed to assist undergraduate students in career investigation.

AHS 302. Principles of Management in Health Care. 3 Hours.
Basic management concepts; oral & written communication; planning & goal setting; decision-making & problem solving; personnel selection; performance appraisal.

AHS 305. Effective Communications and Professionalism in Health Care. 2 Hours.
Enables students to develop the knowledge, skills, and attitudes needed to perform in a professional, ethical, and competent manner in the health care environment. Topics presented will aid the student in developing and strengthening professional traits and behaviors.

AHS 318. Law for Health Care Professionals. 3 Hours.
Principles of law and U.S. legal system as applied in health care organizations; documentation, privacy, security, and release of health information; liability, consent, and malpractice.

AHS 320. Microcomputer Applications for Health Care Profess. 3 Hours.
Spreadsheet, database, file management, information systems, Internet, and presentation applications in managerial functions. Mandatory attendance at orientation session.

AHS 320. Health Care Systems. 3 Hours.
Overview of U.S. health care system; implications of environmental trends and health care policy on health care organizations; introduction to financing of health care.

AHS 350. Medical Terminology for Health Professionals. 3 Hours.
Systematic study of medical terminology with emphasis on constructing, pronouncing, understanding, and using medical terms. Includes diseases, symptoms, and signs of disease; diagnostic and clinical procedures; and treatment modalities. Mandatory attendance at orientation session.

AHS 360. Statistics for Healthcare Managers. 3 Hours.
Basic descriptive and inferential statistics as applied in managerial processes; computer-based graphic analysis of data; use of computer-based statistical software; application of statistical process control tools. Course also offered via Internet. Quantitative Literacy is a significant component of this course (QEP).

Prerequisites: MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C]

AHS 375. Managerial Epidemiology. 3 Hours.
The course will familiarize students with the methods and applications of managerial epidemiology. It will also equip students with an understanding of the measurement and epidemiologic tools that inform health care management decisions.

Prerequisites: AHS 330 [Min Grade: C]

AHS 401. Organizational Studies in Health Care. 4 Hours.
Behavioral science concepts including leadership, managing change, negotiating and conflict resolution, team building, organizational assessment, marketing, and entrepreneurship.

Prerequisites: AHS 320 [Min Grade: C]; AHS 330 [Min Grade: C] and AHS 320 [Min Grade: C]

AHS 402. Economics for Healthcare Managers. 3 Hours.
Principles of economics of the health care system on the basis of incentives, risk management, asymmetrical information, and moral hazards. Focus on the practical application of economic principles, including supply and demand, market structure and forecasting.

AHS 403. Operations Management in Health Care Organizations. 4 Hours.
Operational functions of mid-level managers including work design and re-engineering; systems theory; development, planning, and analysis; ergonomics and work environment; quality improvement techniques.

AHS 405. Human Resources Management in Health Care Organizations. 4 Hours.
Managerial activities related to job descriptions, recruiting, interviewing, hiring, firing, orientation, benefits, appraisal, discipline, and developing clinical and non-clinical personnel.

Prerequisites: HIM 415 [Min Grade: C](Can be taken Concurrently) or AHS 320 [Min Grade: C] and AHS 330 [Min Grade: C]

AHS 407. Strategic Management in Health Care Organizations. 3 Hours.
Overview of strategic management process; strategic planning in health care organizations from perspective of mid-level manager; emphasis on operational level implementation and control.

Prerequisites: AHS 403 [Min Grade: C]

AHS 409. Personnel Mangment Lng Trm Cre. 1 Hour.
Planning for staffing and staff development of clinical and non-clinical personnel in long term care facilities.

Prerequisites: AHS 405 [Min Grade: C]
AHS 410. Long Term Care Facilities Management. 3 Hours.
Overview of administrative responsibility for physical facilities; environmental safety; emergency preparedness and response; interdependence and functioning of medical, nursing, social, dietary, and other key resident services.

AHS 411. Bio-Psycho-Social Issues of Aging. 3 Hours.
Overview of current gerontological-geriatric information; special needs of the elderly in receiving health care services.

Prerequisites: AHS 330 [Min Grade: C]

AHS 415. Ethics for the Health Professional. 3 Hours.
Overview of major ethical theories; ethical decision making models; application to patients' rights, confidentiality, informed consent, professional relationships, and allocation of scarce resources. Ethics and Civic Responsibility are significant components of this course (QEP).

Prerequisites: AHS 318 [Min Grade: C] and AHS 330 [Min Grade: C]

AHS 416. Financial Management in Health Care Organizations. 3 Hours.
Overview of financial management functions at the departmental level; budgeting and cost analysis for department-level operations and capital expenditures. This course fulfills the QEP requirements in Quantitative Literacy (QL). Prerequisites: Accounting I and AHS 330.

Prerequisites: AHS 330 [Min Grade: C] and AHS 330 [Min Grade: C] and AC 200 [Min Grade: C] and AC 201 [Min Grade: C] or BUS 310 [Min Grade: C]

AHS 417. Financial Management for LTC Administrators. 2 Hours.
Overview of financial management practices and reimbursement issues and methodologies in long term care facilities.

Prerequisites: AHS 421 [Min Grade: C], AHS 416 [Min Grade: C] and AHS 421 [Min Grade: C]

AHS 418. Legal & Regulatory Issues of LTC. 3 Hours.
Governance and administrative responsibilities for compliance with LTC licensure laws, government and accrediting regulations, and facility policies.

Prerequisites: AHS 330 [Min Grade: C]

AHS 420. LTC Resident Care and Quality of Life. 2 Hours.
Planning, managing, and evaluating programs that enhance resident quality of life in long-term care facilities.

AHS 421. Introduction to Long Term Care Administration. 1-3 Hour.
Introduction to the long-term care industry and nursing facility operations through seminars, independent media research, and experiential learning.

AHS 425. Healthcare Reimbursement Methods. 3 Hours.
Review of diverse financial systems within American healthcare, focus on reimbursement methods and payment systems and how they affect providers and payers. Review of major insurance programs, federal health care legislation, legal/regulatory issues, diagnosis and procedure coding systems, and the impact of coding on reimbursement, compliance, and fraud and abuse.

AHS 430. Documentation Requirements in Long Term Care. 2 Hours.
Overview of clinical documentation requirements in long term care facilities, including the Resident Assessment Instrument, Minimum Data Set, and Patient Care Plan. Additional focus on information privacy and security.

Prerequisites: AHS 421 [Min Grade: C]

AHS 432. Continuum of Long Term Care. 3 Hours.
Survey of providers of long term and elder care, including scope of services provided, review of reimbursement methodologies, clientele served, and political issues affecting their operational practices. Permission of Instructor.

AHS 435. Survey of Clinical and Administrative Information Systems. 3 Hours.
Overview of information systems and applications in health care organizations; issues and challenges in system design and implementation.

Prerequisites: AHS 330 [Min Grade: C]

AHS 450. Quality Management in Health Care. 3 Hours.
Concepts of monitoring and evaluating the quality and appropriateness of patient care and services provided in health care organizations; overview of regulatory guidelines and industry standards; current issues in quality measurement and outcomes.

Prerequisites: AHS 330 [Min Grade: C]

AHS 460. Research Methods. 3 Hours.
Use of statistical methodology in health professions research; overview of research methodologies; guidelines for critiquing published research; development of research proposal. Prerequisite: Basic statistics or permission of instructor. Course also offered via internet. Writing is a significant component of this course (QEP).

Prerequisites: (AHS 360 [Min Grade: C] or MA 180 [Min Grade: C] or OM 214 [Min Grade: C] or PY 214 [Min Grade: C])

AHS 480. Health Care Policy and Reform. 3 Hours.
Identification and discussion of health policy issues facing the U.S. and economic implications of health policy and health care reforms over time.

AHS 481. Management Internship/SL. 3.6 Hours.
Capstone course places students in selected healthcare settings supervised by experienced preceptors. The students are exposed to day-to-day managerial functions and participate in actual organizational projects. Students draw upon, synthesize, and apply classroom learning to real life settings in these actual healthcare environments. Activities focus on the development of problem solving, effective communications and research skills. Projects focus on Service Learning and students also explore the culture, ethical issues and community impact of the organization. Prerequisites: AHS 401 and AHS 403 and AHS 405 and AHS 407.

Prerequisites: AHS 480 [Min Grade: C] or AHS 482 [Min Grade: C]

AHS 482. Current Issues Seminar. 3 Hours.
Identification of current issues in health care industry, emphasis on analyzing organizational impact.

Prerequisites: AHS 407 [Min Grade: C]

AHS 483. Long Term Care Manage Intern. 10 Hours.
Supervised experience in managerial functions in selected Long-Term Care health care organizations.

Prerequisites: AHS 401 [Min Grade: C] and AHS 403 [Min Grade: C] and AHS 405 [Min Grade: C] and AHS 407 [Min Grade: C] and AHS 482 [Min Grade: C](Can be taken Concurrently)

ANTH-Anthropology Courses

ANTH 101. Introduction to Cultural Anthropology. 3 Hours.
Cultures of world's peoples; ideas used to explain similarities and differences among human groups. Ethics and Civic Responsibility are significant components of this course (QEP).

ANTH 102. Introduction to Biological Anthropology. 3 Hours.
Biological evolution; interpretation of human fossil record; race; human population genetics and primate behavior.

ANTH 104. Introduction to Peace Studies. 3 Hours.
An overview of concepts and practices related to conflict, social justice, and peace. Students are introduced to theories, terms, analytical skills and tools in terms of peace building and conflict transformation.
ANTH 106. Introductory Archaeology. 3 Hours.
Archaeological methods and theory used to reconstruct and interpret past.

ANTH 107. World Prehistory. 3 Hours.
Main events in evolution of culture from earliest times until advent of cities. Emergence of culture, development of food production, and appearance of states.

ANTH 120. Language and Culture. 3 Hours.
Nonverbal communication; language origins and acquisition; universals; language classification and processes of change; language as expression of cultural values and social structure; beginning componental and structural analysis.

ANTH 123. Comparative Cultures through Films. 3 Hours.
Special topics in cultural anthropology addressed through use of ethnographic films. Culture areas, culture change, and traditional societies in modern world.

ANTH 202. Science Fiction and Anthropology. 3 Hours.
Anthropological concepts in works of science fiction; the place of anthropology in contemporary science fiction literature, film, and television. Topics include culture, language, archaeology and human evolution.

ANTH 204. Food in Antiquity. 3 Hours.
Dietary variation from hunter-gathers to agriculturists based on plant and animal remains from archaeological sites. Culinary practices from ancient texts and pictographic representations.

ANTH 207. Introduction to Egyptian Archaeology. 3 Hours.
This course is a history of the exploration of Egypt emphasizing major archaeological discoveries and how they have shaped our modern perceptions of ancient Egypt. Excavations at important ancient sites such as Thebes and Abydos will be covered in relationship to the overall environmental history of the Nile Valley and Delta. How current excavations reconstruct past settlement patterns, mortuary practices and daily life activities at diverse archaeological sites (Valley of the Kings, Karnak Temple, Tanis) will be discussed.

ANTH 210. Monkeys and Apes. 3 Hours.
Behavior and social organization of humans’ closest living relatives. Living primates and why they behave as they do.

ANTH 211. Human Evolution. 3 Hours.
Human organism’s evolution as systemic whole. Process of human evolutionary change as depicted in behavior and fossil record.

ANTH 222. Prehistory of North America. 3 Hours.
Prehistoric America north of Mexico from terminal Pleistocene to early historic times.
Prerequisites: ANTH 101 [Min Grade: C]

ANTH 225. Mesoamerican Archaeology. 3 Hours.
This course introduces key developments in prehistoric Mesoamerica, from the origins of settled life and agriculture to the Aztec empire encountered by the Spanish. Major civilizations such as the Olmec, Maya, Zapotecs, Teotihuacan, Tula, and the Aztecs provide a historical framework for examining broader developmental processes such as sedentism, the origins of agriculture, the emergence of social complexity, and urbanism.

ANTH 226. Archaeological Field School. 1-6 Hour.
Participation in all phases of excavation, laboratory study, and report preparation. Off campus.

ANTH 231. Archaeology of the Origins of Civilization in Egypt, Mesopotamia, and the Mediterranean. 3 Hours.
Development of complex society in the Fertile Crescent and surrounding lands in Egypt, Mesopotamia, and Mediterranean from origins of agriculture to Alexander the Great.

ANTH 235. Immigration Transnationalism and Diasporas. 3 Hours.
What happens to culture and the social organization of groups after they migrate from one country to another? This course focuses on two possible responses: (1) How immigrants assimilate to the host society through a process of becoming disorganized or uprooted and then reorganizing themselves in a new context, and (2) How immigrants, or transnationals are influenced by their persisting ties to their home countries and elsewhere.

ANTH 236. Religion and Culture in United States. 3 Hours.
It is traditionally claimed that the U.S. is a “Christian Nation,” and yet the nation finds itself home to a wide range of religions and spiritualities. From Hippies and Mormon Polygamists, to Internet Paganism and Self-Help Christianity, many are the ways one can be spiritual, and in this course we seek to understand how religion shapes and is altered by American culture.

ANTH 242. Peoples of World/South America Indians. 3 Hours.
Ethnology of indigenous peoples of South America including ecological adaptation, social organization, religious systems, and culture change. Emphasis on lowland South Americans.

ANTH 244. Peoples of the World: Africa. 3 Hours.
Local and regional African cultures. Geographical, racial, and historical backgrounds; contemporary African social systems.

ANTH 245. Peoples of the World: Mediterranean. 3 Hours.
This course covers both the western part of the Ancient Middle East and the Mediterranean Area, first introducing Neolithic Europe and Turkey/Anatolia (e.g., Catal Huyuk; Stonehenge), but focusing on Bronze Age Greece, the Aegean, and Anatolia: ca. 3000-1200 BCE. This includes an examination of the Minoans and Mycenaeans in the first part of the course (e.g., Knossos; Thera; Mycenae), and a look at the Hittites and Trojans in the second half of the semester (e.g., Hattusas; Troy), culminating with the Trojan War and Sea Peoples ca. 1200 BCE.

ANTH 247. Peoples of the World: Oceania. 3 Hours.
Focus on the varied cultures, peopling and social developments of islands in the Pacific. Major areas (Polynesia, Melanesia, Micronesia) are discussed with an overview of archaeology, linguistics and cultural anthropology in the region.

ANTH 248. Peoples of the World: Latin America. 3 Hours.
Holistic survey of cultures of Latin America from pre-Columbian times to present. Processes of cultural change (including revolution), ethnic group relations, and functioning of contemporary societies.

ANTH 262. Mythbusters! Arch hoaxes, doc. 3 Hours.
This course will provide an in depth examination of a number of known and not-so-well known archaeological hoaxes throughout history, allowing the class to explore the myriad of social, legal, and economic pressures which precipitated such discoveries. The course will explore subjects like the shroud of Turin, Atlantis, the Jesus Tomb, and the curse surrounding the discovery of King Tutankhamen’s tomb in 1922. As part of the course, students will watch and evaluate a number of documentaries for the “truth” behind the story, and will follow ongoing media coverage of major archaeological discoveries.
ANTH 290. Study Abroad: Chilapa, Guerrero, Mexico. 3 Hours.
Orientation to and popular culture in Chilapa; Mexican history and ethnology, regional history and ethnology, and local economy and human ecology.

ANTH 292. Anthropology of Slavery. 3 Hours.
This course is a mixed format including, lectures, student projects, and potential fieldwork. The class will provide a broad cross-cultural perspective on different types of slavery that have existed across the globe (Americas, Africa, the Near East, Oceania) and examine slavery in the American South, especially Alabama. Issues of race, hierarchy, ethnicity, political, economy, religion, ideology, and social relations will be discussed.

ANTH 299. Contemporary Global Issues. 3 Hours.
This course explores anthropological perspectives, applications, and contributions to solving to contemporary world problems including: terrorism, warfare, genocide; global warming and sustainable development; global epidemic disease and new pandemics; torture and human rights abuses; global capitalism, sweatshops, and economic justice; poverty and hunger; illiteracy; child labor and child soldiers; and human population explosion.

ANTH 304. Looking at Earth: Maps Satellite Images and GIS. 3 Hours.
Maps as analytic tools in social, behavioral, and applied sciences. Theory and methods of cartographic representation, aerial and satellite image analysis, and geographic information systems. Principles, practical training in computer methods, and case studies from different regions of the earth. Prerequisite: Basic computer course and introductory course in social science.

ANTH 307. Environmental Archaeology. 3 Hours.
Study of human interaction with the environment in the past through archaeology and related disciplines.
Prerequisites: ANTH 106 [Min Grade: C]

ANTH 309. Egypt in the Age of the Pyramids. 3 Hours.
This course begins with the Prehistoric and Predynastic-Early Dynastic roots of Ancient Egypt, and focuses upon the pyramid building age of the Old through Middle Kingdoms, and concludes with the Second Intermediate Period (i.e., Dynasties 1-17: ca. 3200-1550 BCE). It will focus broadly on the archaeology, history, art, architecture, religion, and literature of this period. It is designed to stand independently of its companion course imperial and Post-imperial Egypt.

ANTH 310. Imperial and Post-Imperial Egypt. 3 Hours.
This course focuses mainly on Egypt's imperial period, spanning the New Kingdom (Dynasties 18-20: ca. 1550-1069 BCE), and concludes with a shorter overview of the post-imperial period of Egypt's encounters with the Kushite (Nubian), Assyrian, Neo-Babylonian, and Persian empires (Dynasties 21-31: ca. 1069-332 BCE). It focuses broadly on the archaeology, history, art, architecture, religion, and literature of this time span and is designed to stand independently of its companion course Egypt in the Age of the Pyramids.

ANTH 318. Anthropology of Development. 3 Hours.
Effects of Western penetration of indigenous societies and role of anthropologists in development projects in Third World.

ANTH 319. Food and Culture. 3 Hours.
This course is designed to present a broad view of the role of food in human culture through time and in a variety of geographic settings, offering students and opportunity to reflect on the cultural meanings of food in human life. Class lectures, assigned readings, and films will be used to enhance each student's understanding of the subject from a cross cultural perspective. We will examine the biological basis of diet, how foodways develop and change, how and why anthropologists study diet, and variations in foodways around the world.

ANTH 320. Comparative Religion. 3 Hours.
The cross cultural study of ritual, religion, the sacred, and the spiritual is unique to the discipline of anthropology (which investigates humans and their culture across space and time). Concepts of the sacred and what we refer to as "religion" can be found in all cultures both past and present. For the purposes of this course the term religion may be viewed broadly as human beliefs and practices associated with supernatural or non-empirical beings and forces, including spirituality, witchcraft, cults, magic, and superstition. The goal of this course is for students to gain a broad understanding of religion cross culturally, to closely examine case studies of particular religious practices in their culture context, to explore theories of religion and their evolution, and to achieve a perspective of cultural relativism and a greater appreciation of human diversity.

ANTH 329. Egypt: Archeological Field Study. 3-6 Hours.
Two week field school in Egypt. Students will visit Egypt old and new, including Islamic Cairo, Coptic churches, the pyramids of Giza, Alexandria, the tombs and temples of Luxor (Valley of the Kings), Aswan (Abu Simbel), and an archaeological excavation. Experience Egyptian folklore through dance and musical performances.

ANTH 330. Nationalism Ethnicity and Violence. 3 Hours.
Social and cultural analysis of ethnicity and nationalist ideologies particularly where these have led to violent confrontations within modern nation-states. Primordialist versus constructionist theories of difference; varying weight to be attributed to political, historical, and cultural factors in study of nationalism; politics of culture versus culture of politics.

ANTH 340. Archeology and History Bible Lands. 3 Hours.
Archaeology and History of the Bible Lands. Examination of region spanning modern Syria, Lebanon, Israel, and Jordan from 10,000-585 BC.

ANTH 351. Anthropology of Human Rights. 3 Hours.
Examination of conceptual, political, and legal aspects of human rights from an anthropological perspective. Topics considered may include: state violence; the history of human rights claims; the opposition of cultural rights and human rights claim; human rights as a form of political discourse; human rights practices in select contemporary settings.

ANTH 353. Primatology. 3 Hours.
Biological, behavior, and distribution of living nonhuman primates. Field studies of old-world monkeys and apes.

ANTH 355. Archaeology of Alabama. 3 Hours.
This course will explore the archaeology of Alabama with an emphasis on current regional research which may include historical archaeology, industrial archaeology, and the archaeology of Native Americans. It may include both field and class room components.

ANTH 357. Anthropology of Gender. 3 Hours.
Roles of women, men, and other genders from a cross-cultural perspective; includes bio-cultural approaches to sex and gender and changing gender roles over time. Course involves substantial writing component in essay examinations and research papers. Writing is a significant component of this course (QEP).
ANTH 360. Ecological Anthropology. 3 Hours.
Interactions among behavioral, technological, organizations, and ideological features of human cultures that serve to adapt societies to their physical environment. 3 hours in ANTH required.

ANTH 361. Kinship and Social Organization. 3 Hours.
Comparative analysis of forms of human social organization; range of kinship and marriage arrangements found in pre-industrial societies; explanations of similarities and differences among kinship systems.

ANTH 365. Economic Anthropology. 3 Hours.
Comparative ethology of economic organizations and processes in non-industrial societies. Precapitalist social settings and transformations of precapitalist economies that have occurred, and are occurring, as result of development and expansion of industrial capitalism.

ANTH 366. Urban Anthropology. 3 Hours.
Human life in cities from cross-cultural perspective; process of urbanization in ancient civilizations, colonial empires, and modern-day Third World.

ANTH 370. Music in World Cultures. 3 Hours.
Characteristics of musical styles in various cultures throughout world. Prerequisites: MU 120 [Min Grade: C]

ANTH 371. Special Topics in Anthropology. 3 Hours.
Special Topics in Anthropology. This is a designed service-learning course integrating academic learning, civic learning and meaningful service to the community.

ANTH 375. Foundations of Symbolism. 3 Hours.
Study of symbolic forms in myth and ritual and overview of theoretical approaches.

ANTH 382. Ancient Egyptian Art and Archaeology. 3 Hours.
This course introduces the Predynastic through Pharaonic periods (ca. 3,500 - 332BCE) of Ancient Egypt, focusing on the Art and Architecture of Ancient Egypt and its southern neighbor and often annexed territory of Nubia. The course includes an examination of Egypt's material resources, quarrying and mining, workshops, artisans, building and sculptural programs, the minor arts, and cross-cultural relations between Egypt and its neighbors in relation to material culture, primarily in the realm of art and architecture. The course aims to cover the overall relationships between Pharaoh's artisans, their commissions (minor to major art and architectural projects), their role in society, and their interactions with and adaptations to other cultures through art and architecture.

ANTH 400. Human Osteology. 3 Hours.
This class focused on the identification of human skeletal remains. As a combined laboratory and lecture course it provides the groundwork for much of the work in biological and forensic anthropology.

ANTH 401. Forensic Anthropology. 4 Hours.
Applied human osteology, emphasizing ability to identify age, sex, and population type of skeletal material. Effects of disease and behavior on bones.

ANTH 411. Advanced Field Archaeology. 6 Hours.
Archaeological field and laboratory techniques, including excavation, surveying, and artifact analysis and description; general problems of archaeological interpretation. Prerequisites: ANTH 101 [Min Grade: C]

ANTH 415. Ethnographic Research Methods. 6 Hours.
Ethnographic Field Methods classroom instruction and practical experience in techniques of ethnographic fieldwork, including participant observation, household surveys, structured and unstructured interviewing, and genealogies.

ANTH 422. Landscape Archaeology. 3 Hours.
The course will cover the techniques and strategies employed by archaeologists to reconstruct past landscape, which involves scientific testing, remote sensing, GIS, survey, excavation and environmental analysis. Examples will be drawn from projects across diverse landscape types in Europe, the Middle East, Africa, Central America and Asia. In-field and laboratory application of techniques will be emphasized.

ANTH 430. Zooarchaeology. 3-6 Hours.
Methods and theories of zooarchaeological research are discussed in this lab/lecture course. Practical experience in processing, identification, and interpretation of animal bone remains from archaeological sites forms a large part of this class Prerequisites: ANTH 106 [Min Grade: C]

ANTH 434. Observing the Earth from Space. 3 Hours.
The course will give students the ability to analyze remotely sensed data from satellite images as part of the newly established Joint Programs for Remote Sensing and Health. Students will learn about the physics and mathematics behind remote sensing. They will also learn about wide range of satellite images and techniques to analyze them via ERDAS Imagine, ER Mapper and other programs. Applications of remote sensing to a variety of fields will form a key component of the class. The course will culminate in a term project involving remote sensing applications to the UAB faculty-led initiatives in health, medicine, geography and anthropology. There will be a weekly lab component of the course.

ANTH 435. Ethnomedicine and Ethnopsychiatry. 3 Hours.
Approaches and contributions of anthropology to study of health, sickness, and healing. Physical environment and human adaptations as key determinants of health systems; culturally defined concepts of sickness, health, and healing; healing as social and physiological activity. Topics may include life stages, medical knowledge among different human groups, impact of culture contact on medical systems, ecological balance and population control, cultural definitions and treatment of abnormal behavior, healers, health and supernatural, social roles of sick, and illness and social control.

ANTH 436. Community Internship. 3-6 Hours.
Application of anthropological approaches to efforts in public or private sector.

ANTH 437. Real World Remote Sensing Applications. 3 Hours.
This course will be offered as a research seminar focusing on real world applications of remote sensing technology. Students will work closely with UAB professors and scientists at NASA’s Marshall Space Flight Center in Huntsville doing original remote sensing research on new satellite datasets. These datasets cover diverse areas including terrorism, global warming, health, anthropology / archaeology, atmospheric studies, urban expansion and coastal management. Students will be responsible for analyzing the satellite imagery and presenting papers to NASA.

ANTH 438. The Conquest of Mexico. 3 Hours.
This course examines the Spanish conquest of Mexico from both Spanish and indigenous perspectives. It further surveys the institutionalization of Spanish control over the fallen Aztec Empire the broader intellectual and material consequences of the conquest.

ANTH 439. Ethnography of Mexico. 3 Hours.
Survey of the incorporation of rural Mexican communities into the country’s developing industrial economy.

ANTH 442. Historical Archaeology. 3 Hours.
This course involves all stages of archaeological filed work at a historical archaeology site. Students will learn survey skills, excavation, mapping, recovery, and post-field analysis techniques.
ANTH 445. Medical Anthropology. 3 Hours.
This course explores the bio-cultural basis of health and cross-cultural variation in illness and healing which includes theoretical bases of medical anthropology, comparative health care systems, and social, political, and economic issues related to health care delivery around the globe.

ANTH 446. Explorers, Mummies and Hieroglyphs. 3 Hours.
This course provides a thematic approach to pharaonic Egypt in general, with one portion covering diverse aspects such as geography, an overview of the history of Dynasties 1-31, society and government, daily religion, mortuary religion, architecture, literature, the military, trade, economy, and daily life. Another portion of the course provides several documentaries regarding early to more recent explorers and Egyptologists (e.g., Belzoni; Champollion; Petrie; Carter; modern Egyptology) with written responses. The third part introduces Egyptian hieroglyphs in eight grammar classes and follow-up user-friendly, in-class exercises, aiming to enable students to translate basic hieroglyphic texts.

ANTH 447. Advanced Peace Studies. 3 Hours.
Intensive exploration of concepts and issues involved in the study of peace, social justice, nonviolence, and conflict resolution. Students will engage in an in-depth examination and critique of anthropological approaches to peace and the associated theoretical and practical problems and applications. ANTH 104 (Introduction to Peace Studies) is recommended before taking this class, but not required.

ANTH 450. Advanced Cultural Anthropology. 3 Hours.
Critical review of theoretical approaches in cultural anthropology.

ANTH 451. Advanced Archaeological Anthropology. 3 Hours.
This course examines the theoretical approaches of 20th century archaeology: historical, processual, and post-processual. This reading intensive seminar is focused on theory and its impact on practice and the development of the subdiscipline of archaeology relative to anthropology.

ANTH 452. Advanced Linguistic Anthropology. 3 Hours.
Historical development of theory and field practice of linguistics; acquisition, sociolinguistics, nonverbal communication, semiotics, and ethnosemantics; applied linguistics.
Prerequisites: ANTH 120 [Min Grade: C]

ANTH 453. Advanced Biological Anthropology. 3 Hours.
Human evolution and primatology: race; human genetics. Tasks performed by physical anthropologists.
Prerequisites: ANTH 102 [Min Grade: D]

ANTH 458. Human Sexuality. 3 Hours.
This course will explore human sexuality and gender from an anthropological perspective, including biological and cultural perspectives, as well as the areas where anthropology meets psychology. The evolution of sexual behavior in humans and in non-human primates will be examined, as well as how sexuality is embedded in socio-cultural context both across and within societies.

ANTH 459. Politics, Drugs and Society in Latin America. 3 Hours.
This course will examine the role of drug production and the drug trade in the economic and political life of Latin American societies. Viewed historically and ethnographically, the course will include coverage of the traditional uses of drugs in indigenous societies as well as the more recent globalization of the industry.

ANTH 460. Historical Ecology. 3 Hours.
This course explores the topic of Historical Ecology and examines the relationship between humans and their environments from the perspectives of history, anthropology, archaeology, ecology, and biogeography.

ANTH 467. Museum Studies. 3 Hours.
This course uses case studies, analysis of topical issues, and problem-based learning exercises to explore the many aspects of museum studies relevant to the administration and management of not-for-profit museums. This course provides an interdisciplinary introduction to museum work.

ANTH 481. Voyage in Anthropology. 6 Hours.
Voyage in Anthropology is a six-hour course that engages students in scientific research, hands-on-learning, teaching, and public outreach. The course includes the development of teaching tools (designed and created by students) and materials used in outreach activities such as the creation of a website, DVDs, posters, and information pamphlets. This course fulfills the QEP requirements in Quantitative Literacy (QL), Ethics and Civil Responsibility (ECR), and Writing. The course is designed for students to synthesize and apply knowledge learned in previous anthropology courses, and to provide research-driven experiences in public and academic communication and outreach (including writing and speaking). Knowledge from previous experiences will contribute to new knowledge and the development of research projects with concrete applications for the public and the Birmingham community.

ANTH 483. Intern in Peace, Justice and Environmental Study. 1-3 Hour.
Individually designed program that places students in local environmental organizations, divisions of local businesses or government, or special projects to gain professional experience in preparation for careers focused on peace, social justice, and/or environment.

ANTH 490. Special Problems in Cultural Anthropology. 3 Hours.
Supervised study of specified topic area; defined problem explored in depth; topics determined by student and instructor interest.

ANTH 492. Special Problems in Archaeology. 3,6 Hours.
Supervised in-depth study of specified topic area in archaeology. Topics determined by student and instructor interest.

ANTH 494. Special Problems in Linguistics. 3 Hours.
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.

ANTH 496. Special Problems in Biological Anthropology. 3 Hours.
Supervised, in-depth study of specified topic area in biological anthropology. Topic determined by student and instructor interest.

ANTH 497. Special Topics in Anthropology. 3 Hours.
Topics vary. See class schedule for topic.

ANTH 498. Honors Thesis Research. 3-6 Hours.
Independent development of research project.

ANTH 499. Directed Reading in Probability and Statistics. 1 Hour.
ARA - Arabic Courses

ARA 101. Introductory Arabic I. 3 Hours.
This course is an introduction to Modern Standard Arabic (MSA). It offers students combined training in not only listening, speaking, reading, and writing in Arabic but also in cross-cultural understanding and communication. Students have the opportunity to read simple, short texts and to develop cultural skills through practicing situational dialogues. Within the classroom, the course emphasizes simple interactive communicative tasks involving teacher-student, student-student, and group interactions; the course additionally fosters extramural engagement with the Arabic-speaking community.

ARA 102. Introductory Arabic II. 3 Hours.
This course is the second part of the introduction to Modern Standard Arabic (MSA). Arabic 102 is built on the assumption that students have already acquired the principles on not only cross-cultural understanding but also of reading and writing the letters of the Arabic language, and of recognizing and producing its symbols and its sounds in a variety of communicative contexts. The course provides a through grounding in all language skills - listening, speaking, reading, and writing - as well as in cultural practices, products, and perspectives. Students will have the opportunity to continue developing basic communicative skills in both spoken and Modern Standard Arabic and to continue interacting in Arabic both in and out of the classroom.

ARA 190. Study Abroad: Arabic. 1-6 Hour.
Approved novice level study abroad program in an Arabic-speaking country. Course of study will vary according to array of approved offerings and student interest. Permission of department chair required.

ARA 201. Intermediate Arabic I. 3 Hours.
This is a continuation of ARA 102. Emphasis is placed on reading authentic Arabic materials and communicative competence. There will be a focus on the meaning of sentences rather than words, which would enable the students to read and speak with more fluency and better comprehension. Students will not only engage in studying authentic Arabic materials (written, audio, and/or video, official forms, etc.), but are also required to evaluate them for others. They will also be guided to function in specific situations where they have to use only the target language to communicate their ideas and then write about them. Additionally, they will be exposed to some particular aspects of the cultures, customs, literary traditions and other artistic expressions of the Arabic-speaking world.

ARA 202. Intermediate Arabic II. 3 Hours.
This course focuses on enhancing students’ linguistic and cultural competence in the Arabic-speaking world. Class activities will include role-playing, individual student presentations and extramural group projects. While the class is focused on content instruction, attention will also be paid to Arabic Language through selected activities that enhance the students’ reading, writing, and conversational skills. Intermediate-high proficiency in reading, writing, listening and speaking Arabic is the targeted outcome.

Prerequisites: ARA 201 [Min Grade: C]

ARA 290. Arabic for Study Abroad. 1-6 Hour.
This study-abroad Arabic course aims at improving students' oral fluency. It will help students develop intermediary conversational skills as they study in total immersion. The emphasis will be on efficient target language production at the intermediate level, as well as an oral and comprehension skills, communicative strategies, and the acquisition of vocabulary relating to a variety of domains. The course content will also include discussion and analysis of current cultural topics. Arabic 290 will be conducted entirely in Arabic.

ARA 299. Directed Readings in Arabic. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Arabic students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Arabic language and culture. Intermediate proficiency in reading, writing, listening and speaking Arabic is the targeted outcome.

ARA 390. Study Abroad: Arabic. 1-6 Hour.
Approved advanced level study abroad program in an Arabic-speaking country. Course of study will vary according to array of approved offerings. Permission of the department chair required.

ARA 399. Directed Readings: Arabic. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Arabic language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Arabic language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Arabic is the targeted outcome. 9 hours in Intermediate Arabic or equivalent and permission of the department chair required.

ARH - Art History Courses

ARH 101. The Art Experience. 3 Hours.
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of art materials and techniques. Study of original works of art in the Birmingham Museum of Art and architecture in metropolitan Birmingham.

ARH 203. Ancient and Medieval Art. 3 Hours.
A survey of Prehistoric, Ancient, Near Eastern, Egyptian, Aegean, Greek, Roman, Hiberno-Saxon, Carolingian, Ottonian, Romanesque, and Gothic art. Explored through writing, lectures and discussion.

ARH 204. Renaissance through Modern Art. 3 Hours.
A Survey of Renaissance, Baroque, Rococo, late Eighteenth, Nineteenth, and Twentieth Century art. Explored through writing, lectures, and discussion. Writing is a significant component of this course (QEP).

ARH 205. African/Native American/Oceanic Art. 3 Hours.
Significant monuments and styles of these tribal cultures.

ARH 206. Survey of Asian Art. 3 Hours.
Art and culture of India, China, and Japan.

ARH 405. African Art. 3 Hours.
African Art.
Prerequisites: ARH 203 [Min Grade: C] or ARH 204 [Min Grade: C]

ARH 407. Art of Rome. 3 Hours.
Covers Ancient Rome, but focuses on Medieval through early Baroque painting, sculpture and architecture. Examines the city of Rome over time. Also considers impact of the papacy on the city and its use of ancient Roman models. ARH 203; ARH 204 recommended but not required.

Prerequisites: ARH 203 [Min Grade: C] and ARH 204 [Min Grade: C]

ARH 409. Egypt in the Age of the Pyramids. 3 Hours.
This course spans the period 5000 B.C through 1550 B.C. (Predynastic and Dynasties 1-17), which encompasses Egypt's pyramid building age. It will focus broadly on the art, archaeology, history, architecture, religion, and literature of this period. It is designed to stand independently of its companion course Imperial and Post-Imperial Egypt.

Prerequisites: ARH 203 [Min Grade: C]
Course Descriptions

ARH 410. Imperial and Post Imperial Egypt. 3 Hours.
This course spans the years of 1550 B.C. to the Ptolemaic-Roman periods, which covers Egypt's glorious imperial era (New Kingdom: Dynasties 18-10) and its decline in Dynasties 21-31, with the rise of other empires and Macedonian and Roman control of Egypt. It focuses broadly on the art, archaeology, history, architecture, religion, and literature of this time span and is designed to stand independently of its companion course Egypt in the Age of the Pyramids.
Prerequisites: ARH 203 [Min Grade: D]

ARH 419. Arts of Death in the Middle Ages. 3 Hours.
The visual culture of death and the afterlife from the Roman catacombs to cadaver tombs, 300-1500.
Prerequisites: ARH 204 [Min Grade: D]

ARH 421. Italian Renaissance Art. 3 Hours.
The visual arts of the Italian Renaissance (11300-1550) in their historic context.
Prerequisites: ARH 204 [Min Grade: C]

ARH 422. The Birth of Painting: Portable Pictures Across Renaissance Europe. 3 Hours.
The emergence of modern easel painting, 1300-1600.
Prerequisites: ARH 204 [Min Grade: C]

ARH 423. Study Abroad: European Art. 3 Hours.
On-site study of art and architecture in Europe.

ARH 424. Northern Renaissance Art. 3 Hours.
The visual arts of the Northern Renaissance (1300-1600) in their historic context.
Prerequisites: ARH 204 [Min Grade: C]

ARH 430. Eighteenth-Century Art in Europe. 3 Hours.
Prerequisites: ARH 204 [Min Grade: C]

ARH 431. European Painting in the Seventeenth Century. 3 Hours.
Painting in Europe from Italian and Spanish Baroque through the Dutch Golden Age.
Prerequisites: ARH 204 [Min Grade: C]

ARH 435. Arts of Power in Early Modern Europe. 3 Hours.
The visual arts in service of kings, popes, and the people, 1300-1700.
Prerequisites: ARH 204 [Min Grade: D]

ARH 440. 19th-Century Art I: Neoclassicism, Romanticism, and Realism. 3 Hours.
Painting, sculpture and graphic arts Europe, 1780-1860.
Prerequisites: ARH 204 [Min Grade: C]

ARH 441. 19th-Century Art II: Impressionism, Post-Impressionism, and Symbolism. 3 Hours.
Painting, sculpture and graphic arts Europe, 1860-1900.
Prerequisites: ARH 204 [Min Grade: C]

ARH 450. American Art to 1900. 3 Hours.
Painting, sculpture, and architecture in the U.S., with an emphasis on 19th Century.
Prerequisites: ARH 204 [Min Grade: C]

ARH 460. Twentieth-Century Art to 1945. 3 Hours.
Painting, sculpture, and architecture in Europe and the United States, 1900-1945.
Prerequisites: ARH 204 [Min Grade: C]

ARH 461. Modern Design. 3 Hours.
History of modern design. Will examine various design disciplines, design theory, well as the relationships between design, fine art, architecture and popular culture.
Prerequisites: ARH 204 [Min Grade: C]

ARH 464. Art Since 1945. 3 Hours.
Painting, sculpture, and architecture in Europe and the United States, 1945 to present.
Prerequisites: ARH 204 [Min Grade: C]

ARH 465. Aspects of Contemporary Art. 3 Hours.
Topics in contemporary art, ca. 1970 to the present. Course offerings will vary from year to year and will study a specific historical moment, medium, theme, or subject.
Prerequisites: ARH 204 [Min Grade: C]

ARH 467. Modern Architecture. 3 Hours.
History of modern architecture, covering examples from the late 18th century to the present and emphasizing the United States.
Prerequisites: ARH 204 [Min Grade: C]

ARH 468. Race and Representation. 3 Hours.
History of 20th-Century African American art in context of contemporary theories of identity and issues of diversity, and in relation to African art. Includes study of objects in the Birmingham Museum of Art. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: ARH 204 [Min Grade: D]

ARH 470. The Art and Culture of China. 3 Hours.
An in-depth survey of the art and culture of China from the Neolithic era through the eighteenth century.
Prerequisites: ARH 206 [Min Grade: C]

ARH 471. Topics in Asian Cinema. 3 Hours.
This course offers students an introduction to a vital aspect of contemporary Asian culture, recognizing that film can be an important focus of contemporary, cultural commentary and critique. The course presumes no prior knowledge of Asia or cinema and its artistic tradition. The goal of the course is to view and discuss, as a class, approximately ten films, emphasizing an understanding of their cultural background and an appreciation of their aesthetic merits as films and cultural settings in Asia. Attendance at weekly screenings is mandatory. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: ARH 206 [Min Grade: C]

ARH 473. Japanese Prints/Printmakers. 3 Hours.
A history of Japanese block prints and printmakers from seventeenth through twentieth centuries.
Prerequisites: ARH 206 [Min Grade: C]

ARH 474. Chinese Painting. 3 Hours.
Painting and painting theory through eighteenth century.
Prerequisites: ARH 206 [Min Grade: C]

ARH 475. Japanese Art. 3 Hours.
Art and culture, Neolithic era through nineteenth century.
Prerequisites: ARH 206 [Min Grade: C]

ARH 477. Art and Architecture of India. 3 Hours.
Explores the visual culture of South Asia from the Indus Valley Civilization until the beginning of British rule in India, ca. 2500 BCE-1700 CE.
Prerequisites: ARH 206 [Min Grade: C]
ARH 478. Buddhist Arts of Asia. 3 Hours.
Study of Buddhist art and architecture in Asia, with an emphasis on context and function of painting, sculpture, and monuments. Will also examine ethical issues surrounding display and preservation of objects and monuments. The specific historical and cultural theme will vary with each course offering. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: ARH 206 [Min Grade: D]

ARH 479. Art & Culture of Asia: Study Abroad. 3 Hours.
This course allows students to become immersed in the art and culture of Asia through direct experience in the field. Focus will primarily be on South Asia but may vary with each course offering to include Nepal, Tibet, and Southeast Asia. Preliminary lectures in Birmingham and significant written assignments required.

ARH 480. Art Criticism and Theory. 3 Hours.
A topics course on subjects in art criticism and theory. The specific focus will vary by instructor and may emphasize either non-Western or Western theories, criticisms, and approaches.
Prerequisites: ARH 204 [Min Grade: C] and ARH 203 [Min Grade: D]

ARH 481. Special Topics: Early Modern Art. 3 Hours.
Special topics in the arts of the Early Modern period in the Western art tradition. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: D] or ARH 204 [Min Grade: D]

ARH 482. Special Topics: Modern Art. 3 Hours.
A special topics course on subjects in the Modern period of the Western tradition, beginning in the later eighteenth century. Specific course topics will vary by semester.
Prerequisites: ARH 204 [Min Grade: C]

ARH 483. Special Topics: Gender and the Visual Arts. 3 Hours.
Topic will vary, depending on instructor. This course will address ways in which gender has affected the history of artistic practice and patronage. It will consider such issues as the gendering of pictorial practice and space, strategies of representing gendered subjects, and the impact of women as patrons of art and architecture.

ARH 484. Special Topics: Contemporary Art. 3 Hours.
Special topics in the arts of the Contemporary period in the Western Art tradition. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: D] or ARH 204 [Min Grade: D]

ARH 485. Special Topics: Museum Studies. 3 Hours.
Museum operation; organization and preparation of exhibitions; cataloging objects in collection; experience with UAB Institute of Visual Art and Birmingham Museum of Art.
Prerequisites: ARH 204 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 486. Special Topics: South Asia. 3 Hours.
Special topics in the arts of South Asia. Subject will vary with each offering.
Prerequisites: ARH 206 [Min Grade: D]

ARH 487. Special Topics: Field Study. 3 Hours.
Trips to prominent museums and galleries in United States or to art centers of foreign countries. Preliminary lectures in Birmingham and significant written assignments required.
Prerequisites: ARH 204 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 488. Special Topics: East Asian Art. 3 Hours.
Special topics in the arts of East Asia. Subject will vary with each offering.
Prerequisites: ARH 206 [Min Grade: D]

ARH 489. Capstone: Contemporary Art Practices. 3 Hours.
This course is the capstone for the B.A. degree in art. Students will conduct research, write about art, and prepare materials needed to pursue a professional career in the arts. The course aims to familiarize students with ongoing theoretical, methodological, and practical issues involved in art making and art historical scholarship. Will include visits to local art institutions, archives, and libraries and guest lectures by professionals in the field. Should be taken at the senior level.
Prerequisites: ARH 204 [Min Grade: C] or ARH 203 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 490. Seminar: Art Theory. 3 Hours.
Seminar in Art Theory. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: C] or ARH 204 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 491. Independent Study. 3-4 Hours.
Project proposed by student and approved by Art History instructor.

ARH 492. Museum/Gallery Internship. 3 Hours.
Through active participation in the daily operations of a museum, gallery, or art space, students will acquire direct working knowledge of a cooperating art institution. Students will be required to work at the institution a minimum of 10 supervised hours per week during the term.

ARH 493. Seminar: South Asian Art. 3 Hours.
Seminar in the arts of South Asia. Subject will vary with each offering.
Prerequisites: ARH 206 [Min Grade: D]

ARH 494. Seminar: East Asia. 3 Hours.
Seminar in the arts of East Asia. Subject will vary with each offering.

ARH 495. Seminar: Early Modern Art. 3 Hours.
Seminar in Early Modern Art. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: D] or ARH 204 [Min Grade: D]

ARH 496. Seminar: Modern Art. 3 Hours.
Seminar in Modern Art. Subject will vary with each offering.
Prerequisites: ARH 204 [Min Grade: D]

ARH 497. Seminar: Contemporary Art. 3 Hours.
Seminar in Contemporary Art. Subject will vary with each offering.
Prerequisites: ARH 204 [Min Grade: D]

ARH 499. Honors Thesis. 3 Hours.
For students accepted into honors program in art history. Directed study in art history, in which student works with a faculty mentor to write an extensive research paper on a topic of the student’s choice. Recommended to be taken at the senior level, the semester prior to graduation. Permission of instructor required. ARH 489 recommended.

ARS-Art Studio Courses

ARS 100. Introduction to Drawing. 3 Hours.
Various media, methods, subject matter, and vocabulary emphasizing contour, gesture, composition, and value using pencil, charcoal, conte’ crayon, and ink.

ARS 101. Two-Dimensional Design. 3 Hours.
Introduction to basic elements and principles of two-dimensional design, stressing problem solving and the development of personal design aesthetic. Also emphasizes understanding of mathematical and conceptual components of form. Quantitative Literacy is a significant component of this course (QEP).
ARS 102. Three-Dimensional Design. 3 Hours.
Basic foundation level exploration of mass, form, volume, and space in the creation of three-dimensional objects. Emphasis on the theories, concepts, materials, techniques, and vocabulary used in the discipline. Instruction to the safe and proper use of various power tools.

ARS 103. Digital Imaging & Design. 3 Hours.
An introduction into the digital means of image capturing, creation, manipulation and research, and the broadcast and output of these files in art and design practice with the use of the Macintosh system and utilities.

ARS 105. Introduction to Drawing II. 3 Hours.
Exploration of media, techniques, and concepts as they relate to drawing from diverse subject matter.
Prerequisites: ARS 100 [Min Grade: C]

ARS 195. Special Topics in Studio Art: Intro (non-art majors). 1-3 Hour.
Specialized introductory studio problems in Studio Art for non-art majors. Subject will vary with each offering.

ARS 200. Beginning Drawing. 3 Hours.
Descriptive, expressive and abstract approaches using variety of media. Emphasis on conceptual understanding of the drawing process and the proper application of a variety of materials and techniques necessary to construct a finished drawing object.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 201. Sketchbook & Idea Development. 3 Hours.
Development of image and idea development through sketchbook development and studio practice.

ARS 210. Beginning Painting. 3 Hours.
Painting in oil, students will focus on the academic approach to observational painting as a means for developing and understanding paint as a language. Issues of content and problem solving will be addressed in assignments toward the end of the semester. May be taken twice for credit.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 220. Beginning Sculpture. 3 Hours.
Introduction to sculptural methods and processes dealing with mass, form, volume, space, and motion in the creation of sculptural objects and/or installations. Emphasis on conceptual understanding of the sculptural process and the proper application of a variety of materials and techniques necessary to construct a finished sculptural work. Instruction in the safe and proper use of various power tools, hand tools, and other equipment.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 230. Beginning Ceramic Sculpture. 3 Hours.
Introduction to the use of clay as sculptural medium. Instruction in all hand-building, mold-making, slip-casting techniques and their sculptural applications. Preliminary exposure to glazing technology and various firing processes.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] (Can be taken Concurrently) and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 240. Beginning Printmaking. 3 Hours.
Investigation of basic Intaglio techniques such as metal plate etching and engraving along with basic printing processes.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 241. Beginning Lithography. 3 Hours.
Investigation of basic lithographic techniques such as stone printing, litho crayon drawing, tusche washes, mono-printing processes.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 250. Introduction to Graphic Design. 3 Hours.
Introduction to the field. Overview of history, process and production of visual communications, with explorations in typography, basic design concepts, and practices.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 252. Introduction to Typography. 3 Hours.
This course is an introduction to the anatomy of letterforms and how they work as symbols to create meaning within the context of graphic design. Course work focuses on the creation of glyphs, symbols, logotypes and typographic compositions to build proficiency and understanding of typography theories and practice.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C]

ARS 260. Intro to Time Based Media. 3 Hours.
Introduction to Time Based media is a fundamental course in the principles of animation and video. The first part of the course serves as an introduction to linear animation. Students will be introduced to timing, sequence, keyframe, and tweening. Demonstration and lecture will be supplemented with screenings of animated works of a varied and diverse nature. The second part of the course covers introductory skills and topics related to video capturing and editing. Students will learn lighting, frame composition, timing, camera position, camera motion, sound, and scenery/location. In addition students will learn the fundamental editing techniques.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 270. Beginning Photography. 3 Hours.
Photography and photographic process including both wet darkroom and digital media. Film development, print techniques, and camera controls are covered in both black and white silver processes as well as in digital print and capture. There is an emphasis on photography as a creative medium covering the aesthetic and artistic modes of photography in the context of its recent developments as well as its traditions and history. A single lens reflex camera for 35-mm film is recommended, check with the department about a limited number of check-out cameras.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 295. Special Topics in Studio Art: Beginning. 1-3 Hour.
Specialized beginning studio problems in Studio Art. Subject will vary with each offering.
Prerequisites: ARS 100 [Min Grade: D] and ARS 101 [Min Grade: D] and ARS 102 [Min Grade: D] and ARS 103 [Min Grade: D] and ARS 105 [Min Grade: D]

ARS 300. Intermediate Drawing. 3 Hours.
Descriptive, expressive, and abstract approaches using variety of media.
Prerequisites: ARS 200 [Min Grade: C]

ARS 302. Figure Drawing. 3 Hours.
Concepts and techniques of drawing in various media from live model.
Prerequisites: ARS 200 [Min Grade: C]
ARS 310. Intermediate Painting. 3 Hours.
Technical, aesthetic, and conceptual issues will be explored using various painting media. Emphasis placed upon developing both an individual aesthetic and a sophisticated, expressive vocabulary with paint. Advisable to repeat course before advancing to Advanced Painting.
Prerequisites: ARS 210 [Min Grade: C]

ARS 320. Intermediate Sculpture. 3 Hours.
Continued exploration and understanding of sculptural methods and processes with a concentration on the conceptual, aesthetic, and technical issues of form and space. Emphasis placed upon developing both an individual aesthetic and sophisticated formal vocabulary for sculptural expression. Advisable to repeat course before advancing to Advanced Sculpture.
Prerequisites: ARS 250 [Min Grade: C]

ARS 330. Intermediate Ceramic Sculpture. 3 Hours.
Continued exploration of clay as a sculptural medium with a concentration on the conceptual, aesthetic, and technical issues specific to the medium. Emphasis placed upon developing both an individual aesthetic and an understanding of the appropriate applications of clay as a sculptural material. Continued understanding of glazing technology and firing processes. Advisable to repeat course before advancing to Advanced Ceramic Sculpture.
Prerequisites: ARS 230 [Min Grade: C]

ARS 335. Intermediate Wheel-Thrown Ceramics. 3 Hours.
Introduction to the use of the potter’s wheel in the production of traditional functional ware and teh creation of sculptural form. Concentration on gaining control of the methodology. Exploration into the functional traditions and contemporary interpretations of the ceramic medium. Preliminary exposure to glazing technology and various firing processes.
Prerequisites: ARS 230 [Min Grade: C]

ARS 340. Intermediate Printmaking. 3 Hours.
Intermediate Intaglio techniques such as color printing processes, along with basic photographic printmaking processes. There will be greater emphasis on how form and content are integrated to form a unified work of art.
Prerequisites: ARS 240 [Min Grade: C]

ARS 341. Intermediate Lithography. 3 Hours.
Techniques will be explored through a hands-on approach. The course will also introduce color processes such as multiple stone color printing, alternative registration and photo-litho techniques. There will be a greater emphasis on how form and content are integrated to form a unified work of art.
Prerequisites: ARS 241 [Min Grade: C]

ARS 342. Experimental Printmaking. 3 Hours.
Investigation of alternative printmaking techniques will be explored through a hands-on approach. This class will focus on transfer techniques and the introduction of digital printmaking processes.
Prerequisites: ARS 103 [Min Grade: C] and (ARS 240 [Min Grade: C] or ARS 241 [Min Grade: C])

ARS 350. Intermediate Graphic Design. 3 Hours.
Type and image explorations in design and design history research. Permission of instructor required.
Prerequisites: ARS 250 [Min Grade: C]

ARS 351. Technical Processes for Graphic Design. 3 Hours.
Comping, presentation skills, and project development. Emphasis on printing technology. Permission of instructor required.
Prerequisites: ARS 103 [Min Grade: C] and ARS 250 [Min Grade: C]

ARS 352. Typography. 3 Hours.
Study of expressive type, symbols, and typographic layout through studio assignments. ARS 103 and ARS 250 permission of instructor.
Prerequisites: ARS 103 [Min Grade: C] and ARS 250 [Min Grade: C]

ARS 355. Interactive Design. 3 Hours.
Concepts and skills in interactive media as applied to web design and animation that focus on graphic design.
Prerequisites: ARS 250 [Min Grade: C]

ARS 360. Intermediate Time Based Media. 3 Hours.
Intermediate time Based Media is a video course in which students continue to advance their video capturing and editing skills. Students will be introduced to alternative and experimental narrative structures. Students will also continue their audio capturing and editing techniques.
Prerequisites: ARS 260 [Min Grade: C]

ARS 361. 3D Computer Modeling. 3 Hours.
3D Computer Modeling is a beginning course in 3D modeling and scene construction in the computer/digital environment. Topics covered include: 3D digital space and form, model and scence building, surface properties, lighting and rendering. Permission of Instructor.

ARS 362. Creative Strategy for Advertising Design. 3 Hours.
Creative concepts and strategy for design of advertising campaigns. Research and presentations.
Prerequisites: ARS 350 [Min Grade: C] and EH 102 [Min Grade: C]

ARS 365. Illustration. 3 Hours.
Studio projects that explore variety of illustration techniques and professional issues.
Prerequisites: ARS 200 [Min Grade: C] or ARS 250 [Min Grade: C] or ARS 260 [Min Grade: C]

ARS 370. Intermediate Photography Level I. 3 Hours.
This course is the first of a two-part intermediate sequence. The course will focus on the mastery of skills that were introduced in Beginning Photography such as camera controls, print quality and photographic imagery. The course will introduce new types of film and papers, it will cover archival toning, night photography, color slide film and hand coloring. There will be an emphasis on improving print quality and understanding natural light.
Prerequisites: ARS 270 [Min Grade: C]

ARS 372. Digital Photographic Imagery. 3 Hours.
Concepts, hardware, and software programs with specific application to various forms of digital photographic manipulation.
Prerequisites: ARS 270 [Min Grade: C]

ARS 373. Special Topics and Techniques in Photography. 3 Hours.
The course material will be determined by the instructor. Examples may include mural printing, documentary photography, the manipulated print, platinum printing, pinhole photography, or view camera construction and use.
Prerequisites: ARS 370 [Min Grade: C]

ARS 374. Lighting and the Photographic Studio. 3 Hours.
The course will begin with the study of natural light and the use of simple tools to control light in the natural environment. Then the course will focus on the use of artificial lights and their use in a studio situation. There will be field trips to local photographic studios.
Prerequisites: ARS 370 [Min Grade: C]
ARS 375. Intermed Photography Level II. 3 Hours.
The second course in the intermediate sequence. This course will introduce students to more advanced photographic materials and techniques. The course will introduce new cameras, film and filters, including medium format and pinhole. Students may use specialized papers and digital print media.
**Prerequisites:** ARS 370 [Min Grade: C]

ARS 376. Color Photography and the Fine Art Digital Print. 3 Hours.
The objective of this course is to learn the techniques of color printing using digital media. The course will begin with the study of color film, scanning and then will introduce digital color print techniques. The course will include the study of both contemporary color photography and photographers and the history of color photography.
**Prerequisites:** ARS 270 [Min Grade: C] and ARS 370 [Min Grade: C]

ARS 385. Book Arts. 3 Hours.
Exploration book arts as a vehicle for creative expression and to use the visual book format to develop personal content and imagery.

ARS 387. Field Study in Art Studio. 3 Hours.
On-site research at art venues such as prominent museums, galleries, and studios, some of which are typically unavailable to the general public, and other related sites either in the United States or in foreign countries. Preliminary meetings in Birmingham, and significant studio and written assignments required.
**Prerequisites:** ARS 200 [Min Grade: C]

ARS 395. Special Topics in Studio Art: Intermediate. 3 Hours.
Specialize studio art problems at the intermediate level. Subject will vary with each offering.
**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 400. Advanced Drawing. 3 Hours.
Emphasis on in-depth projects using expressive approaches to drawing with a variety of media.
**Prerequisites:** ARS 300 [Min Grade: C]

ARS 406. Digital Filmmaking/SL. 3 Hours.
Students will learn computer programs in time-based media. Technical and conceptual issues will be addressed as well as producing a short film based on project.

ARS 407. Ethnographic Filmmaking/SL. 3 Hours.
Students will document and analyze aspects of human social life using film and video. They will develop an understanding of the visual syntax and narrative structure of successful ethnographic and documentary films through discussion and criticism in the classroom as well as through short film projects of their own.

ARS 410. Advanced Painting. 3 Hours.
Individualized coursework allowing personalized course objectives approved by instructor based on previous work. Advisable to take ARS 310 twice before advancing to ARS 410.
**Prerequisites:** ARS 310 [Min Grade: C]

ARS 420. Advanced Sculpture. 3 Hours.
Advanced studies in sculptural methods and processes with an emphasis on in-depth individually generated projects. Advisable to take Intermediate Sculpture twice before taking Advanced Sculpture.
**Prerequisites:** ARS 320 [Min Grade: C]

ARS 430. Advanced Ceramic Sculpture. 3 Hours.
Advanced studies in the use of clay as a sculptural medium with emphasis on in-depth individually generated projects. Advisable to take ARS 330 twice before advancing to ARS 430.
**Prerequisites:** ARS 330 [Min Grade: C]

ARS 435. Advanced Wheel-Thrown Ceramics. 3 Hours.
Advanced studies in the use of the potter’s wheel in the production of traditional functional ware and the creation of sculptural form. Emphasis on in-depth individually generated projects.
**Prerequisites:** ARS 330 [Min Grade: C] and ARS 335 [Min Grade: C]

ARS 440. Advanced Printmaking. 3 Hours.
Advanced Intaglio techniques such as color processes, along with basic photographic printmaking processes.
**Prerequisites:** ARS 340 [Min Grade: C] and ARS 341 [Min Grade: C] or ARS 342 [Min Grade: C]

ARS 441. Advanced Lithography. 3 Hours.
Techniques such as complex color printing processes and basic photographic printmaking processes are explored. Continued emphasis on improving student’s conceptual and technical skills.
**Prerequisites:** ARS 103 [Min Grade: C] and ARS 340 [Min Grade: C] and ARS 341 [Min Grade: C] or ARS 342 [Min Grade: C]

ARS 442. Advanced Experimental Printmaking. 3 Hours.
Investigation of alternative printmaking techniques will be explored through a hands-on approach. The class will focus on transfer techniques and the introduction of digital printmaking processes.
**Prerequisites:** ARS 103 [Min Grade: C] and ARS 340 [Min Grade: C] and ARS 341 [Min Grade: C] or ARS 342 [Min Grade: C]

ARS 450. Advanced Graphic Design. 3 Hours.
Advanced type, layout and image explorations, and design history research. Responsible and ethical design also examined. Ethics and Civic Responsibility are significant components of this course (QEP).
**Prerequisites:** ARS 350 [Min Grade: C] and ARS 352 [Min Grade: C] and ARS 351 [Min Grade: C] or ARS 355 [Min Grade: C]

ARS 451. Advanced Graphic Design Projects. 3 Hours.
Assignments individually designed to strengthen each student’s portfolio. Generally, a student will take on project and create a complete campaign/identity. Visual and verbal presentation skills also emphasized.
**Prerequisites:** ARS 450 [Min Grade: C]

ARS 452. Graphic Design Portfolio. 3 Hours.
Portfolio preparation and presentation. Re-working of some old projects and addition of new. Resume and job interview skills emphasized.
**Prerequisites:** ARS 350 [Min Grade: C]

ARS 454. Multimedia Productions. 3 Hours.
Concepts and skills explored as design/art direction components in collaborative project format. Interrelates with music, theatre, and broadcasting.
**Prerequisites:** ARS 355 [Min Grade: C] and ARS 450 [Min Grade: C] and MC 101 [Min Grade: C]

ARS 455. Advanced Interactive Design. 3 Hours.
Advanced concepts and skills in development of web-page design.
**Prerequisites:** ARS 355 [Min Grade: C] and ARS 450 [Min Grade: C] and MC 101 [Min Grade: C]

ARS 457. Advanced Advertising Design. 3 Hours.
Community-based projects specific to advertising. Portfolio building and presentations.
**Prerequisites:** ARS 357 [Min Grade: C]
ARS 458. Special Topics in Graphic Design. 3 Hours.
An investigation of special topics in graphic design history, theory or practice. Subject to be determined by instructor. Repeatable for different topics.
Prerequisites: ARS 350 [Min Grade: C] and (ARH 464 [Min Grade: C] or ARH 480 [Min Grade: C])

ARS 459. Graphic Design Field Internship. 3 Hours.
Work in approved graphic design office under guidance of field supervisor and Department of Art and Art History instructor.
Prerequisites: ARS 350 [Min Grade: C] and ARS 351 [Min Grade: C]

ARS 460. Advanced Time Based Media. 3 Hours.
Advanced Time based Media is an advanced class in video capturing and editing, and sound capturing and editing. Students will be encouraged to explore more alternative and advanced ways of transmitting their work and expected to establish a visual style and signature.
Prerequisites: ARS 360 [Min Grade: C]

ARS 461. 3D Computer Animation. 3 Hours.
3 D Computer Animation is a beginning course in 3D computer animation and multimedia application. Topics covered include time: time and space in the digital 3D environment, 3D computer animation concepts and techniques and multimedia application.
Prerequisites: ARS 361 [Min Grade: C]

ARS 462. Emerging Technologies. 3 Hours.
Emerging Technologies is intended for advanced students wanting to explore new technologies and software in their artistic practice. This is a topics course and will reflect contemporary technology/software and artistic practice. The course integrates screenings and discussion with production.
Prerequisites: ARS 360 [Min Grade: C]

ARS 473. Special Topics and Techniques in Photography. 3 Hours.
The course material will be determined by the instructor. Examples would be mural printing, documentary photography, the manipulated print, platinum printing, pinhole photography, or view camera construction and use.
Prerequisites: ARS 370 [Min Grade: C] and (ARS 372 [Min Grade: C] or ARS 373 [Min Grade: C] or ARS 374 [Min Grade: C] or ARS 375 [Min Grade: C] or ARS 376 [Min Grade: C])

ARS 474. Lighting and the Photographic Studio. 3 Hours.
The course will begin with the study of natural light and the use of simple tools to control light in the natural environment. Then the course will focus on the use of artificial lights and their use in a studio situation. There will be field trips to local photographic studios.
Prerequisites: ARS 370 [Min Grade: C] and (ARS 372 [Min Grade: C] or ARS 373 [Min Grade: C] or ARS 374 [Min Grade: C] or ARS 375 [Min Grade: C] or ARS 376 [Min Grade: C])

ARS 475. Advanced Photography. 3 Hours.
This course will focus on the mastery of skills that were introduced in Intermediate Photography including the medium format camera work, large scale printing, new films and materials.
Prerequisites: ARS 370 [Min Grade: C] and (ARS 372 [Min Grade: C] or ARS 373 [Min Grade: C] or ARS 374 [Min Grade: C] or ARS 375 [Min Grade: C] or ARS 376 [Min Grade: C])

ARS 476. Color Photography and the Fine Art Digital Print. 3 Hours.
The objective of this course is to learn the techniques of color printing using digital media. The course will begin with the study of color film, scanning and then will explore digital color print techniques. The course will include the study of both contemporary color photography and photographers and the history of color photography.
Prerequisites: ARS 370 [Min Grade: C] and (ARS 372 [Min Grade: C] or ARS 373 [Min Grade: C] or ARS 374 [Min Grade: C] or ARS 375 [Min Grade: C] or ARS 376 [Min Grade: C])

ARS 478. Photography Internship. 3 Hours.
This course will provide students with direct working knowledge with the field of professional photography in the Birmingham area through a program of internships at cooperating institutions, studios, and businesses. The student will be required to work at the cooperating agency a minimum of 16 supervised hours per week during the term. Permission of instructor required.

ARS 479. Studio Internship in Photography. 3 Hours.
This course will provide students with direct working knowledge with the field of professional photography in the Birmingham area through a program of internships at cooperating institutions, studios, and businesses. The student will be required to work at the cooperating agency a minimum of 16 supervised hours per week during the term. Permission of instructor required.

ARS 480. Practicum in Art Studio Management. 3 Hours.
This course is designed to familiarize the student with the art studio-teaching environment in both technical and conceptual aspects. The student will assist the faculty member and learn about maintenance and operation of the lab, including learning more detailed equipment or chemical information than may be available in a class. The student may assist in class demonstrations or beginning level classes in order to gain exposure to teaching art studio.

ARS 487. Field Study in Art Studio. 3 Hours.
On-site research at art venues such as prominent museums, galleries, and studios, some of which are typically unavailable to the general public, and other related sites either in the United States or in foreign countries. Preliminary meetings in Birmingham, and significant studio and written assignments required.
Prerequisites: ARS 200 [Min Grade: C]

ARS 488. Seminar in Time Based Media. 3 Hours.
Specialized advanced studio problems in time based media.
Prerequisites: ARS 260 [Min Grade: C]

ARS 489. Professional Artist Seminar. 3 Hours.
Capstone for the B.F.A. degree in art for art studio. Students will explore and develop skills for beginning and managing career as a professional artist. Will include projects such as designing a portfolio and website, writing the artist statement, and theorizing, promoting, and marketing artwork. Advisable to take prior to the semester of graduation.

ARS 490. Independent Advanced Study in Studio Art. 1-9 Hour.
May be repeated for credit.

ARS 491. B.F.A. Exhibition. 3 Hours.
B.F.A. students plan and mount exhibition of work during final year. Graphic design students may prepare public portfolio presentation instead of exhibition.
ARS 492. Studio or Gallery Internship. 3 Hours.
This course will provide students with direct working knowledge of the studio arts through an internship at cooperating studios, institutions, and businesses specializing in specific disciplines in the visual arts. The student will be required to work at the agency a minimum of 16 supervised hours per week during the term.

ARS 493. Art Conservation Internship. 3 Hours.
Advanced independent study with direct working knowledge of the studio arts with qualified Art Conservation professionals.

ARS 495. Advanced Special Topics in Studio Art. 3 Hours.
Specialized advanced studio problems with permission of the instructor.

AS-American Studies Courses

AS 201. Studies in American Culture. 3 Hours.
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other "texts" from art, music, industrial and technological developments, folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society, including Native Americans, African American, immigrants and women.

AS 202. Studies in American Culture. 3 Hours.
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other texts from art, music, industrial and technological developments, and folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society, including Native Americans, African Americans, immigrants, and women.

AS 301. Studies in American Culture. 3 Hours.
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other texts from art, music, industrial and technological developments, and folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society, including Native Americans, African Americans, immigrants, and women.

AS 401. Senior Seminar in American Studies. 3 Hours.
Topics of national and regional interest from any discipline but sufficiently broad to allow focus on specific intellectual problems using analytical skills and interdisciplinary methods learned in Core Curriculum courses, required elective courses, and chosen major. Should be taken during senior year.

Prerequisites: AS 201 [Min Grade: D] and AS 202 [Min Grade: D]

ASEM-Adv Safety Engineering Courses

ASEM 461. Occupational Health & Safety Management Systems. 3 Hours.

AST-Astronomy Courses

AST 101. Astronomy of the Universe. 3 Hours.
Survey of the universe of matter and energy. Interpretation of observations to develop a self-consistent view of the universe, basic physical laws and structures, cosmic history and evolution. Quantitative Literacy is a significant component of this course (QEP).

AST 102. Astronomy of Stellar Systems. 3 Hours.
Mechanisms and processes of universe and interrelationships of systems, including nature of stars and galaxies: formation, interior processes, including energy generation, evolution, and galaxies as systems. Lecture and laboratory. Quantitative Literacy is a significant component of this course (QEP). Requires concurrent enrollment in AST 112 laboratory.

AST 103. Astronomy of the Solar System. 3 Hours.
Descriptive and interpretive approach to solar and interplanetary phenomena, comets, and cometary/meteor relationships, asteroids and planetesimals, planetary surfaces, atmospheres, and interior structures. Physical law governing the solar system and quest for understanding its history and evolution, including formation. Lecture. Requires concurrent enrollment in AST 113 laboratory.

AST 105. Extraterrestrial Life. 3 Hours.
Interdisciplinary treatment (astronomy, chemistry, biology, planetary science, communications, and information sciences) of the universe as habitat, cosmic chemistry of molecules and evolution, environmental requirements, origin and occurrence of life, search for evidence, intelligence, communication, and contact. Lecture and laboratory. Concurrent enrollment in AST 115 laboratory required.

AST 111. Astronomy of the Universe Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 101. Quantitative Literacy is a significant component of this course (QEP). Must take with AST 101 to receive credit.

Prerequisites: AST 101 [Min Grade: D] (Can be taken Concurrently)

AST 112. Astronomy of Stellar Systems Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 102. Quantitative Literacy is a significant component of this course (QEP). Must take with AST 112 to receive credit.

Prerequisites: AST 112 [Min Grade: D] (Can be taken Concurrently)

AST 113. Astronomy of the Solar Systems Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 103. Must take AST 103 to receive credit.

Prerequisites: AST 103 [Min Grade: C] (Can be taken Concurrently)

AST 115. Extraterrestrial Life Laboratory. 1 Hour.
Laboratory experience illuminates topics presented in AST 105. Must take AST 105 to receive credit.

Prerequisites: AST 105 (Can be taken Concurrently)

Advising Courses

ADV 101. Intro to Academic Advising I. 0 Hours.
An online environment for first term freshmen students to support your academic advising relationship with tools to complete advising assignments, define your interests and goals, discuss your degree requirements, review your educational plan, and clarify your career goals.
ADV 201. Academic Adv: 1st term Soph. 0 Hours.
An online environment for first term sophomore students to support your academic advising relationship with tools to complete advising assignments, define your interests and goals, discuss your degree requirements, review your educational plan, and clarify your career goals.

ADV 301. Academic Adv: Juniors. 0 Hours.
An online environment for junior students to support your academic advising relationship with tools to complete advising assignments, define your interests and goals, discuss your degree requirements, review your educational plan, and clarify your career goals.

ADV 401. Academic Advising: Seniors. 0 Hours.
An online environment for senior students to support your academic advising relationship with tools to complete advising assignments, define your interests and goals, discuss your degree requirements, review your educational plan, and clarify your career goals.

Alabama System Cooperative Exc Courses
ACX 120. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 121. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 122. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 140. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 141. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 142. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 220. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 221. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 222. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 240. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 241. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 242. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 320. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 321. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 322. Co-op Exch: University of Alabama. 3-6 Hours.
ACX 340. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 341. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 342. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 420. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 421. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 422. Co-op Exch: University of Alabama. 1-6 Hour.
ACX 440. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 441. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.
ACX 442. Co-op Exch: University of Alabama in Huntsville. 1-6 Hour.

Anthropology Courses
ANT 340. Arch and Hist Bible Lands. 3 Hours.
Archaeology and history of the Bible Lands. Examination of regions spanning modern Syria, Lebanon, Israel and Jordan from 10,000-585 BC.

BMD-Biomedical Sciences Courses
BMD 150. Introduction to the Biomedical Sciences. 1 Hour.
Introduction to career paths within the Biomedical Sciences. Topics will address student needs and interests and current trends in the Biomedical Sciences. Emphasis will be placed on developing an individualized educational plan based on a student’s academic and professional interests.

BMD 201. Contemporary Issues in Biomedical Sciences. 1 Hour.
A survey of current policy topics and industry trends in biomedical sciences, health, and medicine.

BMD 202. Survey of the Biomedical Sciences Literature. 1 Hour.
Techniques for searching, retrieving, reading, and analyzing the expert information used by biomedical researchers and health professions practitioners.

BMD 300. Laboratory Techniques in Biotechnology I. 2 Hours.
Basic laboratory techniques in biotechnology utilizing a lab notebook, basic lab instruments, and making solutions. Basic molecular biology and mammalian cell culture techniques used in studying gene regulation.
Prerequisites: CH 117 [Min Grade: C] and CH 118 [Min Grade: C]

BMD 310. Clinical Anatomy and Histology. 4 Hours.
Exploration of the functional anatomy of the human body through gross and microscopic studies of cells, tissues, and organ systems; survey of body systems; correlations between the structures and functions of the body’s various systems; association of major embryonic developmental events with functional gross anatomy.

BMD 315. Clinical Physiology and Pharmacology for Health Professions I. 4 Hours.
Basic concepts of physiology and pharmacology related to human organ systems and drug categories; human physiological principles and their application to pharmacology; membrane physiology, muscle physiology, physiology of the autonomic nervous system and the cardiovascular system; application of physiologic principles to drug pharmacokinetic and pharmacodynamics models.

BMD 317. Clinical Physiology and Pharmacology for Health Professions II. 4 Hours.
Basic concepts of physiology and pharmacology related to human organ systems and drug categories; human physiological principles and their application to pharmacology; renal, respiratory, gastrointestinal and endocrine systems; application of physiological principles to drug pharmacokinetic and pharmacodynamics models.
Prerequisites: BMD 315 [Min Grade: C]

BMD 320. Survey of Cell Biology for Health Professions. 3 Hours.
Molecular and cellular biosciences from a highly-integrated systems perspective; principles of eukaryotic cell structure and function, macromolecules, gene expression, signaling, division, differentiation, energy transformation and metabolism in cells; endocytosis, intramembrane transport, protein targeting, organelle biosynthesis, protein sorting, exocytosis, cell shape, motility, and cell-to-cell interaction; signal transduction processes and cellular functions required for cell growth and programmed cell death.

BMD 330. Clinical Microbiology for Health Professions. 3 Hours.
Clinically-based study of bacteriology, parasitology, mycology, and virology and the human host response to each; mechanisms of microbial pathogenicity and complex interactions with the host that produce symptoms of disease.
Prerequisites: BMD 320 [Min Grade: C]
BMD 380. Research Methods and Scientific Literacy for the Biomedical Sciences. 3 Hours.
Introduction to basic research methodology; review of statistical methods in health professions research. Emphasis will be given to preparing students to critically evaluate medical and scientific literature as well as web-based materials.

BMD 400. Laboratory Techniques in Biotechnology II. 2 Hours.
Laboratory techniques used in biotechnology, including cloning genes into an expression vector; transforming into E. coli; and transfection into mammalian cells for study of gene regulation and expression.
Prerequisites: BMD 300 [Min Grade: C]

BMD 410. Clinical Biochemistry for Health Professions. 3 Hours.
Current concepts of human biochemistry and molecular biology; protein structure and function, enzymes, intermediary metabolism, biosynthesis of lipids, and utilization of lipids; special emphasis on the molecular basis of inherited genetic diseases, acquired diseases, and clinically-related biochemistry.

BMD 420. Pathophysiology for Health Professions. 4 Hours.
Problem-oriented study of general disease processes and the major subdivisions of general pathophysiology: cellular adaptations, tissue injury and renewal, neoplasia, environmental and nutritional pathophysiology, and pediatric disorders; cellular alterations and inflammation, genetic, immunological, nutritional and circulatory disorders; effects of infection, chemical and physical agents, blood and vascular diseases, neoplasia and aging as they apply to selected organ systems.
Prerequisites: BMD 317 [Min Grade: C]

BMD 430. Clinical Immunology for Health Professions. 3 Hours.
Basic immunology and the fundamental principles relating to the immune response in normal and disease states; antigens, antibodies, cells and structures of the immune system; process of immunity, allergies, transplantation and diseases; emphasis on the genetics, mechanisms, and regulation of the immune system in human health and disease.
Prerequisites: BMD 320 [Min Grade: C]

BMD 475. Capstone Experience in the Biomedical Sciences. 4 Hours.
Mentored capstone project to explore an area of student interest demonstrating curriculum integration. The capstone project should culminate in a formal scholarly work. Senior Standing required.

BMD 490. Directed Readings in Biomedical Sciences. 1-3 Hour.
Directed readings and/or literature review under the direction of a faculty member. Approval of faculty sponsor and program director required.

BMD 495. Practicum in Biomedical Sciences. 1-6 Hour.
Course combines the practical workplace experience gained through an internship or service learning activity with a seminar component to guide reflective assessment of the total experience. Approval of faculty sponsor and program director required.

BMD 497. Directed Biomedical Sciences Research Studies. 1-6 Hour.
Students will conduct a field, laboratory, or literary study project culminating in a formal paper and/or presentation as directed by the supervising instructor. Approval of faculty sponsor and program director required.

BME-Biomedical Engineering Courses

BME 011. Undergraduate Coop/Internship in BME. 0 Hours.
Engineering workplace experience in preparation for the student’s intended career.

BME 201. Engineering in Biology. 3 Hours.
Application of engineering to the study of biology on the cellular and molecular level. Engineering solutions in genomics, proteomics, and nanotechnology to investigate cellular and molecular process.
Prerequisites: BY 123 [Min Grade: C] and PH 222 [Min Grade: C] (Can be taken Concurrently) and BY 210 [Min Grade: C] (Can be taken Concurrently)

BME 301. Biomaterials. 3 Hours.
Wide range of materials used for biomedical applications. Physical, chemical and mechanical properties of biomaterials.
Prerequisites: MSE 280 [Min Grade: C] and BME 210 [Min Grade: C]

BME 311. Biomaterials for Non-Majors. 3 Hours.
Wide range of materials used for biomedical applications. Physical, chemical and mechanical properties of biomaterials.
Prerequisites: MSE 280 [Min Grade: C]

BME 312. Biocomputing. 3 Hours.
A survey course in practical computational techniques used in biomedicine.
Prerequisites: MA 260 [Min Grade: C] (Can be taken Concurrently) MA 260 [Min Grade: C] (Can be taken Concurrently) and BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] and MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]

BME 313. Bioinstrumentation. 3 Hours.
An introduction to instrumentation used to make biological and physiological measurements. Techniques include acquisition and analysis of bioelectric signals and several imaging modalities.
Prerequisites: EE 312 [Min Grade: C] and MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]

BME 333. Biomechanics of Solids. 3 Hours.
Application of mechanics of solids principles to biomedical engineering problems; stress-strain of bone; viscoelasticity and constitutive equations of tissues; mechanics of the cell; introduction of molecular mechanics. Lecture and laboratory.
Prerequisites: ME 215 [Min Grade: C] and MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]

BME 340. Bioimaging. 3 Hours.
Provides an overview of diagnostic imaging examining the major imaging modalities such as X-Ray/CT, Nuclear Imaging, Ultrasound, and Magnetic Resonance and in vivo molecular imaging approaches. Discusses physical principles of image formation, image interpretation and patient safety.
Prerequisites: BME 210 [Min Grade: C] and EE 312 [Min Grade: C] (Can be taken Concurrently) and MA 227 [Min Grade: C] and (MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])

BME 350. Biological Transport Phenomena. 3 Hours.
Basic mechanisms and mathematical analysis of transport processes with biological and biomedical applications. Analysis flow, transport and reaction processes for biological fluids and biological molecules with applications towards development of artificial organs, drug delivery systems and tissue engineering products.
Prerequisites: PH 222 [Min Grade: C] (Can be taken Concurrently) and BME 210 [Min Grade: C] (Can be taken Concurrently) and BY 409 [Min Grade: C] (Can be taken Concurrently) and MA 227 [Min Grade: C] and MA 252 [Min Grade: C] (Can be taken Concurrently) or EGR 265 [Min Grade: C] (Can be taken Concurrently) and ME 215 [Min Grade: C] (Can be taken Concurrently)

BME 401. Undergraduate Biomedical Engineering Seminar. 1 Hour.
Undergraduate seminar.
BME 408. Biofluids. 3 Hours.
Application of fluid mechanics in blood flow in the circulatory system; cardiovascular fluid mechanics, wall shear stress and the development of atherosclerosis, viscoelastic behavior of the arteries, Non-Newtonian character of blood.
Prerequisites: BME 350 [Min Grade: C] and (CE 220 [Min Grade: C] or BME 333 [Min Grade: C])

BME 417. Engineering Analysis. 3 Hours.
Solutions to engineering problems involving ordinary and partial differential equations; Laplace transform, power series, Bessel functions, Legendre polynomials, Fourier series, Fourier integral and transform, Sturm-Liouville and separation of variables.
Prerequisites: MA 227 [Min Grade: C] and (MA 252 [Min Grade: D] or EGR 265 [Min Grade: D])

BME 420. Implant-Tissue Interactions. 3 Hours.
An overview of implant biocompatibility including tissue histology, histopathology of implant response and the regulatory process for medical devices. Emphasis placed on ethical issues related to design, development, and implementation of biomedical implants. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: BME 310 [Min Grade: C] or BME 311 [Min Grade: C]

BME 423. Living Systems Analysis. 3 Hours.
Basic concepts and techniques of measurement processing and analysis of data from living systems. Statistics, analysis of variance and regression analysis. Emphasis is placed on writing lab reports in a style similar to research papers. BME 423L must be taken concurrently. Writing is a significant component of this course (QEP).
Prerequisites: BME 312 [Min Grade: C]

BME 423L. Living Systems Analysis Laboratory. 0 Hours.
Labs include blood flow data acquisition and analysis, implant biocorrosion testing, evaluation and analysis of cell proliferation, and apoptosis. The laboratory component of BME 423 and must be taken concurrently.

BME 435. Tissue Engineering. 3 Hours.
Principles underlying strategies for regenerative medicine such as stem-cell based therapy, scaffold design, proteins or genes delivery, roles of extracellular matrix, cell-materials interactions, angiogenesis, tissue transplantation, mechanical stimulus and nanotechnology.
Prerequisites: BME 310 [Min Grade: C] or BME 311 [Min Grade: C]

BME 443. Medical Image Processing. 3 Hours.
Fundamental topics of medical image processing to practical applications using conventional computer software.
Prerequisites: PH 222 [Min Grade: C] and EE 312 [Min Grade: C] and MA 227 [Min Grade: C] and (MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])

BME 445. Biomedical Optics. 3 Hours.
Prerequisites: PH 222 [Min Grade: C] and MA 260 [Min Grade: C]

BME 446. Principles of MRI. 3 Hours.
Technological fundamentals of NMR imaging and applications. Physical fundamentals, MR imaging techniques, and clinical role of MR imaging.
Prerequisites: MA 260 [Min Grade: C] and PH 222 [Min Grade: C] and MA 227 [Min Grade: C] and (MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])

BME 450. Computational Neuroscience. 3 Hours.
This course examines the computational principles used by the nervous system. Topics include: biophysics of axon and synapse, sensory coding (with an emphasis on vision and audition), planning and decision-making, and synthesis of motor responses. There will be an emphasis on systems approach throughout. Homework includes simulations.
Prerequisites: BME 312 [Min Grade: C]

BME 461. Bioelectric Phenomena. 3 Hours.
Quantitative methods in electrophysiology of neural, cardiac, and skeletal muscle systems.
Prerequisites: PH 222 [Min Grade: C] and BME 312 [Min Grade: C]

BME 471. Continuum Mechanics of Solids. 3 Hours.
Matrix and tensor mathematics, fundamentals of stress, momentum principles, Cauchy and Piola-Kirchoff stress tensors, static equilibrium, invariance, measures of strain, Lagrangian and Eulerian formulations, Green and Almansi strain, deformation gradient tensor, infinitesimal strain, constitutive equations, finite strain elasticity, strain energy methods, 2-D Elasticity, Airy Method, viscoelasticity, mechanical behavior of polymers.
Prerequisites: (CE 220 [Min Grade: C] or BME 333 [Min Grade: C]) and MA 227 [Min Grade: C] and (MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])

BME 480. Biomolecular Modeling. 3 Hours.
Computational methods to understand molecular mechanisms of normal function and disease related biological phenomena. Fundamentals of structural biology: genetic sequence to protein structure and function, nucleic acid membrane structure and function. Major techniques and their principles and algorithms for biomolecular modeling including molecular dynamics. Monte Carlo simulations, and electrostatics. Laboratories and projects will provide students hands-on experience in using different software packages such as VMD, GROMACS, and APBS. Lecture and laboratory.
Prerequisites: BME 312 [Min Grade: C] and BME 210 [Min Grade: C] and CH 117 [Min Grade: C]

BME 489. Undergraduate Research in Biomedical Engineering. 0 Hours.
Undergraduate research experiences in biomedical engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C]) or BME 333 [Min Grade: C]; or EGR 200 [Min Grade: C]; or MA 125 [Min Grade: C]; or PH 221 [Min Grade: C]; or EGR 301 [Min Grade: C]; or MA 260 [Min Grade: C]

BME 490. Special Topics in Biomedical Engineering. 3 Hours.
Special Topic in Biomedical Engineering.

BME 491. Individual Study in Biomedical Engineering. 1-6 Hour.
Individual Study in Biomedical Engineering.

BME 494. Honors Research I. 1-3 Hour.
Research experiences for undergraduates enrolled in the departmental honors program. The student should write a proposal and make a presentation based on the proposal.
Prerequisites: EGR 301 [Min Grade: C]

BME 495. Honors Research II. 1-3 Hour.
Research opportunities for undergraduate students in the Biomedical Engineering Honors Program. Research areas include cardiac electrophysiology, brain imaging, biomedical implants, and tissue engineering.
Prerequisites: BME 494 [Min Grade: C]

BME 496. Biomedical Engineering Honors Seminar. 1 Hour.
Must be enrolled in an Honors Program.
BME 498. Capstone Dsgn I Prod Dev. 3 Hours.
Design and development of medical-products. Through experiential learning, students go through the early phases of engineering design innovation for medical products, starting with clinical immersion to determine a critical health-care need. Engineering students work in multi-disciplinary teams that include students from the School of Business to develop design concepts for both a client-based prototype and a commercializable version. Designs take into account client needs as well as legal, regulatory, and marketing requirements. Business ethics are also covered. Emphasis is placed on communication in both oral and written format to targeted audiences. This course fulfills the QEP requirements in Quantitative Literacy (QL) Ethics and Civic Responsibility (ECR), and Writing.
Prerequisites: BME 310 [Min Grade: C](Can be taken Concurrently) and BME 312 [Min Grade: C](Can be taken Concurrently) and BME 313 [Min Grade: C](Can be taken Concurrently) and BME 333 [Min Grade: C](Can be taken Concurrently)
BME 498L. Senior Design and Product Development Laboratory. 0 Hours.
Lab component for BME 498 Senior Design Product Development. Laboratory activities include break-out sessions for team discussions (Problem definition and brainstorming of solutions), training and use of computer design software (Creo, CES Edupak, ABAQUS), and machine shop training for prototype development. Must be taken concurrently with BME 498.
BME 499. Capstone Design II. 3 Hours.
Capstone design project; a continuation of BME 498. Through experiential learning, student teams consisting of engineering and business students complete the engineering design process for their client-based prototype incorporating engineering standards and realistic constraints. Student teams develop a business plan to present to potential business partners and product development teams from established companies. Additional skills learned in this part of the design process include: development of business proposals, project planning and scheduling, project execution and resource scheduling, communication of design, and interim and final design reviews. Emphasis is placed on communication of design and design justification in both an oral and written format to targeted audiences. This course fulfills the QEP requirements in Writing.
Prerequisites: BME 498 [Min Grade: C] and ME 102 [Min Grade: C]
BME 499L. Capstone Design II Lab. 0 Hours.
Exposure to engineering skills common to all senior design projects. Students working in teams solicit input from clients and instructions. The laboratory component of BME 499 and must be taken concurrently.

BMG-Biochem Molec Genetics Courses

BPY-Biophysical Sciences Courses

BST-Biostatistics Courses

BT-Biotechnology Courses

BUS-Business Courses

BUS 101. Introduction into Business. 3 Hours.
This course will enable entering students to understand the breadth of business opportunities and careers as well as assist in their transition to college and the Collat School of Business through the inclusion of the Freshman Year Experience (FYE).

BUS 102. Business Foundations. 3 Hours.
This course will enable students to understand the types of business careers available, various functions of business and the culture within the business discipline. Should be taken if a FYE course has been completed in another school or college. Consult Collat School of Business Advisor to determine requirement.

BUS 110. Essentials of Financial Literacy. 3 Hours.
An introductory course dealing with the mathematics of money and financial literacy. This course will cover such topics as simple and complex interest, taxes, consumer finance, retirement plans, insurance and risk management, cash flows, payroll and inventory.

BUS 300. Business Honors Research Methods. 3 Hours.
First of three required courses for students participating in the Collat School of Business Honors Program. Course provides student with an overview of leadership literature and with necessary research, writing and communication skills for successful participation in the Collat School of Business Honors Program.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

BUS 301. Business Honors Reading Seminar. 1 Hour.
This course will facilitate development of an acceptable Business Honors Thesis/Project Proposal to be submitted to the Collat School of Business Honors Committee by exposing students to a selection of books and periodicals that are not typically assigned in other courses. Book selections will vary from semester to semester. Students will read, discuss, and write a review of each assigned work. Prq: Acceptance into a UAB Honors Program or permission of instructor. May be repeated with permission of Honors Program Director.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

BUS 310. Accounting and Finance for Nonbusiness Majors. 3 Hours.
An introduction to accounting, financial reporting and the basic principles of business finance. Not open to majors in the Collat School of Business.
Prerequisites: (BUS 102 [Min Grade: C] and GPAT and GPAO 2.00) or (BUS 102 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

BUS 311. Creating & Delivering Customer Value. 3 Hours.
An introduction of managerial and marketing principles used to create and deliver customer value in organizations.
Prerequisites: (GPAT and GPAO 2.00 and BUS 102 [Min Grade: C]) or (GPAT and GPAO 2.00 and BUS 102 [Min Grade: C]) or BUS 101 [Min Grade: C]

BUS 350. Business Communications. 3 Hours.
Review of grammar and organization with emphasis on conventions, formats, and style of written business communication. Relies on both in and out of class writing assignments, research methods and analysis, and collaborative writing. Writing is a significant component of this course (QEP).
Prerequisites: (EH 102 [Min Grade: C] and GPAT and GPAO 2.00) or (EH 102 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

BUS 400. Business Honors Seminar. 3 Hours.
This course will facilitate completion of an accepted Business Honors Thesis/Project Proposal. Students conduct independent research and present work in progress. Acceptance to the Collat School of Business Honors Program required.
Prerequisites: (BUS 300 [Min Grade: C] and GPAT and GPAO 2.00) or (BUS 300 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
BUS 410. Integrating Business Functions. 3 Hours.
Course integrates various elements that impact the success of business enterprises. Not open to majors in the Collat School of Business.
Prequisites: (GPAT and GPAO 2.00 and BUS 310 [Min Grade: C] and BUS 311 [Min Grade: C]) or (GPAA 2.00 and GPAO 2.00 and BUS 310 [Min Grade: C] and BUS 311 [Min Grade: C])

BUS 450. Strategic Management Capstone Experience. 3 Hours.
Senior seminar integrating functional business fields of accounting, economics, finance, information systems, management, marketing, production policy and decision making. This course is writing intensive and students must demonstrate an ability to write to appropriate audiences and incorporate pertinent external sources. Strong emphasis on ethical reasoning and decision-making and relating material to contemporary business events and issues. Must be senior in last term.
Prequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAO 2.00 and GPAO 2.00)

BUS 495. Business Honors Seminar, I. 3 Hours.
Study of the strategy-setting process for a business or other complex organization with emphasis on role of chief executive officer and other leaders in that process. Research, analysis, communications and presentation skills practiced.

BUS 496. Business Honors Seminar, II. 3 Hours.
Continuation of BUS 495, overview of business ethics and emphasis on skills required to complete final work project for the Collat School of Business Honors Program. Good standing in the Collat School of Business Honors Program and second semester senior standing required.
Prequisites: (GPAT and GPAO 2.00) or (GPAO 2.00 and GPAO 2.00)

BY-Biology Courses

BY 101. Topics in Contemporary Biology. 3 Hours.
Selected topics in modern biology, with emphasis on human biology. Only general elective credit for biology major or minor. NOTE: Not for biology majors or minors (with BY 102, CORE AREA III).

BY 102. Topics Contemporary Biology Laboratory. 1 Hour.
Experiments and demonstrations in contemporary biology with strong emphasis placed on understanding the systems of the human body. Drawing and writing assignments will focus on the structure and function of the important systems of the human body. Quantitative Literacy is a significant component of this course (QEP).

BY 111. Extended Topics in Contemporary Biology. 3 Hours.
Selected topics in contemporary biology of interest to students with minimal background in biology. Topics presented in interactive lecture/discussion format. NOTE: Only general elective credit for biology major or minor (with BY 112, CORE AREA III).
Prequisites: BY 101 [Min Grade: D]

BY 112. Ext Topics Contemporary Biology Laboratory. 1 Hour.
Further examination, interpretation, and discussion of topics in BY 111. Independent and group projects. NOTE: Only general elective credit for biology major or minor (with BY 111, CORE AREA III).
Prequisites: BY 111 [Min Grade: D](Can be taken Concurrently)

BY 115. Human Anatomy. 4 Hours.
Principles of vertebrate structure with emphasis on gross and microscopic human anatomy. Survey of human embryology and evolution. Lecture and laboratory.

BY 115L. Human Anatomy Laboratory. 0 Hours.
Human Anatomy Lab required with BY 115 lecture.

BY 116. Introductory Human Physiology. 4 Hours.
Integrated functions of human cells, tissues, and organ systems. NOTE: Only general elective credit for biology majors or minors. Lecture and laboratory.
Prequisites: BY 115 [Min Grade: C] and (CH 105 [Min Grade: C] and CH 106 [Min Grade: C] or CH 115 [Min Grade: C] and CH 116 [Min Grade: C] or CH 114 [Min Grade: C] or CH 117 [Min Grade: C] and CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

BY 116L. Introductory Human Physiology Laboratory. 0 Hours.
Human Physiology Lab required with BY 116 lecture.

BY 123. Introductory Biology I. 4 Hours.
Basic chemistry, cell structure and function, metabolism, genetics, evolution, bacteria, and protists. For major in biology and related fields. Quantitative Literacy and Writing are significant components of this course (QEP). Lecture and laboratory. Eligible for, enrolled in, or have completed MA 106, MA 107, MA 125, or MA 126.
Prequisites: MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: C](Can be taken Concurrently) or MA 126 [Min Grade: C](Can be taken Concurrently) or (A02 25 and HSCG 3.50) or (A02 24 and HSCG 3.50) or (A02 25 and HSCG 2.50) or (A02 26 or S02 580 and HSCG 3.50) or (S02 560 and HSCG 3.50) or (S02 580 and HSCG 3.50) or S02 600 or MAC1 17 or MAAD 24

BY 123L. Introductory Biology I Laboratory. 0 Hours.
Introductory Biology I Lab required with BY 123 lecture.

BY 124. Introductory Biology II. 4 Hours.
The course emphasizes the transition from cell, to tissue, to organs in multicellular systems. Specific attention in the course will be paid to a survey of the various groups of plants, fungi, invertebrates and vertebrates. Strong emphasis will be placed on comparing the anatomy and physiology of the major organ systems in humans with those of other organisms. The course is designed to expand the students understanding of the process of scientific writing. Quantitative Literacy and Writing are significant components of this course (QEP).
Prequisites: BY 123 [Min Grade: C]

BY 124L. Introductory Biology II Laboratory. 0 Hours.
Introductory Biology II Lab required with BY 124 lecture.

BY 210. Genetics. 3 Hours.
Principles and mechanisms of inheritance; structure, action, and regulation of genes; molecular genetic technology and application to human health and agriculture. Preparation for advanced courses in biology.
Prequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C]

BY 213. Phage Genomics I. 4 Hours.
Phage Genomics I is the first semester of a year-long lecture, laboratory, and web-enhanced course designed to provide an authentic research experience for undergraduate students. The course will address themes and techniques from across biology including microbiology, phage genomics, molecular biology, bioinformatics, and electron microscopy. Prereqs: completed application (contact biology advisor) and permission of instructor. Freshmen and sophomores only.
BY 214. Phage Genomics II. 4 Hours.
This course is the second semester of a year-long lecture, laboratory, and web-enhanced class designed to provide an authentic research experience for undergraduate students. Students will learn the concepts and procedures for: annotating segments of a unique mycobacteriophage genome to indently open reading frames, genes, and regulatory sequences; compare this bacteriophage genome to other sequenced bacteriophage genomes; compare and analyze amino acid sequences to reveal relationships between species; writing and presentation of scientific results. Freshmen and sophomores only.
Prerequisites: BY 213 [Min Grade: C]

BY 216. Pathophysiology. 3 Hours.
The course addresses epidemiologically relevant human pathologies resulting in disrupted homeostasis with an emphasis toward causal agents, mechanism of injury at the cellular and histological levels, pathogenic manifestations at the cellular, histologic, organ system and organismal levels, and applicable treatment strategies currently used in their medical detection, intervention and management. The course stresses modalities for human disease including genetic mutation, infection, neoplasia, immune dysfunction, preventable behaviors, endocrine alterations, and aging. The course specifically integrates the pathogenic model's impact on stress reactions, immune defenses, hematology, ventilation-respiration, cardiovascular perfusion, fluid balance, and nutrition. The course incorporates some remediation of the normal physiology and genetics required for homeostasis and introduces clinical profiling and case study learning.
Prerequisites: BY 116 [Min Grade: C] or BY 409 [Min Grade: D] or BY 124 [Min Grade: D] and (BY 261 [Min Grade: C] or BY 271 [Min Grade: C])

BY 245. Fundamentals of Scientific Investigation. 3 Hours.
The course covers the basics of scientific investigation with an emphasis on understanding methods of the scientific process, experimental design, data interpretation and presentation and scientific writing. Special emphasis will be placed on the use of data management and statistical packages to address the most common types of data analysis used to investigate specific applications in biology. Quantitative Literacy is a significant component of this course (QEP). Recommend course is taken before junior year.
Prerequisites: BY 124 [Min Grade: C]

BY 255. Invertebrate Zoology. 4 Hours.
Invertebrate phyla, emphasizing evolutionary relationships, biological principles demonstrated by invertebrates, and significance of invertebrates in total ecology. Lecture and laboratory.
Prerequisites: BY 214 [Min Grade: C]

BY 255L. Invertebrate Zoology Laboratory. 0 Hours.
Invertebrate Zoology Lab required with BY 255 lecture.

BY 256. Vertebrate Zoology. 4 Hours.
Comparative approach to the structure, function, ecology, life history, and conservation of vertebrates. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C] and CH 115 [Min Grade: C] and (CH 116 [Min Grade: C] or CH 114 [Min Grade: C])

BY 256L. Vertebrate Zoology Laboratory. 0 Hours.
Vertebrate Zoology Lab required with BY 256 lecture.

BY 260. Botany. 4 Hours.
Development, structure, physiology, and diversity of plants, emphasizing vascular plants. Lecture and laboratory. 4 hours. Prerequisites: BY 124, CH 115 and CH 116.
Prerequisites: BY 124 [Min Grade: C]

BY 260L. Botany Laboratory. 0 Hours.
Botany Lab required with BY 260 lecture.

BY 261. Introduction to Microbiology. 4 Hours.
Cell structure and function, microbial genetics, viruses, and epidemiology and infectious disease. NOTE: Cannot be applied toward requirements for a biology major. Lecture and laboratory.
Prerequisites: BY 116 [Min Grade: C] and BY 123 [Min Grade: C] or CH 107 [Min Grade: C] (Can be taken Concurrently) and CH 108 [Min Grade: C] (Can be taken Concurrently) or CH 235 [Min Grade: C] and CH 234 [Min Grade: C] or CH 236 [Min Grade: C] or CH 237 [Min Grade: C] and (CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

BY 261L. Introduction to Microbiology Laboratory. 0 Hours.
Introduction to Microbiology Lab required with BY 261 lecture.

BY 267. Tropical Ecology. 3 Hours.
Major tropical ecotypes; ecology of terrestrial, aquatic, and marine tropical organisms. Major portion conducted at tropical field station in Caribbean. Lecture and field trips (May session, alternate years). Permission of Instructor required.
Prerequisites: BY 124 [Min Grade: D]

BY 268. Galapagos Ecology. 3 Hours.
An overview of the ecology of the Galapagos Island, with an emphasis on the ecology of terrestrial and marine organisms. Major portion of course conducted on the Galapagos Islands. Lecture & field trips. Permission of instructor required.
Prerequisites: BY 124 [Min Grade: D]

BY 269. Rain Forest Ecology. 3 Hours.
Physical and environmental factors that structure rain forest, biodiversity of life, and interactions of its organisms. Prominent biota. Major portion of course taught at tropical field station in Costa Rica. Lecture and field trips (May session, alternate years). Permission of instructor required.
Prerequisites: BY 124 [Min Grade: D]

BY 271. Biology of Microorganisms. 4 Hours.
Microbiology with emphasis on molecular aspects of microbial cell structure, function, and diversity. Host defense mechanisms, infectious disease, and microbial ecology. Preparation for advanced courses in biology. Lecture and laboratory.
Prerequisites: BY 210 [Min Grade: D] and CH 117 [Min Grade: D] and (CH 118 [Min Grade: D] or CH 119 [Min Grade: D])

BY 271L. Biology of Microorganisms Laboratory. 0 Hours.
Biology of Microorganisms Lab required with BY 271 lecture.

BY 280. Biology of Aging. 3 Hours.
Current understanding of aging, measurement of aging changes, theories of aging, and aging changes in various human systems.
Prerequisites: BY 123 [Min Grade: C]

BY 311. Molecular Genetics. 3 Hours.
Prokaryotic and eukaryotic gene structure and function.
Prerequisites: BY 210 [Min Grade: D]

BY 314. Embryology. 3 Hours.
Descriptive and experimental studies of vertebrate development at the molecular, cellular and tissue levels.
Prerequisites: CH 117 [Min Grade: D] and CH 118 [Min Grade: D]

BY 327. Histology. 4 Hours.
Microscopic anatomy of cells, tissues, and organs of animals; correlation of structure and function. Techniques and methodology. Lecture and laboratory.
Prerequisites: BY 115 [Min Grade: D] or BY 124 [Min Grade: D]
BY 327L. Histology Laboratory. 0 Hours.
Histology Lab required with BY 327 lecture.

BY 330. Cell Biology. 3 Hours.
Biological molecules and metabolic processes; energetics; synthesis and regulation of macromolecules; differential gene expression; membranes and organelles; cytoskeleton; cell cycle and growth of normal and neoplastic cells.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and CH 235 [Min Grade: C](Can be taken Concurrently) and CH 234 [Min Grade: C](Can be taken Concurrently) or CH 236 [Min Grade: C](Can be taken Concurrently)

BY 362. Neurobiology. 3 Hours.
Biological basis of nervous system function. Comparative approach applying molecular, cellular, and systems concepts to nervous system function to examine electrical and chemical signaling, neural circuitry, and cellular basis of behavior and neural development (irregular offering).
Prerequisites: BY 409 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D]) and PH 201 [Min Grade: D]

BY 394. Biology Laboratory Teaching. 1-3 Hour.
Student will assist in instruction of a biology laboratory. Student is required to attend scheduled preparatory sessions each week, assist in teach assigned laboratory section, help develop student assignments such as examinations and/or practicals and assist the laboratory coordinator in other capacities as assigned. Students work under the direction of the course instructor and/or the laboratory coordinator. Student must have completed the course in which the student is assisting with a grade of B or higher. Permission of the instructor is required. May be repeated for credit to a maximum of three semester hours.

BY 395. Special Topics in Biology. 1-4 Hour.
This course will consider topics from the various disciplines in the biological sciences and the topic will differ each term. Course requirements may include lecture, laboratory, readings, discussion, reporting, and internships or fieldwork, which may be conducted on- or off-campus. May be taken more than once for credit.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 397. Advanced Directed Readings. 1-3 Hour.
Reading and independent study in selected areas under supervision of faculty sponsor. May be repeated for total of three semester hours credit. 12 semester hours of BY with BY GPA of 3.0 and permission of instructor required.

BY 398. Undergraduate Research. 1-3 Hour.
Research project under supervision of faculty sponsor. May be repeated for a total of 3 semester hours credit. 12 semester hours of BY with GPA of 3.0 and permission of instructor required.

BY 405. Microbial Physiology. 3 Hours.
Microbial structure and function, growth, metabolism, and regulation of cellular activity.
Prerequisites: BY 271 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 407. Microbial Ecology. 3 Hours.
Microorganisms in nature; interactions with each other and with environment.
Prerequisites: BY 271 [Min Grade: D]

BY 409. Principles of Human Physiology. 4 Hours.
The lecture and laboratory course uses humans as a model system to investigate physiological processes occurring at cell, tissue, organ, and system levels. Additionally the use of experimental examples and laboratory experiments and the interpretation of data will be used to understand all aspects of productivity. The class is designed to improve scientific writing skills related to research experiment. Writing and Quantitative Literacy are significant components of this course (QEP). Foundation in anatomy recommended (BY 115 or BY 256).
Prerequisites: BY 210 [Min Grade: D] and CH 237 [Min Grade: D] and CH 238 [Min Grade: D] or CH 239 [Min Grade: D]

BY 409L. Principles of Human Physiology Laboratory. 0 Hours.
Human Physiology Lab required with BY 408 and BY 409 lecture.

BY 410. Comparative Animal Physiology. 3 Hours.
Comparative examples to illustrate general principles of physiology; study of how animals function in their environment.
Prerequisites: BY 256 [Min Grade: D]

BY 411. Advanced Human Anatomy. 4 Hours.
This course is a detailed, advanced examination of gross human anatomy and histology. In a laboratory setting, students achieve course objectives by dissecting a human cadaver, and by observing dissected cadavers and casts.
Prerequisites: BY 115 [Min Grade: C] or BY 124 [Min Grade: C] or BY 409 [Min Grade: C]

BY 415. Ecology-Epidemiology of Arthropod Born Diseases. 4 Hours.
This course covers the ecology, epidemiology, & control of arthropods and the pathogens they transmit to humans and animals. Special emphasis will be placed on emerging and re-emerging pathogens such as: dengue, yellow fever, bartonella, Rift Valley fever, typhus, & Chagas disease. The laboratory will reinforce the lectures with hands-on identification of both arthropods and pathogens. Lecture and Lab.
Prerequisites: BY 210 [Min Grade: C]

BY 416. Cellular Physiology. 3 Hours.
Biochemical and thermodynamic aspects of cellular energy metabolism. Foundation in physiology recommended (BY 124, BY 116, BY 409 or BY 410).
Prerequisites: BY 330 [Min Grade: D] and CH 237 [Min Grade: D] (Can be taken Concurrently) and CH 238 [Min Grade: D](Can be taken Concurrently) or CH 239 [Min Grade: D]

BY 419. Reproductive Physiology. 3 Hours.
Comparative reproductive physiology in mammals, with emphasis on humans.
Prerequisites: BY 256 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 420. General Endocrinology. 3 Hours.
The central theme of this course is the role of hormone chemical messengers in the regulation of physiological processes. Topics include structure of endocrine cells and glands, hormone synthesis and chemistry, physiological effects of hormones, and mechanisms of hormone action. Emphasis is placed on vertebrate systems, but instructive invertebrate systems are also considered.
Prerequisites: BY 256 [Min Grade: D]

BY 426. Evolutionary Medicine. 3 Hours.
An evolutionary approach to issues relating to human health and disease.
Prerequisites: (BY 116 [Min Grade: C] or BY 409 [Min Grade: C]) and BY 330 [Min Grade: C]
BY 429. Evolution. 3 Hours.
The course includes the history of evolutionary thought and modern evolutionary theory. Discussions cover (but are not limited to) the history of life, mechanisms of evolutionary change, sexual selection, adaptation, speciation, and molecular evolution. Students will also be introduced to historical and contemporary studies of evolution on a wide variety of topics and organisms.
Prerequisites: BY 210 [Min Grade: D]

BY 431. Principles of DNA Technology. 3 Hours.
Manipulation of genes and their regulation; techniques used in recombinant DNA technology. Lecture.
Prerequisites: BY 210 [Min Grade: D] and BY 311 [Min Grade: D]

BY 432. Biological Information Resources. 3 Hours.
The National Center for Biological Information (NCBI) website is a treasure house of information and tools for researchers in all areas of modern Biology. The goal of this course is to provide guidance for students who wish to become familiar with the NCBI website through an online learning experience. They will learn many of the features available at this site and will gain experience using some of the tools. The course will be taught completely online and will consist of 1) Guidelines for navigating through NCBI, 2) Study guide questions for students to answer online, 3) NCBI tutorials with questions to be answered online, 4) Assignments with questions to be answered online, 5) Online exams.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C]

BY 433. Advanced Molecular Genetics. 3 Hours.
Molecular genetics of eukaryotic organisms, including analysis of the features and nature of eukaryotic genomes, genes, nucleosomes, and chromosomes; processes involved, such as transcription, splicing, transposition, and signal transduction. The role of molecular biology in cell growth and cancer. Lecture.
Prerequisites: BY 311 [Min Grade: D]

BY 434. Functional Genomics and Systems Biology. 3 Hours.
Systems biology is an inter-disciplinary study underlying complex biological processes as integrated systems of many interacting components. This course will give students a foundation in understanding complex biological interactions at the molecular, network and genomic level. This course will cover state-of-the-art high throughput established and novel approaches used in genome sequencing, transcriptomics, proteomics and metabolomics to obtain, integrate and analyze complex data. The students will also get familiar with knowledge on experimental perturbation of genomes, gene regulatory networks, comparative genomics and evolution, basic bioinformatics. This course will be a combination of text based lectures and discussions of the current literature relevant to Functional Genomics and Systems Biology.
Prerequisites: BY 210 [Min Grade: C]

BY 435. Natural History of Vertebrates. 4 Hours.
Lecture and field study of adaptations of vertebrate classes for survival in particular environments. Survey and classification of local vertebrates. Lecture and laboratory.
Prerequisites: BY 256 [Min Grade: C]

BY 435L. Natural History of Vertebrates Laboratory. 0 Hours.
BY 435 lecture.

BY 437. Epigenetics. 3 Hours.
This course provides a survey of the field of epigenetics, introducing the student to the diverse areas of epigenetic research in a variety of eukaryotic systems. The course combines lectures with discussion of primary literature and research talks from invited faculty speakers working in epigenetics. In addition to providing an overview of the field of epigenetics, this course emphasizes working with primary scientific literature and the development of critical reading skills. Recommended that Molecular Genetics be completed prior to enrollment.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 440. Immunology. 3 Hours.
Immune system and functions of host humoral and cellular immune responses. Mechanisms of antigen and antibody reactions and basic immunological methods.
Prerequisites: BY 271 [Min Grade: C] and BY 330 [Min Grade: C]

BY 442. Experimental Phycology. 4 Hours.
The course uses Algae as a model system to investigate various experimental approaches to assessing productivity with specific emphasis placed on classification, respiration, photosynthesis, growth and nutrient limitation. Additionally the use of experimental examples and laboratory experiments and the interpretation of data will be used to understand all aspects of productivity. Designed to improve scientific writing skills related to research experiments. Writing and Quantitative Literacy are significant components of this course (QEP).
Prerequisites: BY 124 [Min Grade: C] and CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

BY 442L. Experimental Phycology Laboratory. 0 Hours.
Experimental Phycology Lab required with BY 442 lecture.
Prerequisites: BY 124 [Min Grade: C] and CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

BY 448. Psychoneuroimmunology. 3 Hours.
How neuroendocrine and immune systems communicate with each other. Regulatory processes mediated by interactions between these systems and application to diseases.
Prerequisites: BY 440 [Min Grade: D]

BY 450. Plant Physiology. 4 Hours.
Metabolic activities and growth processes of plants, with emphasis on photosynthesis, respiration, germination, dormancy, and hormones; physiological phenomena associated with phases of development. Lecture and laboratory.
Prerequisites: BY 260 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 450L. Plant Physiology Laboratory. 0 Hours.
Plant Physiology Lab required with BY 450 lecture.

BY 451. Plant Biology. 3 Hours.
This course introduces the student to the basic concepts of plant biology including plant diversity, structure, physiology, metabolism, reproduction, genetics, molecular biology, evolution and ecology. It is targeted to Biology Majors and Biology Graduate Students. This class brings together knowledge and methodologies from a number of different disciplines to provide students with an intensive and comprehensive plant curriculum from the molecular to the organismal level. Prerequisite: BY 123, BY 124, BY 210.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]
BY 452. Field Botany. 4 Hours.
Plant identification and classification; consideration of phylogenetic systems. Lecture and laboratory.
Prerequisites: BY 260
BY 452L. Field Botany Laboratory. 0 Hours.
Field Botany Lab required with BY 452 lecture.
BY 453. Mycology. 4 Hours.
Fungi, including morphology, development, physiology, taxonomy, and phylogeny. Lecture and laboratory.
Prerequisites: (BY 260 [Min Grade: D] or BY 271 [Min Grade: D]) and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])
BY 453L. Mycology Laboratory. 0 Hours.
Mycology Lab required with BY 453 lecture.

BY 460. Advanced Invertebrate Zoology. 3 Hours.
This course takes an in-depth look at aspects of the biology of the Echinodermata and Crustacea. The course format includes lectures, guest lectures, and student critiques of papers from the scientific literature. There is a field trip to Blunt Springs to search for echinoderm fossils. Lecture and student projects.
Prerequisites: BY 255 [Min Grade: D]

BY 465. Limnology. 4 Hours.
Chemical and physical principles of lakes and streams; biology of freshwater and estuarine organisms. Lecture and laboratory.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D] or BY 260 [Min Grade: D]
BY 465L. Limnology Laboratory. 0 Hours.
Limnology Lab required with BY 465 lecture.

BY 470. Ecology. 3 Hours.
Ecosystems and population biology. Lecture.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D] or BY 260 [Min Grade: D] or BY 271 [Min Grade: D]
BY 471. Ecology Laboratory. 1 Hour.
Laboratory in ecosystems and population biology. May be taken concurrently with BY 470.
Prerequisites: BY 470 [Min Grade: D](Can be taken Concurrently)

BY 474. Chemical Ecology. 3 Hours.
Study of chemical interactions between organisms or between organisms and their environment. Topics include chemical signaling between organisms, sensing of the chemical environment, and chemical defenses against predators, pathogens, biofoulers, or competitors. Students will be introduced to these topics in wide variety of terrestrial and aquatic habitats, with a special emphasis on marine organisms.
Prerequisites: BY 124 [Min Grade: C] and CH 235 [Min Grade: C]

BY 475. Comparative Developmental Biology. 3 Hours.
Mechanisms of development with emphasis on comparative biology.
Prerequisites: BY 210 [Min Grade: D] and BY 314 [Min Grade: D]

BY 480. Emergency Medicine Internship. 3 Hours.
This semester-long internship is designed to provide undergraduate students with an authentic hands-on medical research experience. The course will allow students the opportunity to assist faculty members and residents of the UAB Department of Emergency Medicine in their clinical research studies. Specifically, students will be involved in patient recruitment for the study, determine patient eligibility, reading information about the studies to patients, and collecting data regarding patient history. Students will also have the methodology associated with clinical research. Junior or senior standing, minimum GPA of 3.5, completed application and acceptance into the internship program required.

BY 490. Bio Capstone: Human Physiology. 4 Hours.
Physiological processes occurring at cell, tissue, organ, and system levels in mammals with emphasis on humans. Students that enroll in this capstone experience will be expected to do additional work to fulfill their biology capstone requirement. Lecture and Laboratory. Foundation in anatomy recommended (Human Anatomy or Vertebrate Zoology).
Prerequisites: BY 210 [Min Grade: D] and CH 237 [Min Grade: D] and (CH 238 [Min Grade: D] or CH 239 [Min Grade: D])

BY 491. Biology Capstone - Evolution. 4 Hours.
The course introduces the history of evolutionary thought and modern evolutionary theory. Discussions cover (but are not limited to) the history of life, mechanisms of evolutionary change, sexual selection, adaptation, speciation, and molecular evolution. Students will be introduced to historical and contemporary studies of evolution on a wide variety of topics and organisms. Students that enroll in this class as their capstone experience are expected to do writing and ethics assignments to fulfill their capstone requirement.

BY 492. Biology Capstone - Undergraduate Research. 4 Hours.
Research project under supervision of faculty sponsor. Student must enroll for 4 credit hours and must have senior standing. Students who enroll in this course as their capstone experience will be required to do additional work to fulfill their biology capstone requirement.

BY 493. Biology Capstone - Honors Research. 4 Hours.
Research project under supervision of faculty sponsor. You must enroll in 4 credit hours and you must have senior standing. Students that identify this course as their capstone experience will be required to do additional work to fulfill their biology capstone requirement.

BY 495. Special Topics in Biology. 1-4 Hour.
This course will consider topics from the various disciplines in the biological sciences and the topic will differ each term. Course requirements may include lecture, laboratory, readings, discussion, reporting, and internships or fieldwork, which may be conducted on- or off-campus. May be taken more than once for credit. Prerequisite: BY 123, BY 124, and BY 210.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]
BY 496. Fundamentals of Clinical Research. 3 Hours.
Issues relevant to the conduct of clinical research: ethics, hypothesis testing, study design, and data collection and management. Lecture and clinical interaction with patients. Prerequisites: Junior or Senior level biology majors; 15 hours of biology credit with a 3.5 GPA in biology courses, and permission of instructor.

BY 498. Honors Research. 1-6 Hour.
Research project for students admitted to Honors Research Program. Two or three terms required during which minimum of 6 semester hours must be earned. Grade assigned at completion of program. 18 hours of biology with minimum GPA of 3.5 in biology classes and admission to Honors Research Program required.

BY 499. Biology Seminar. 1 Hour.
Student presentations and discussions. Subject matter varies by term. See current class schedule for topic. Senior standing and permission of instructor required.

Birmingham Area Consortium Courses
BCX 110. BACHE: Birmingham Southern. 1-6 Hour.
BCX 111. BACHE: Birmingham Southern. 1-6 Hour.
BCX 112. BACHE: Birmingham Southern. 1-6 Hour.
BCX 113. BACHE: Birmingham Southern. 1-6 Hour.
BCX 114. BACHE: Birmingham Southern. 1-6 Hour.
BCX 130. BACHE: Miles College. 1-6 Hour.
BCX 131. BACHE: Miles College. 1-6 Hour.
BCX 132. BACHE: Miles College. 1-6 Hour.
BCX 133. BACHE: Miles College. 1-6 Hour.
BCX 134. BACHE: Miles College. 1-6 Hour.
BCX 150. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 151. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 152. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 153. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 154. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 170. BACHE: Samford Univ. 1-6 Hour.
BCX 171. BACHE: Samford Univ. 1-6 Hour.
BCX 172. BACHE: Samford Univ. 1-6 Hour.
BCX 173. BACHE: Samford Univ. 1-6 Hour.
BCX 174. BACHE: Samford Univ. 1-6 Hour.
BCX 210. BACHE: Birmingham Southern. 1-6 Hour.
BCX 211. BACHE: Birmingham Southern. 1-6 Hour.
BCX 212. BACHE: Birmingham Southern. 1-6 Hour.
BCX 213. BACHE: Birmingham Southern. 1-6 Hour.
BCX 214. BACHE: Birmingham Southern. 1-6 Hour.
BCX 230. BACHE: Miles College. 1-6 Hour.
BCX 231. BACHE: Miles College. 1-6 Hour.
BCX 232. BACHE: Miles College. 1-6 Hour.
BCX 233. BACHE: Miles College. 1-6 Hour.
BCX 234. BACHE: Miles College. 1-6 Hour.
BCX 250. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 251. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 252. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 253. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 254. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 270. BACHE: Samford Univ. 1-6 Hour.
BCX 271. BACHE: Samford Univ. 1-6 Hour.
BCX 272. BACHE: Samford Univ. 1-6 Hour.
BCX 273. BACHE: Samford Univ. 1-6 Hour.
BCX 274. BACHE: Samford Univ. 1-6 Hour.
BCX 310. BACHE: Birmingham Southern. 1-6 Hour.
BCX 311. BACHE: Birmingham Southern. 1-6 Hour.
BCX 312. BACHE: Birmingham Southern. 1-6 Hour.
BCX 313. BACHE: Birmingham Southern. 1-6 Hour.
BCX 314. BACHE: Birmingham Southern. 1-6 Hour.
BCX 330. BACHE: Miles College. 1-6 Hour.
BCX 331. BACHE: Miles College. 1-6 Hour.
BCX 332. BACHE: Miles College. 1-6 Hour.
BCX 333. BACHE: Miles College. 1-6 Hour.
BCX 334. BACHE: Miles College. 1-6 Hour.
BCX 350. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 351. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 352. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 353. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 354. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.
BCX 370. BACHE: Samford Univ. 1-6 Hour.
BCX 371. BACHE: Samford Univ. 1-6 Hour.
BCX 372. BACHE: Samford Univ. 1-6 Hour.
BCX 373. BACHE: Samford Univ. 1-6 Hour.
BCX 374. BACHE: Samford Univ. 1-6 Hour.
BCX 410. BACHE: Birmingham Southern. 1-6 Hour.
BCX 411. BACHE: Birmingham Southern. 1-6 Hour.
BCX 412. BACHE: Birmingham Southern. 1-6 Hour.
BCX 413. BACHE: Birmingham Southern. 1-6 Hour.
BCX 414. BACHE: Birmingham Southern. 1-6 Hour.
CAS-College of Arts Sciences Courses

CAS 101. Success in Biology and Natural Sciences. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in the biology in context of the university. It is meant to help prepare students for a successful collegiate career in the study of biology and natural sciences.

CAS 102. Success in Chemistry and Natural Sciences. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in the Chemistry in context of the university. It is meant to help prepare students for a successful collegiate career in the study of chemistry and natural sciences.

CAS 103. Success in the Sciences. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in the sciences in context of the university. It is meant to help prepare students for a successful collegiate career in the study of science.

CAS 104. Success in Soc/ Behavioral Sci. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in the social and behavioral sciences in context of the university. It is meant to help prepare students for a successful collegiate career in the study of social and behavioral sciences.

CAS 105. Success in Psychology and Social Sciences. 2 Hours.
The objective of this course is to introduce freshmen to an education in psychology and the social sciences in context of the university. It is meant to help prepare students for a successful collegiate career in the study of psychology and social sciences.

CAS 106. Success in the Humanities. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in the humanities in context of the university. It is meant to help prepare students for a successful collegiate career in the study of the humanities.

CAS 107. Success in Music. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in music in context of the university. It is meant to help prepare students for a successful collegiate career in the study of music.

CAS 108. Success in Communication. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in communication in context of the university. It is meant to help prepare students for a successful collegiate career in the study of communication.

CAS 109. Success in World Cultures and Foreign Languages. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in foreign languages and world cultures in context of the university. It is meant to help prepare students for a successful collegiate career in the study of world cultures and foreign languages.

CAS 110. Success in Art. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in art in context of the university. It is meant to help prepare students for a successful collegiate career in the study of art.

CAS 111. Success in Theatre. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in theatre in context of the university. It is meant to help prepare students for a successful collegiate career in the study of theatre.

CAS 112. Success in College. 1 Hour.
The objective of this course is to introduce incoming freshmen to a successful path in college. It is meant to help prepare students for a successful collegiate career in any field of study.

CAS 399. Perceptions:Poverty in Amer/SL. 3 Hours.
This service-learning course engages students in critical analysis of perceptions and policies about poverty in the United States while providing essential tax preparation and services to members of our local community. Academic coursework will focus on perceptions and misperceptions of those in poverty, race and poverty, socioeconomic issues faced by low-income families, federal and state policies toward working families, predatory lending practices that erode wealth, and strategies to address poverty in the United States.

CB-Cell Biology Courses

CD-Clinical Dentistry Courses

CDS-Clinical Diagnostic Sci Courses

CDS 300. Microbiology for the Health Professions. 3 Hours.
A course in which the basic, and some advanced, concepts of microbiology are presented as they relate to health sciences and medicine. The course consists of nine units, each of which contains multiple lessons. The units cover the scope of microbiology, a survey of microorganisms, the study of microorganisms, microbial physiology, the control of microbial growth, microbial genetics, immunity, microbial pathogenesis, and microbial processes.

CDS 301. Microbiology Laboratory for Health Professions. 1 Hour.
Students will learn to practice laboratory safety, correctly operate a compound light microscope, prepare and interpret the results of various stains, cultivate, isolate and identify pathogenic microorganisms, and perform and interpret simple serologic assays.
CDS 400. Fundamentals of Phlebotomy and Body Fluid Collection. 1 Hour.
An in depth course in phlebotomy covering aspects of safety procedures, hygiene, capillary puncture, venipuncture, arterial access and maintenance, intravenous access and maintenance, drug administration via IV, intramuscular and subcutaneous methods and non-blood collections of bodily fluids.

CDS 405. Survival Spanish for Health Professionals. 1 Hour.
Health care professionals will be introduced to basic vocabulary, useful questions and expressions in Spanish needed to communicate in practical health care situations. Students will participate in speaking exercises, dialogue, and role-play activities (field-specific scenarios).

CDS 420. Competencies in Genetics for Health Professions. 2 Hours.
Overview of NCHPED core competencies in genetics; develops knowledge, skills, and attitudes needed to provide effective and comprehensive health services to individuals and families.

CDS 425. First Aid and Healthcare Provider CPR and AED Course. 1 Hour.
The goal of this course is to provide the student with the knowledge and skills needed to perform basic first aid and CPR procedures for adult, child and infant victims according to the American Heart Association (AHA) Standards.

CDS 430. Advanced Cardiac Life Support. 1 Hour.
Provides students with the knowledge and skills needed to perform Advanced Cardiac Life Support (ACLS) according to the American Heart Association (AHA) standards.

CE-Civil Engineering Courses

CE 011. UG Coop/Internship in CE. 0 Hours.
Engineering workplace experience in preparation for the student’s intended career.

CE 200. Engineering Geology. 2 Hours.
The solid earth, the nature of the earth’s crust and surficial processes.

CE 210. Statics. 3 Hours.
Prerequisites: EGR 100 [Min Grade: C] (Can be taken Concurrently), MA 126 [Min Grade: C] and PH 221 [Min Grade: C] and EGR 100 [Min Grade: C] and EGR 111 [Min Grade: C] (Can be taken Concurrently) or EGR 200 [Min Grade: C] (Can be taken Concurrently)

CE 220. Mechanics of Solids. 3 Hours.
Prerequisites: CE 210 [Min Grade: C]

CE 221. Mechanics of Solids Laboratory. 1 Hour.
Strain gage installation and applications. Standard tensile, torsion, bending, and column tests. Measurement of forces, displacements, strains, and other variables. Writing is a significant component of this course (QEP).
Prerequisites: CE 220 [Min Grade: D] (Can be taken Concurrently)

CE 222. Civil Engineering Materials Laboratory. 1 Hour.
Materials testing laboratory evaluating properties of materials of construction such as cement, concrete, masonry, and asphalt. Design of Portland cement concrete and asphaltic concrete mixes.
Prerequisites: CE 220 [Min Grade: D] (Can be taken Concurrently)

CE 230. Plane Surveying. 3 Hours.
Care and use of surveying instruments, surveying methods, error theory, traversing, stadia, mapping techniques, circular and parabolic curves, areas, and volumes. CE 230L must be taken concurrently.
Prerequisites: MA 125 [Min Grade: C]

CE 230L. Plane Surveying Laboratory. 0 Hours.
To provide the student with an understanding of the principles of land measurement, the instruments and techniques used in surveying, theory of errors and mathematical precision in engineering analysis and design. To provide an introduction to route surveying, and the principles of horizontal and vertical curves. Companion to CE 230 and must be taken concurrently.

CE 236. Environmental Engineering. 3 Hours.
Air/water pollution and solid waste. Quality of environment. Environmental health. Regulations and legal considerations. Must have a grade of C or better to complete this course. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: MA 125 [Min Grade: C] and CH 117 [Min Grade: C]

CE 236L. Environmental Engineering Laboratory. 0 Hours.
Laboratory equipment and methods. Biological, chemical, and physical tests to determine characteristics of water and wastewater. Companion lab to CE 236 and must be taken concurrently.

CE 322. Civil Engineering Materials Laboratory. 1 Hour.
Materials testing laboratory evaluating properties of materials of construction such as cement, concrete, masonry, and asphalt. Design of Portland cement concrete and asphaltic concrete mixes.
Prerequisites: CE 220 [Min Grade: D] (Can be taken Concurrently)

CE 230. Plane Surveying. 3 Hours.
Care and use of surveying instruments, surveying methods, error theory, traversing, stadia, mapping techniques, circular and parabolic curves, areas, and volumes. CE 230L must be taken concurrently.
Prerequisites: MA 125 [Min Grade: C]

CE 230L. Plane Surveying Laboratory. 0 Hours.
To provide the student with an understanding of the principles of land measurement, the instruments and techniques used in surveying, theory of errors and mathematical precision in engineering analysis and design. To provide an introduction to route surveying, and the principles of horizontal and vertical curves. Companion to CE 230 and must be taken concurrently.

CE 320. Soil Engineering. 4 Hours.
Soil identification and properties, stress concepts, permeability settlement analysis, soil compaction, bearing capacity, shear strength of soil. CE 332L must be taken concurrently.
Prerequisites: CE 200 [Min Grade: D] and CE 220 [Min Grade: D]

CE 322L. Soil Engineering Laboratory. 0 Hours.
Soil classification, strength tests, permeability and consolidation tests. Companion to CE 332 and must be taken concurrently.

CE 337. Hydraulics. 3 Hours.
Fundamentals of hydraulics including properties of water; hydrostatic forces and pressures; flow, head losses, and related phenomena in pipes; river hydrograph routing; statistical hydrology; flow in open channels; culvert design; applied hydraulic modeling. Must have a grade of C or better to complete the course.
Prerequisites: MA 126 [Min Grade: C]

CE 344. Civil Engineering Analysis I. 3 Hours.
Inspection and treatment of data using exploratory data analysis. Introduction to probability. Basic data analysis using comparisons and regression. Quality control and reliability analyses. Emphasis on Quantitative Literacy. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 126 [Min Grade: C]

CE 345. Transportation Engineering. 3 Hours.
Function, influence, characteristics and operation of transportation systems and facilities, focusing primarily on highway systems. Geometric design, operations, and transportation planning are covered. Prerequisite: Junior Standing.
CE 360. Structural Analysis. 3 Hours.
Reactions, shears, moments, and axial forces in determinate and indeterminate structures. Influence lines; moment area and energy methods of computing deflections; methods of truss and frame analysis. Computer applications. Must have a grade of C or better to complete the course.
Prerequisites: CE 220 [Min Grade: D]

CE 370. Professional Preparation. 2 Hours.
Introduces engineering students to a variety of topics and professional skills that aim at enhancing the development of the engineer. Topics include learning about varied forms of technical writing and oral presentation, engineering ethics, leadership and management, importance of licensure, and life-long learning.
Prerequisites: EH 102 [Min Grade: C]

CE 395. Engineering Economics. 3 Hours.
Fundamental concepts of engineering economy. Introduction to cost and revenue estimating and cash flow analysis for engineering projects. Choosing between alternatives taking into account the time value of money, depreciation, inflation, income taxes and risk factors.
Prerequisites: MA 125 [Min Grade: C]

CE 410. FE Review for Civil Engineers. 1 Hour.
Review concepts of the engineering core and civil engineering in preparation for the Fundamentals of Engineering (FE) exam.

CE 420. Advanced Mechanics. 3 Hours.
Variation of stress at point including determination of principal and maximum shear stresses. Basic problems involving symmetrical deformation; thickwall cylinders, spheres, and rotating disks. Torsions of noncircular sections. Curved beams. Failure Theories. Unsymmetrical bending and shear center.
Prerequisites: CE 220 [Min Grade: D]

CE 426. Foundation Engineering. 3 Hours.
Application of principles of soil mechanics to: determine bearing capacity and settlement of spread footings, mats, single piles and pile groups; site investigation, evaluate data from field and tests; estimation of stresses in soil masses; lateral resistance of piles and pile group; retaining walls, sheetpiles, and coffer-dams.
Prerequisites: CE 332 [Min Grade: C]

CE 430. Structural Analysis. 3 Hours.
Water requirements; wastewater characteristics. Hydraulics and design of sewers; distribution and reuse of water. Development of water supplies; design considerations.
Prerequisites: CE 337 [Min Grade: C]

CE 431. Energy Resources. 3 Hours.
Overview of the various energy resources: oil, natural gas, coal, nuclear, hydro, solar, geothermal, biomass, wind, and ocean energy resources, in terms of supply, distribution, recovery and conversion, environmental impacts, economics, policy, and technology. Concepts and opportunities for energy conservation; including electric power generation, changing role of electric utilities, transportation applications, and energy use in developing countries. Field trips.
Prerequisites: CE 236 [Min Grade: C]

CE 433. Solid and Hazardous Wastes Management. 3 Hours.
Overview of waste characterizations, regulations, and management options. The course covers fundamentals of landfill design, recycling, incineration, emerging disposal technologies, federal and state laws, and hazardous waste treatment, and ultimate disposal of hazardous waste.
Prerequisites: CE 236 [Min Grade: C]

CE 434. Air Quality Modeling and Monitoring. 3 Hours.
Atmospheric pollutant effects, reactions and sources. Air dispersion modeling. Ambient monitoring.
Prerequisites: ME 251 [Min Grade: C]

CE 437. Environmental Experimental Design and Field Sampling. 3 Hours.
Experimental design, sensitivity analyses, water sampling, and flow monitoring. Receiving water chemical reactions. Field investigations. Lecture and laboratory.
Prerequisites: CE 344 [Min Grade: D]

CE 440. Civil Engineering Honors Research. 3 Hours.
Departmental honors students work closely with faculty researchers and graduate students in departmental concentration specialties to develop research skills. Enrollment is limited to undergraduate students enrolled in CCEE Departmental Honors Program.

CE 441. Civil Engineering Honors Seminar. 1 Hour.
Seminar focusing on student research and guest presentations of various topics of interest to civil and environmental engineering students.

CE 442. Highway Materials and Construction. 3 Hours.
Properties of materials used in highway construction. Construction methods and management.
Prerequisites: CE 332 [Min Grade: D] and CE 345 [Min Grade: D]

CE 443. Pavement Design and Construction. 3 Hours.
Analysis of stresses and strains in pavement systems. Design and construction of flexible and rigid pavements, base courses, and subgrades. Effects of loading on pavement life.
Prerequisites: CE 345 [Min Grade: D]

CE 450. Structural Steel Design. 3 Hours.
Tension members, columns, beams, and beam columns. Simple connections. Load Resistance Factor Design (LRFD) approaches.
Prerequisites: CE 360 [Min Grade: C]

CE 453. Design of Wood Structures. 3 Hours.
Design and detailing of timber structures. Properties and specifications for dimension and glulam timber. Design of beams, columns, beam-columns, connections (nail and bolts), roof diaphragms, and shear walls. Design of timber structures to meet the requirements of the National Design Specification Standards.
Prerequisites: CE 360 [Min Grade: C]

CE 454. Design of Masonry Structures. 3 Hours.
Design and detailing of masonry structures. Nomenclature, properties, and specifications for components. Design of assemblages, simple masonry structures, unreinforced and reinforced elements, and complex masonry structures.
Prerequisites: CE 360 [Min Grade: C]

CE 455. Reinforced Concrete Design. 3 Hours.
Behavior, strength, and design of reinforced concrete structural members (beams, columns, one-way slabs, and continuous beams) subjected to moment, shear, and axial forces according to the American Concrete Institute Building Code Requirements for Structural Concrete (ACI 318). Crack control and serviceability considerations. Introduction to the design of reinforced concrete structures.
Prerequisites: CE 360 [Min Grade: C]

CE 456. Prestressed Concrete Design. 3 Hours.
Principles and concepts of design in prestressed concrete including elastic and ultimate strength analyses for flexural, shear, bond, and deflection. Principles of concordancy and linear transformation for indeterminate prestressed structures.
Prerequisites: CE 455 [Min Grade: D]
CE 457. Concrete Technology. 3 Hours.
Prerequisites: CE 222 [Min Grade: D]

CE 460. Structural Mechanics. 3 Hours.
Elastic beam deflections, beam columns, lateral torsional buckling, column stability, plastic design, plate bending, and yield line theory.
Prerequisites: CE 360 [Min Grade: C]

CE 461. Introduction to the Finite Element Method. 3 Hours.
Prerequisites: CE 220 [Min Grade: D]

CE 462. Advanced Structural Analysis. 3 Hours.
Analysis of indeterminate structures utilizing both classical and matrix methods. Use of large-scale computer programs.
Prerequisites: CE 360 [Min Grade: C]

CE 464. Structural Dynamics. 3 Hours.
Prerequisites: CE 360 [Min Grade: C] and ME 215 [Min Grade: C]

CE 467. Wind and Seismic Loads. 3 Hours.
Methods for calculating loads on structures caused by extreme winds and earthquakes. Calculation of wind loads on various types of structures according to theory and codes. Determination of earthquake loads on structures using structural dynamics and codes.
Prerequisites: CE 360 [Min Grade: C]

CE 468. Bridge Engineering. 3 Hours.
Bridge loads, steel beam bridges, composite beam bridges, bridge bearings, reinforced and prestressed concrete slab and T-beam bridges, bridge evaluations and ratings, and upgrade methodologies; computer applications.
Prerequisites: CE 450 [Min Grade: C] or CE 455 [Min Grade: C]

CE 480. Introduction to Water and Wastewater Treatment. 3 Hours.
Physical unit operations and chemical/biological unit processes for water and wastewater treatment. Design of facilities for treatment. Treatment and disposal of sludge.
Prerequisites: CE 236 [Min Grade: C]

CE 485. Engineering Hydrology. 3 Hours.
Hydrologic principles including the hydrologic cycle, precipitation data and stream-flow measurements. Applications to engineering problems: stream-flow analysis, and watershed management.
Prerequisites: CE 337 [Min Grade: C]

CE 489. Undergraduate Engineering Research. 0 Hours.
Undergraduate research experiences in civil, construction and/or environmental engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C] or EGR 100 [Min Grade: C]) and MA 125 [Min Grade: C] and PH 221 [Min Grade: C](Can be taken Concurrently)

CE 490. Special Topics in (Area). 3 Hours.
Special Topics in (Area).
CH 107. Introductory Chemistry II. 3 Hours.
Fundamental organic and biochemistry. The second part of the chemistry sequence for non-science majors and nursing students. Covers concepts of organic chemistry and biochemistry. Emphasis on molecules involved in life processes. Writing assignments structured to build on scientific reasoning. (Core Area III). Not applicable to a major or minor in chemistry. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: CH 115 [Min Grade: C], CH 105 [Min Grade: C] or CH 115 [Min Grade: C]

CH 108. Introductory Chemistry II Laboratory. 1 Hour.
Emphasizes development of lab skills and demonstration of phenomena covered in CH 107. (Core Area III) Not applicable to a major or minor in chemistry. Writing assignments structured to build on scientific reasoning. Quantitative Literacy is a significant component of this course (QEP). Concurrent enrollment in or prior completion of CH 107 strongly recommended.

CH 114. General Chemistry I Laboratory (Honors). 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 115. Writing assignments structured to build on scientific reasoning. (Core Area III) Quantitative Literacy is a significant Component of this course (QEP). Permission of instructor or enrollment in Honors College or Chemistry Scholars program required. Concurrent enrollment or prior completion of CH 115 strongly recommended.

CH 115. General Chemistry I. 3 Hours.
Stoichiometry, quantum theory, atomic structure, chemical bonding, acids-bases, colligative properties and periodicity. Laboratory emphasizes quantitative analysis. Writing assignments structured to build on scientific reasoning. Concurrent enrollment in CH 115R General Chemistry I Recitation required. (Core Area III) Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 102 [Min Grade: B] or (MA 105 [Min Grade: C] or MA 105 [Min Grade: P]) or MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 109 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: P] or (A02 23 and HSCG 3.50) or (A02 24 and HSCG 3.00) or (A02 25 and HSCG 2.50) or A02 26 or (S02 540 and HSCG 3.50) or (S02 540 and HSCG 3.00) or (S02 580 and HSCG 2.50) or S02 600 or MA1 17 or MAAD 21

CH 115R. General Chemistry I Recitation. 0 Hours.
General Chemistry I recitation is used to build problem-solving skills in a study-group environment. Included in these sections are homework, quizzes, lecture related problems, and exams. Concurrent enrollment in CH 115 General Chemistry I required.

CH 116. General Chemistry I Laboratory. 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 115. Writing assignments structured to build on scientific reasoning. Concurrent enrollment or prior completion of CH 115 General Chemistry I recommended. (Core Area III) Quantitative Literacy is a significant component of this course (QEP).

CH 117. General Chemistry II. 3 Hours.
Solutions, chemical kinetics, chemical thermodynamics, chemical equilibrium and special topics (organic, biochemistry, descriptive chemistry) Writing assignments structured to build on scientific reasoning. Concurrent enrollment in CH 117R General Chemistry II Recitation required. (Core Area III). Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: CH 115 [Min Grade: C]

CH 117R. General Chemistry II Recitation. 0 Hours.
General Chemistry II Recitation is used to build problem-solving skills in a study-group environment. Included in these sections are homework, quizzes, lecture related problems, and exams. Concurrent enrollment in CH 117 General Chemistry II required.

CH 118. General Chemistry II Laboratory. 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 117. Writing assignments structured to build on scientific reasoning. Concurrent enrollment or prior completion of CH 117 General Chemistry II recommended. (Core Area III) Quantitative Literacy is a significant component of this course (QEP).

CH 119. General Chemistry II Laboratory (Honors). 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 117. Writing assignments structured to build on scientific reasoning. (Core Area III) Quantitative Literacy is a significant component of this course (QEP). Permission of instructor required. Concurrent enrollment or prior completion of CH 117 strongly recommended.

CH 201. Research Methods in Chemistry. 3 Hours.
Comprehensive approach for developing research skills used in chemistry and biochemistry research laboratories. Permission of instructor required.
Prerequisites: CH 115 [Min Grade: C](Can be taken Concurrently)

CH 234. Organic Chemistry I Laboratory (Honors). 1 Hour.
Emphasizes placed on development of techniques used in organic research laboratories and scientific writing. Permission of instructor or enrollment in Honors College or Chemistry Scholars program required.
Prerequisites: CH 235 [Min Grade: C]

CH 235. Organic Chemistry I. 3 Hours.
Prerequisites: CH 117 [Min Grade: C]

CH 235R. Organic Chemistry I Recitation. 0 Hours.
Organic Chemistry I recitation is used to build problem-solving skills in study-group environments. Concurrent enrollment in CH 235 Organic I required.

CH 236. Organic Chemistry I Laboratory. 1 Hour.
Techniques of organic chemistry. Synthesis, purification, and characterization of organic compounds. Concurrent enrollment or prior completion of CH 235 strongly recommended.
Prerequisites: CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

CH 237. Organic Chemistry II. 3 Hours.
Reactions of aromatic compounds and carbonyl containing functional groups: aldehydes, ketones, acids, esters and amides. Molecules of biological interest, such as proteins and carbohydrates. Concurrent enrollment in CH 237R Organic II Recitation required.
Prerequisites: CH 235 [Min Grade: C]

CH 237R. Organic Chemistry II Recitation. 0 Hours.
Organic Chemistry II recitation is used to build problem-solving skills in study-group environments. Concurrent enrollment in CH 237 Organic Chemistry II required.
CH 238. Organic Chemistry II Laboratory. 1 Hour.
Synthesis, purification, and characterization of organic compounds using instrumental analysis and identification of unknowns. Concurrent enrollment or prior completion of CH 237 strongly recommended.
Prerequisites: CH 235 [Min Grade: C] and (CH 234 [Min Grade: C] or CH 236 [Min Grade: C])

CH 239. Organic Chemistry II Laboratory (Honors). 1 Hour.
Synthesis, purification and characterization of organic compounds using instrumental analysis, molecular modeling, scientific writing and oral presentation. Permission of instructor or enrollment in Honors College or Chemistry Scholars program required.
Prerequisites: CH 237 [Min Grade: C]

CH 297. Undergraduate Research Experiences. 1 Hour.
Research experience in selected areas of chemistry under supervision of faculty mentor. GPA of 2.5 in chemistry courses, permission of instructor and chemistry academic advisor required.

CH 325. Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics. 4 Hours.
Thermodynamics, chemical equilibria, and chemical kinetics. Lecture and laboratory. Prior completion of PH 221 and CH 355 strongly recommended. Prior completion or concurrent enrollment in MA 227 strongly recommended. Concurrent enrollment in CH 325L Physical Chemistry I Lab required.
Prerequisites: CH 117 [Min Grade: C] and MA 126 [Min Grade: C] and (PH 201 [Min Grade: C] or PH 202 [Min Grade: C] or PH 201 [Min Grade: C])

CH 325L. Thermodynamics and Chemical Kinetics Laboratory. 0 Hours.
Thermodynamics and chemical kinetics laboratory required with CH 325 lecture. Concurrent enrollment in CH 325 Physical Chemistry I required.

CH 326. Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy. 3 Hours.
Quantum mechanics, chemical bonding, and molecular spectroscopy. Laboratory work correlated with lecture material. Prior completion of CH 325 and MA 227 strongly recommended.
Prerequisites: CH 427 [Min Grade: C](Can be taken Concurrently), CH 117 [Min Grade: C] and MA 126 [Min Grade: C] and (PH 202 [Min Grade: C] or PH 222 [Min Grade: C]) and CH 427 [Min Grade: C](Can be taken Concurrently)

CH 326L. Physical Chemistry II Laboratory: Structure/Bonding and Molecular Spectroscopy. 0 Hours.
Structure/bonding and molecular spectroscopy laboratory required with CH 326 lecture. Concurrent enrollment in CH 326 Physical Chemistry II required.

CH 345. Inorganic Chemistry: Principles and Applications of Chemical Periodicity. 4 Hours.
Systematic coverage of descriptive chemistry. Chemical reactivity using structural and electronic parameters. Development of chemical understanding and intuition of elements and their compounds, as well as industrial and environmental applications. Lecture and laboratory. Concurrent enrollment in CH 345L Inorganic Chemistry: Principles and Applications of Chemical Periodicity Lab required.
Prerequisites: CH 237 [Min Grade: C] and (CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

CH 345L. Inorganic Chemistry Lab: Principles and Applications of Chemical Periodicity. 0 Hours.
Principles and Applications of Chemical Periodicity Laboratory required with CH 345 lecture. Concurrent enrollment in CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity required.

CH 355. Quantitative Analysis. 4 Hours.
Principles of analytical measurements, statistical and volumetric techniques, spectrophotometric analysis, and chromatography, with emphasis on equilibrium and applications. Lecture and laboratory. Concurrent enrollment in CH 355L Quantitative Analysis Lab required.
Prerequisites: CH 117 [Min Grade: C]

CH 355L. Quantitative Analysis Laboratory. 0 Hours.
Emphasizing quantitative analysis laboratory. Concurrent enrollment in CH 355 Quantitative Analysis required.

CH 391. Cooperative Education in Chemistry. 2-3 Hours.
Analysis of the concepts and models of chemistry with emphasis on computational skills for chemistry and science teachers. Appropriate for students seeking certification as chemistry or science teachers. Junior or senior standing and minimum GPA of 2.5 or above required. Requires permission of and evaluation by appropriate faculty advisor.

CH 416. Chemical Demonstrations I. 3 Hours.
Demonstration and analysis of safe, practical and effective experiments suitable for middle/high school students. At least 50 demonstrations will be performed. Not applicable to a major or minor in chemistry. Requires permission of instructor.

CH 417. Chemical Demonstrations II. 3 Hours.
Demonstration and analysis of safe, practical and effective experiments suitable for middle/high school students. At least 50 demonstrations will be performed. Not applicable to a major or minor in chemistry. Requires permission of instructor.

CH 427. Molecular Structure and Spectroscopy Laboratory, 1 Hour.
Laboratory with emphasis on structure/bonding in main group and transition metal compounds. Laboratory will utilize molecular orbital theory and molecular spectroscopy (including nuclear magnetic resonance (NMR), infrared(IR), ultra-violet-visible(UV-vis), and mass(ms) spectroscopy and X-ray crystallography.
Prerequisites: CH 117 [Min Grade: C] and MA 126 [Min Grade: C] and (PH 202 [Min Grade: C] or PH 222 [Min Grade: C]) and CH 237 [Min Grade: C]

CH 429. Special Topics in Physical Chemistry. 1-3 Hour.
Special Topics in selected areas of physical chemistry under the supervision of faculty sponsor. Requires permission of instructor.

CH 439. Special Topics in Inorganic Chemistry. 1-3 Hour.
Special Topics in selected areas of organic chemistry under the supervision of faculty sponsor. Requires permission of instructor.

CH 440. Transition Metal Chemistry. 3 Hours.
Relationship between bonding, structure, and properties of compounds including reactions, mechanisms, and catalysis of organometallic and bioinorganic chemistry.
Prerequisites: CH 345 [Min Grade: C]

CH 449. Special Topics In Inorganic Chemistry. 1-3 Hour.
Special Topics in selected areas of inorganic chemistry under the supervision of faculty sponsor. Requires permission of instructor.

CH 450. Instrumental Analysis. 4 Hours.
Focus on modern analytical chemistry instrumentation including chemical separations, spectroscopies (atomic absorption, infrared, UV-visible, fluorescence), mass spectroscopy, and thermal analysis. Concurrent enrollment in CH 450L Instrumental Analysis Laboratory is required and correlated with lecture material.
Prerequisites: CH 355 [Min Grade: C]
CH 450L. Instrumental Analysis Laboratory. 0 Hours.
Instrumental Analysis Lab. Concurrent enrollment in CH 450 Instrumental Analysis is required.

CH 451. Chemometrics. 3 Hours.
Introduction to basic data analysis techniques that include testing hypotheses, establishing tendencies and correlations, experimental design, etc. The course is designed to provide a support to a research chemist in effectively solving everyday problems associated with production and interpretation of experimental data.

CH 459. Spec Topics in Analytical Chem. 1-3 Hour.
Special Topics in selected areas of analytical chemistry under the supervision of faculty sponsor. Requires permission of instructor.

CH 460. Fundamentals of Biochemistry. 3 Hours.
Overview of biochemical principles; chemistry of aqueous solutions, biochemical building blocks including amino acids, carbohydrates, lipids, and nucleotides; examination of metabolic pathways and enzymes that mediate catabolic and anabolic metabolism of carbohydrates, lipids, amino acids, and nucleic acids. Application of clinical correlations of metabolism to human nutrition and disease. This course is designed for Chemistry majors as well as students interested in medicine, dentistry, optometry, or pharmacy.
Prerequisites: CH 237 [Min Grade: C]

CH 461. Advanced Biochemistry I. 3 Hours.
Protein structure and function, enzymology, DNA structure, prokaryotic replication, transcription, and protein synthesis. Membrane structure and function, carbohydrate structure and function. Methods for isolating and characterizing macromolecule structure and function including chromatography, gel electrophoresis, CD, UV, and fluoresceence spectroscopy, mass spectroscopy, X-ray crystallography and nuclear magnetic resonance spectroscopy.
Prerequisites: CH 460 [Min Grade: C]

CH 462. Advanced Biochemistry II. 3 Hours.
Continuation of Advanced Biochemistry I focusing on eukaryotic replication, transcription, translation, regulation of gene expression, genomics, proteomics, biological signaling.
Prerequisites: CH 461 [Min Grade: C]

CH 463. Biochemistry Laboratory. 3 Hours.
Introduction to modern biochemical techniques used for the expression, isolation, and characterization of proteins and other biological macromolecules.
Prerequisites: CH 355 [Min Grade: C] and CH 460 [Min Grade: C]

CH 464. Physical Biochemistry Laboratory. 3 Hours.
Physical/analytical approaches (including mass spectroscopy and NMR) toward determination of macromolecular structures, ligand binding, and enzymology.
Prerequisites: CH 325 [Min Grade: C] and CH 355 [Min Grade: C] and CH 460 [Min Grade: C]

CH 465. Structural Biochemistry. 3 Hours.
Principles of macromolecular structure, emphasizing proteins, nucleic acids, and macromolecular assemblies. Computational methods used to teach principles and modeling software used for construction of computer models of proteins and nucleic acids. Lecture and computer Laboratory.
Prerequisites: CH 325 [Min Grade: C] and CH 460 [Min Grade: C]

CH 469. Special Topics in Biochemistry. 1-3 Hour.
Special topics in selected areas of biochemistry, biophysical chemistry, or structural biochemistry under supervision of faculty sponsor. Requires permission of instructor.
Prerequisites: CH 462 [Min Grade: C]

CH 471. Medicinal Chemistry and Drug Discovery. 3 Hours.
Emphasis in design and synthesis strategies for biologically active compounds directed toward common macromolecular drug targets. Selected examples of successful design for clinically used drug classes are presented.
Prerequisites: CH 237 [Min Grade: C] and CH 460 [Min Grade: C]

CH 472. Chemistry of Natural Products. 3 Hours.
The principal focus of this course will be the introduction of synthesis and medicinal chemistry of natural products. Drug discovery using natural products, with specific examples in the areas of antibacterial, anticaner, and analgesic drugs will be introduced. An overview of structural classes, biosynthetic pathways and application of asymmetric synthesis in the synthesis of specific examples from each class will be discussed. This course is intended for undergraduate students at the senior level. Prior completion of prerequisite courses with a grade of B or better strongly recommended.
Prerequisites: CH 234 [Min Grade: B], CH 235 [Min Grade: C] and CH 234 [Min Grade: C] or CH 236 [Min Grade: C] and CH 237 [Min Grade: C] and CH 238 [Min Grade: C] or CH 239 [Min Grade: C]

CH 480. Polymer Chemistry I. 4 Hours.
Basic chemical principles of polymers with the focus on synthesis, characterization, and applications of synthetic and biological macromolecules. Prior completion of CH 325, CH 326 and CH 355 recommended.
Prerequisites: CH 237 [Min Grade: C] or MSE 350 [Min Grade: C]

CH 480L. Polymer Chemistry I Laboratory. 0 Hours.
Polymer Chemistry I Laboratory. Concurrent enrollment in CH 480 Polymer Chemistry I required.

CH 481. Polymer Chemistry II. 4 Hours.
Fundamentals of chemical, physical, and molecular properties of polymers in bulk and solution. Concurrent enrollment in CH 481L Polymer Chemistry II Laboratory required.
Prerequisites: CH 237 [Min Grade: C] or MSE 350 [Min Grade: C]

CH 481L. Polymer Chemistry II Laboratory. 0 Hours.
Polymer Chemistry II Laboratory. Concurrent enrollment in CH 481 Polymer Chemistry II required.

CH 483. Chemistry of Polymers and Polymeric Materials I. 3 Hours.
Basic chemical principles of polymers with the focus on synthesis, characterization, and applications of synthetic and biological macromolecules. No laboratory is required. This course sequence is for undergraduate engineering majors (B.S. in Bioengineering and Materials Sciences). The laboratory accompanying Polymer Chemistry I is NOT required for these students.
Prerequisites: CH 237 [Min Grade: C] or MSE 281 [Min Grade: C]

CH 484. Chemistry of Polymers and Polymeric Materials II. 3 Hours.
Fundamentals of chemical, physical and molecular aspects of polymers in bulk and solution. No laboratory is required. This course sequence is for undergraduate engineering majors (B.S. in Bioengineering and Materials Sciences). The laboratory accompanying Polymer Chemistry II is NOT required for these students.
Prerequisites: CH 237 [Min Grade: C] or MSE 281 [Min Grade: C]

CH 493. Chemistry in Culture & Ethics. 3 Hours.
Designed to explore the impact of chemical innovations on society; challenges students to consider ethical use of chemical innovations and broader impacts of chemistry in society. Writing assignments are structured to build on scientific reasoning. Capstone course for Chemistry majors.
Prerequisites: CH 237 [Min Grade: C]
CHI 203. Intermediate Chinese Language & Culture. 3 Hours.
This course aims to improve student linguistic and cultural fluency necessary for functioning in the Chinese-speaking world. Class activities will consist of communicative exercises such as role-playing. While emphasis will be placed on oral skills, attention will also be given to the written Chinese that one encounters in daily life, particularly in signage and forms. Topics may include: Conversational Chinese in such settings as a restaurant, business, store, public transportation, airport, post office, hospital, home-stay, hotel, and local attractions.

CHI 204. Intermediate Chinese Language and Culture II. 3 Hours.
This course focuses on developing students reading and writing skills to increase Chinese literacy. It will also expand students vocabulary, grammatical understanding, listening and speaking.

Prerequisites: CHI 203 [Min Grade: C]

CHI 206. Chinese for the Professions. 3 Hours.
Intensive conversation and acquisition of vocabulary for the professionals while focusing on culture(s) of the Chinese-speaking world. Course Objectives: To further develop communicative competence within the cultural context of the Chinese-speaking world; To foster critical thinking skills, such as, problem-identification and solving, decision-making, anticipation and planning, client understanding, and negotiation techniques; To expand students’ functional vocabulary, in particular, the language of the Chinese-speaking professional world; To promote a better understanding of Chinese business culture; To develop professional basic writing skills.

CHI 290. Chinese for Study Abroad. 1-6 Hour.
This study-abroad Chinese course aims at improving students’ oral fluency. It will help students develop intermediary conversational skills as they study in total immersion. The emphasis will be on efficient target language production at the intermediate level, as well as an oral and comprehension skills, communicative strategies, and the acquisition of vocabulary relating to a variety of domains. The course content will also include discussion and analysis of current cultural topics. CHI 290 will be conducted entirely in Chinese.

CHI 299. Directed Readings in Chinese. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Chinese students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Chinese language and culture. Intermediate proficiency in reading, writing, listening and speaking Chinese is the targeted outcome.

CHI 390. Study Abroad: Chinese. 1-6 Hour.
Advanced program in a Chinese-speaking country. Course of study will vary according to array of approved offerings student interest. Permission of the Department Chair and Director for Study Away required.

CHI 399. Directed Readings: Chinese. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Chinese language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of the Chinese language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Chinese is the targeted outcome. Permission of the Department Chair required.

CLS-Clinical Laboratory Sci Courses

CM-Communication Management Courses
CMST—Communication Studies Courses

CMST 100. Media & Society. 3 Hours.
Examines the impact of mediated messages on society. What theories help to shape perception and understanding of the interplay between media, society, and human behavior.

CMST 101. Public Speaking. 3 Hours.
Effective public speaking. Analysis, research, organization, delivery, to enhance speaking performance.

CMST 103. History of Mass Media. 3 Hours.
The history of newspapers, books, magazines, radio, television, cinema, recording industry, and the internet, focusing on current events, civic responsibilities and the role, value of diversity when appropriate. Ethics and Civic Responsibility are significant components of this course.

CMST 105. Introduction to Human Communication. 3 Hours.
Communication and persuasion as ideas in Western thought, ranging from Greek to contemporary period.

CMST 210. Newswriting and Reporting I. 3 Hours.
Recognizing news, gathering information, and writing news. Though the emphasis is on newspaper journalism, this is a foundational news writing course for all mass communication majors and minors.
Prerequisites: EH 102 [Min Grade: B]

CMST 283. Visual Media Production I. 3 Hours.
Intro to digital video production camera operation, framing, composition, lighting and audio with both multi-camera and single camera applications.

CMST 300. Human Communication in Everyday Life. 3 Hours.
Learning to express what we mean and to understand others is the foundation of this course. Human communication will review the following basic concepts: Components of human communication, interpersonal relationships, perceptions, and relational concerns.

CMST 301. Classical Theories of Social Influence. 3 Hours.
Classical systems of rhetoric applied to contemporary theory building in communication. Works selected from among Sophists, as well as Plato and Aristotle.

CMST 305. Applied Communication Theory. 3 Hours.
Major theoretical approaches to issues involved in human communication. Various psychological and sociological conceptualizations of communication process.

CMST 306. Investigative Reporting. 3 Hours.
Gathering and writing in-depth news; covering courts, police, schools, and county and city governments.
Prerequisites: MC 210 [Min Grade: C] or CMST 210 [Min Grade: C] or MC 106 [Min Grade: C]

CMST 308. Newswriting and Reporting II. 3 Hours.
Practice in gathering and writing news, with experience in writing under pressure of deadlines and covering beats.
Prerequisites: CMST 210 [Min Grade: C] or MC 210 [Min Grade: C] or MC 106 [Min Grade: C]

CMST 309. Interviewing. 3 Hours.
Theory and practice in various types of interviews, such as employment, counseling, research, and journalistic.

CMST 310. Communications and Teamwork. 3 Hours.
Theories of small group communication and practice in decision making in various group formats as part of organizational structure.

CMST 311. Organizational Communication. 3 Hours.
Theories and models of communication in organizational settings. Analysis and diagnosis of communicative patterns and consideration of methods for implementing appropriate communication models in organizations.

CMST 315. Communication Leadership and Management. 3 Hours.
Theory and research on leadership and communication management. Specific attention to contexts in which leaders and managers function.

CMST 320. Introduction to Advertising. 3 Hours.
Survey of methods, techniques, and strategy involved in creating an advertising campaign.

CMST 322. Argumentation Theory. 3 Hours.
Bases of argument and nature of issues in controversy. Evidence, logic, refutation, and argumentative formats. Recommended for pre-law as well as general students.

CMST 339. Introduction to Public Relations. 3 Hours.
Survey of public relations in the United States. Relationships among marketing, advertising and public relations.

CMST 340. Public Relations Principles. 3 Hours.
Relationship of business, industrial, educational, health, and service institutions to audiences. Public relations as management function in areas of communication analysis, counseling, and public information activities.
Prerequisites: (CMST 210 [Min Grade: C] or MC 210 [Min Grade: C]) and (CMST 339 [Min Grade: C] or CM 339 [Min Grade: C] or MC 339 [Min Grade: C])

CMST 343. Public Relations Methods II. 3 Hours.
Graphics, brochure and newsletter design, slide shows, broadcast PSAs, and multimedia presentations.
Prerequisites: CMST 340 [Min Grade: C] or MC 340 [Min Grade: C]

CMST 350. Publication Editing and Design. 3 Hours.
News selection, copy editing, picture editing, and headline writing.
Prerequisites: CMST 210 [Min Grade: C] or CM 210 [Min Grade: C] or MC 106 [Min Grade: C]

CMST 356. Propaganda and Public Persuasion. 3 Hours.
Theory and practice of propaganda with emphasis on mass media as tools of propagandist. Nazi, Soviet, and U.S. propaganda analyzed and critiqued in context of communication theory and ethics.

CMST 360. Feature Writing. 3 Hours.
Finding subjects, collecting information, interviewing, writing, and marketing magazine and newspaper features.
Prerequisites: CMST 210 [Min Grade: C] or MC 210 [Min Grade: C] or MC 106 [Min Grade: C]

CMST 370. Fundamentals of Broadcast Journalism. 3 Hours.
Broadcasting technology, history of radio and television, economics of broadcasting, government regulation of industry, and assessment of medium in society.

CMST 371. Copywriting for Broadcast Media. 3 Hours.
Copywriting for freelance, in-station, agency, corporate in-house, and institutional settings.
Prerequisites: CMST 103 [Min Grade: C] or MC 101 [Min Grade: C]

CMST 380. Health Communication. 3 Hours.
Bases of theory and practice of communication in health-care setting. Emphasis on communication contexts and relationships.
CMST 382. Current Issues in Health Communication. 3 Hours.
A project-based course in the current methods of communicating health information. Students will research the foundations of communication strategies in health care and plan a program of health information to be tested with an actual population. Email, telephone health, are just two areas of study for students. Students should plan for some time to be devoted to a community project.

CMST 383. Visual Media Production II. 3 Hours.
Advanced digital video production for media applications on the web, television and film.
Prerequisites: CMST 283 [Min Grade: C] or MC 283 [Min Grade: C]

CMST 400. Professional Presentations. 3 Hours.
Advanced speaking and delivery techniques in professional settings. Audience analysis, professional delivery, research, and application of theories of persuasion.

CMST 401. Instructional Communication. 3 Hours.
Communication problems in the classroom. Translation of data into lecture discussion. Empirical research on verbal and nonverbal elements of effective presentation.

CMST 402. Mass Communication Law. 3 Hours.
Legal limitations and privileges affecting publishing and broadcasting. Major court decisions. Fair comment, libel, right of privacy, fairness doctrine, and license renewal.

CMST 405. Contemporary Philosophies of Communication. 3 Hours.
Twentieth-century systems of Western rhetoric. Concepts selected from among works of Burke, Weaver, Toulmin, Perelman, Richards, and McLuhan.

CMST 411. Organizational Communication Project. 3 Hours.
Theory and research in communication audits of organizations.
Prerequisites: CMST 311 [Min Grade: C] or CM 311 [Min Grade: C]

CMST 413. Nonverbal Communication. 3 Hours.
Elements of nonverbal behavior (physical appearance, gestures, space, voice) which affect communication in person-to-person situations.

CMST 414. Language and Thought. 3 Hours.

CMST 415. Intercultural & International Communication. 3 Hours.
Communication problems in intercultural and multicultural contexts. Interpretations and otherness. Ethnocentrism and culture. Analysis of one culture interpreting another, with emphasis on modern societies.

CMST 416. Issues in Global Communication. 3 Hours.

CMST 417. Cyborg Communication. 3 Hours.
The study of how people use online communities to mirror, extend, idealize and fantasize their everyday lives. Exploration of how online communities are formed, maintained and dissolved will be made.

CMST 440. Public Relations Methods I. 3 Hours.
Planning and executing ongoing programs and campaigns to improve organizational and institutional relations with publics. Preparing and distributing news releases, reports, letters, pamphlets, position papers, public statements, speeches, and backgrounder.
Prerequisites: CMST 340 [Min Grade: C] or MC 340 [Min Grade: C]

CMST 442. Conducting Public Relations Campaigns. 3 Hours.
National and local programs that illustrate good and bad practices. Student teams research, plan, and design public relations campaign for client.

CMST 455. Seminar in Political Communication. 3 Hours.
Emerging cross-disciplinary field of political communication. Literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.

CMST 458. Media Criticism. 3 Hours.
Rhetorical systems for appraising persuasive messages and campaigns in twenty-first century.

CMST 460. Communication and Social Movements in America. 3 Hours.
Exploration of role of public communication in political, religious, social, and economic evolution of America. Movements include war and peace, revolution, slavery, feminist concerns, and industrial change.

CMST 461. Media Economics. 3 Hours.
Basic economic principles in the theories of Adam Smith, Davis Richardo and Karl Marx. Economy and communication as part of a social life. What’s the value? Value in linguistics and economics. F. von Hayeck and the idea of pricing as a means of signaling. Pricing and consumption of goods in Industrial Society. Understanding media from the viewpoint of economic concepts and procedures.

CMST 480. Seminar in Health and Medical Communication. 3 Hours.
Advanced communication theory and research in health-care setting. Impact of interpersonal, organizational, and mass communication policy in field of human health and medicine.

CMST 481. Communication and Aging. 3 Hours.
Biological, neurological, and socio-psychological effects of aging on communication process. Communication with elderly in various health and medical contexts.

CMST 483. Visual Media Production III. 3 Hours.
Applied advanced digital video production.
Prerequisites: CMST 383 [Min Grade: C] or MC 383 [Min Grade: C]

CMST 491. Internship. 1-3 Hour.
Students who meet eligibility requirements may take three hours of academic credit per semester for participating in an advisor approved internship experience. All internships require a minimum of 70 hours of work per academic credit per semester.

CMST 492. Independent Study. 1-3 Hour.
The purpose of this class is to provide the student with an opportunity to conduct significant research under the direct supervision of a Communication Studies faculty member. This research is to be an extension of an existing class or classes that you have already taken. It is not to be used to replace existing classes or fulfill requirements that existing classes already fill.

CMST 493. Special Topics in Communication Studies. 3 Hours.
Topics selected by faculty.

CMST 494. Communication Research Methods. 3 Hours.
Research questions, design, methodology, data gathering, and analysis. Practice in conducting, interpreting, and communicating research findings to public. Ethical considerations of conductions research with human subjects. Ethics and Civic Responsibility are significant components of this course (QEP). Junior standing required.
CMST 495. Mass Media and Society. 3 Hours.
Mass communication research from 1940s to present. Transactional model of communication and symbolic-interactionist perspective used among other approaches to evaluate role of mass media in twenty-first century America.

COP-Co-Operative Work Prog Courses

COP 011. Cooperative Work Program Full-Time. 0 Hours.
Cooperative work program full-time. Requires permission of the co-op office.

COP 012. Cooperative Work Program Part-Time. 0 Hours.
Cooperative Work Program part-time. Permission of the co-op office required.

COP 021. Cooperative Work Program Full-Time. 0 Hours.
Cooperative work program full-time. Permission of the co-op office required.

COP 022. Cooperative Work Program Part-Time. 0 Hours.

CS-Computer Science Courses

CS 100. Computational Thinking I. 4 Hours.
Fundamental concepts of programming. Syntax and semantics of basic Java. Built-in data types, arrays, flow control, functions, overloading, I/ O. Use of computational thinking and computer programming as problem solving tools in all disciplines. This course has a laboratory component. Writing is a significant component of this course (QEP). This course may be taken as a terminal course by non-CIS majors or in sequence with CS 200 as a substitute for CS 201 for CIS majors.

CS 100L. Computational Thinking I Laboratory. 0 Hours.
Project oriented hands-on approach lab to accompany CS 100.

CS 101. Fluency With Information Technology. 3 Hours.
Skills, concepts, and capabilities associated with Information Technology. Fundamentals of hardware, software, human-computer interfaces, networking, multi-media, databases, eCommerce, privacy and digital security. Project oriented hands-on approach. This course has a laboratory component.

CS 101L. Fluency With Information Technology Laboratory. 0 Hours.
Project oriented hands-on approach lab to accompany CS 101.

CS 109. Smart Phone and Wireless Technology. 3 Hours.
Smart phone hardware, operating systems and applications together with a review of current and emerging wireless Technologies. Accompanying lab is required.

CS 109L. Smart Phone Wireless Technology Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 109.

CS 199. Special Topics: Outreach Training. 1-3 Hour.
Selected topics in Computer Science. This course may or may not have a laboratory component.

CS 199L. Special Topics Lab. 0 Hours.
Project oriented hands-on approach lab. Mandatory first day of attendance.

CS 200. Computational Thinking II. 4 Hours.
Fundamental concepts of object oriented programming. Syntax and semantics of advanced Java, an object oriented programming language. Principles of program design and algorithm development strategies. Classes, abstract data types, exception handling, debugging. Use of computational thinking and computer programming as problem solving tools in all disciplines. This course has a laboratory component. Writing is a significant component of this course (QEP). This course, in sequence with CS100, may be taken as a terminal course by non-CIS majors. Students may not take BOTH CS200 and CS201.
Prerequisites: CS 100 [Min Grade: C]

CS 200L. Computational Thinking II Laboratory. 0 Hours.
Project oriented hands-on approach lab to accompany CS 200.

CS 201. Introduction to Object Oriented Programming. 4 Hours.
Fundamental concepts of object oriented programming. Syntax and semantics of Java, an object oriented programming language. Principles of program design and algorithm development strategies. Classes, abstract data types, arrays, flow control, functions, overloading, exception handling, debugging, I/O applets. This course has a laboratory component. Writing is a significant component of this course (QEP).
Prerequisites: MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C] or MA 126 [Min Grade: C] or MA 227 [Min Grade: C]

CS 201L. Introduction to Object Oriented Programming Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 201.

CS 250. Discrete Structures. 3 Hours.
Discrete mathematics for computer science, including elementary propositional and predicate logic, sets, relations, functions, counting, elementary graph theory, proof techniques including proof by induction, proof by contradiction, and proof by construction.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C] or MA 126 [Min Grade: C] or MA 227 [Min Grade: C]

CS 299. Special Topics in Computer Science. 1-3 Hour.
Selected topics in Computer Science.

CS 302. Object-Oriented Design. 4 Hours.
CS302 is a continuation of CS201 and emphasizes concepts of object-oriented software design (OOD). Topics include recursion, inheritance, generics, class design, container classes, user interfaces, design patterns, and frameworks for reflection, parallelism, and networking. This course has a laboratory component.
Prerequisites: CS 201 [Min Grade: C] or CS 200 [Min Grade: C]

CS 302L. Object-Oriented Design Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 302.

CS 303. Algorithms/Data Structures. 4 Hours.
Techniques for design and analysis of algorithms; efficient algorithms for sorting, searching, graphs, and string matching; and design techniques such as divide-and-conquer, recursive backtracking, dynamic programming, and greedy algorithms.
Prerequisites: CS 250 [Min Grade: C] and CS 302 [Min Grade: C]

CS 303L. Algorithms and Data Structures Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 303.

CS 304. Object-Oriented Programming in C++. 1 Hour.
Syntax, semantics, and concepts of C++ programming, templates, parametrized classes, generic programming, standard template library.
Prerequisites: CS 302 [Min Grade: C]
CS 305. Introduction to Python Programming. 1 Hour.
Basic syntax and data types, data structures, functions, scoping, regular expressions and pattern matching, libraries and modules, program composition, best practices. Solving practical computing problems using Python.

CS 306. Introduction To Perl Programming. 1 Hour.
Basic syntax and data types, data structures, functions, scoping, regular expressions and pattern matching, libraries and modules, program composition, best practices.
Prerequisites: CS 302 [Min Grade: C]

CS 307. Advanced Perl Programming. 3 Hours.
Prerequisites: CS 306 [Min Grade: C]

CS 309. Programming in Mathematica. 1 Hour.
Syntax, semantics and concepts of programming in Mathematica: expressions, lists, patterns and rules, functional programming, procedural programming, recursion, numeric, strings, graphics and visualization, dynamic expressions, optimization, and applications.
Prerequisites: CS 201 [Min Grade: C]

CS 330. Computer Organization and Assembly Language Programming. 3 Hours.
Register-level architecture of modern digital computer systems, digital logic, machine-level representation of data, assembly-level machine organization, and alternative architectures. Laboratory emphasizes machine instruction execution, addressing techniques, program segmentation and linkage, macro definition and generation, and computer solution of problems in assembly language.
Prerequisites: CS 250 [Min Grade: C] and (CS 200 [Min Grade: C] or CS 201 [Min Grade: C])

CS 333. Unix Operating System Fundamentals. 1 Hour.
Unix architecture, concepts, and principles; shell concepts and principles filters, I/O redirection, environment, process management, runtime architecture.
Prerequisites: (CS 200 [Min Grade: C] and MA 105 [Min Grade: C]) or CS 201 [Min Grade: C]

CS 334. Internetworking with TCP/IP. 3 Hours.
Prerequisites: CS 250 [Min Grade: C]

CS 334L. Internetworking and Intranets Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 334. Mandatory first day of class.

CS 336. Network Security. 3 Hours.
Conventional (symmetric and public-key cryptography). Message encryption and authentication. Secure communication between computers in a hostile environment, including E-mail (PGP), virtual private networks (IPSec), remote access (SSH), and E-commerce (SSL). Firewalls. Security of IEEE 802.11 wireless networks (WEP, WPA). Mandatory weekly Linux-based lab.
Prerequisites: CS 334 [Min Grade: C]

CS 336L. Network Security Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 336.

CS 350. Automata and Formal Language Theory. 3 Hours.
Finite-state automata and regular expressions, context-free grammars and pushdown automata, computability.
Prerequisites: CS 250 [Min Grade: C] and MA 125 [Min Grade: C]

CS 355. Probability and Statistics in Computer Science. 3 Hours.
Prerequisites: (CS 200 [Min Grade: C] or CS 201 [Min Grade: C]) and CS 250 [Min Grade: C]

CS 391. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 392. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 393. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 394. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 395. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 398. Undergraduate Honors Research. 1-3 Hour.
Research project under supervision of faculty sponsor. Prerequisite: 18 semester hours in computer and information sciences with grade point average of 3.5 in computer and information sciences and permission of instructor.

CS 399. Directed Readings. 1-3 Hour.
Selected readings, research and project development under the direction of a faculty member. Permission of instructor.

CS 401. Programming Languages. 3 Hours.
Study major programming paradigms, their realization in programming languages, and their impact on application design and implementation.
Prerequisites: CS 303 [Min Grade: C] and CS 350 [Min Grade: C]

CS 402. Compiler Design. 3 Hours.
Study the design and implementation of compilers, including front-end (lexer, parser, type checking), to mid-end (intermediate representations, control-flow analysis, dataflow analysis, and optimizations) to back-end (code generation). Students will get hands-on experience by implementing several compiler components.
Prerequisites: CS 401 [Min Grade: C]

CS 410. Database Management Systems. 3 Hours.
Relational model of databases, structured query language, normalized structure of database management systems based on relational model, and security and integrity of databases.
Prerequisites: CS 303 [Min Grade: C]

CS 415. Multimedia Databases. 3 Hours.
Multimedia information processing, multimedia database architecture, multimedia database retrieval, semantic models for multimedia databases.
Prerequisites: CS 303 [Min Grade: C]
CS 420. Software Engineering. 3 Hours.
Design and implementation of large-scale software systems, software
development life cycle, software requirements and specifications,
software design and implementation, verification and validation, project
management and team-oriented software development. Writing and
Ethics and Civic Responsibility are significant components of this course
(QEP).
Prerequisites: CS 303 [Min Grade: C] and (CM 101 [Min Grade: C] or
CMST 101 [Min Grade: C]) and PHL 115 [Min Grade: C]

CS 425. Metrics and Performance. 3 Hours.
Computer Systems addressed in this course primarily are web based
systems and capacity planning is a principal theme. However, the
queueing theory and statistical analysis approaches are applicable to
conventional computing systems and, in fact, modeling of these
latter constitute relevant background information that is developed and
exploited for web systems analysis.
Prerequisites: CS 303 [Min Grade: C]

CS 430. Computer Architecture. 3 Hours.
Introduction to computer architecture, including memory subsystems,
direct-mapped and set-associative cache and multi-level cache
subsystems, direct-access devices including RAID and SCSI disk drives,
processor pipelining including super-scalar and vector machines, parallel
architectures including SMP, NUMA and distributed memory systems,
Interrupt mechanisms, and future microprocessor design issues.
Prerequisites: CS 330 [Min Grade: C]

CS 431. Distributed Systems. 3 Hours.
Introduction to distributed systems, distributed hardware and software
concepts, communication, processes, naming, synchronization,
consistency and replication, fault tolerance, security, client/server
computing, web technologies, enterprise technologies.
Prerequisites: CS 303 [Min Grade: C] and CS 330 [Min Grade: C]

CS 432. Parallel Computing. 3 Hours.
Introduction to parallel computing architectures and programming
paradigms. Theoretical and practical aspects of parallel programming
and problem solving. Design, development, analysis, and evaluation of
parallel algorithms.
Prerequisites: CS 303 [Min Grade: C] and CS 330 [Min Grade: C] or
MA 360 [Min Grade: C]

CS 433. Operating Systems. 3 Hours.
Introduction to operating systems. This course looks at the internal
design and operation of a modern operating system. Topics include
interrupt handling, process scheduling, memory management, virtual
memory, demand paging, file space allocation, file and directory
management, file/user security and file access methods. Several
comparisons among current operating systems are used, with attention to
Windows and Unix in particular.
Prerequisites: CS 330 [Min Grade: C]

CS 434. Virtualization. 3 Hours.
Theory and practice of virtualization. Origins, history, technical and
economic motivations. Relationship to network operating systems and
operating system architecture. Simulation, Emulation, Virtualization of
CPUs, networks, storage, desktops, memory, devices, and combinations
thereof. Different approaches to virtualization, including hardware
assists and software-only techniques. Techniques, approaches, and
methodologies for scale-out and scale-up computing, including security,
performance and economic concerns.
Prerequisites: CS 433 [Min Grade: C]

CS 435. Network Programming. 3 Hours.
Remote procedure call and client-server mechanisms. Protocol definition
and compilation; client and server stubs and application code; transport
independence; multiple client and server systems. Applications, e.g.,
remote database query and update and image filtering and archiving;
systems programming and file systems contexts.
Prerequisites: CS 334 [Min Grade: C]

CS 436. Computer Security. 3 Hours.
Study of computer security including assurance, authorization,
authentication, key distribution, encryption, threats including phishing
and key logging, and related distributed computing issues. Theory and
practical applications.
Prerequisites: CS 303 [Min Grade: C] and CS 330 [Min Grade: C]

CS 437. Cybercrime and Forensics. 3 Hours.
Fundamental concepts of bioinformatics and use of bioinformatics
tools from the viewpoint of a bioinformaticist/biologist. Introduction
to bioinformatics algorithms. This course is the first of a two-course
sequence CS440/CS441 that is designed to provide an introduction to
selected topics in bioinformatics. This course will emphasize the use of
bioinformatics tools as well as the underlying algorithms, but it is not a
programming course. Writing is an integral part of this course.
Prerequisites: CS 303 [Min Grade: C] and CS 330 [Min Grade: C]

CS 440. Bioinformatics I. 3 Hours.
Introduction to computational methodologies in bioinformatics.
Prerequisites: CS 303 [Min Grade: C]

CS 441. Bioinformatics II. 3 Hours.
Introduction to bioinformatics algorithms. This course is the second
of a two-course sequence CS440/CS441 that is designed to provide an
introduction to bioinformatics. This course will emphasize the
implementation of fundamental bioinformatic algorithms. It is a
programming course. Writing and oral presentations are integral parts
of this course. Students are required to document their programs and
provide oral presentations describing the design and implementation of
global alignments, local alignments, the use of amino acid substitution
matrices and BLAST.
Prerequisites: CS 440 [Min Grade: C]

CS 443. Security & Privacy in Cloud Computing. 3 Hours.
This course focuses on the security and privacy issues in Cloud
Computing systems. While the cloud computing paradigm gains more
popularity, there are many unresolved issues related to confidentiality,
integrity, and availability of data and computations involving a cloud.
In this course, we examine cloud computing models, look into the threat
model and security issues related to data and computation outsourcing,
and explore practical applications of secure cloud computing.
Prerequisites: CS 401 [Min Grade: C]

CS 444. Network Forensics. 3 Hours.
This course covers concepts and methods involved in unraveling network
intrusions, DDoS, and other untoward network behavior.
Prerequisites: CS 303 [Min Grade: C] and CS 336 [Min Grade: C]

CS 447. Biomedical Modeling. 3 Hours.
Modeling and analysis of biomedical datasets. Aspects of image
processing and shape modeling related to biomedical datasets,
morphometry, alignment, surgical planning, case studies.
Prerequisites: CS 303 [Min Grade: C]
CS 455. Probability and Statistics in Computer Science. 3 Hours.
Introduction to Probability and Statistics with applications in Computer Science.
Topics include: probability, random variables, distributions, expected value,
variance, central limit theorem, and hypothesis testing. Prerequisites: CS 303 [Min Grade: C]

CS 460. Principles in Artificial Intelligence. 3 Hours.
This course provides an introduction to artificial intelligence. Topics include:
search algorithms, knowledge representation, expert systems, and machine learning.
Prerequisites: CS 303 [Min Grade: C] and CS 350 [Min Grade: C] or
CM 101 [Min Grade: C] and PHL 115 [Min Grade: C]

CS 462. Natural Language Processing. 3 Hours.
This course provides an introduction to Natural Language Processing (Computational Linguistics).
Topics include: language modeling, syntax, and semantics.
Prerequisites: CS 303 [Min Grade: C] and CS 355 [Min Grade: C] or
CS 460 [Min Grade: C]

CS 466. Games and Puzzles Seminar. 1 Hour.
This course will help students to be more competitive in the ACM programming contest by exploring numerous problem solving techniques and algorithms not covered in the traditional curriculum.
Prerequisites: CS 250 [Min Grade: C]

CS 467. Machine Learning. 3 Hours.
Introduction to machine learning, the design of algorithms that can make predictions about the future based on past experience.
Prerequisites: CS 355 [Min Grade: C] and CS 303 [Min Grade: C]

CS 470. Computer Graphics. 3 Hours.
Graphics architectures, geometric transforms, 3-D, object models, shading, intensity, hidden elements, color, advanced topics.
Prerequisites: CS 303 [Min Grade: C] and CS 350 [Min Grade: C]

CS 473. Computer Vision/Image Process. 3 Hours.
Digital image processing and analysis, edge and region operations, morphological filters, spectra techniques object recognition and description.
Prerequisites: CS 303 [Min Grade: C]

CS 474. 3D Printing. 3 Hours.
3D Printing: design, materials, and aesthetics. Students will design projects which result in unique artifacts created by 3D printing. Multi-disciplinary teams are encouraged.
Prerequisites: CS 303 [Min Grade: C]

CS 475. Visualization. 3 Hours.
Advanced Computer Graphics techniques aimed at "scientific visualization" applications.
Prerequisites: CS 303 [Min Grade: C]

CS 481. Simulation Models and Animations. 3 Hours.
Model Development using popular simulation languages, e.g., GPSS-H (with an introduction to SLX) interfacing to statistical and graphical systems, e.g., Excel, Open Office, or Calc Spreadsheet; interfacing to an animation system such as Proof Animation or Open GL.
Prerequisites: CS 303 [Min Grade: C]

CS 482. Simulation Methodology and Applications. 3 Hours.
Foundations for computer modeling and simulation, with accent on discrete systems; random number and process generation; statistical bases with probability and frequency distribution orientation; Monte Carlo experiments and general purpose modeling, e.g., in SLX.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 491. Special Topics. 3 Hours.
Special Topics in Computer Science.
Prerequisites: CS 303 [Min Grade: C]

CS 492. Special Topics. 3 Hours.
Special Topics in Computer Science.
Prerequisites: CS 303 [Min Grade: C]

CS 493. Special Topics. 3 Hours.
Special Topics in Computer Science.
Prerequisites: CS 303 [Min Grade: C]

CS 494. Special Topics. 3 Hours.
Special Topics in Computer Science.
Prerequisites: CS 303 [Min Grade: C]

CS 495. Special Topics. 3 Hours.
Special Topics in computer science.
Prerequisites: CM 101 [Min Grade: C] and PHL 115 [Min Grade: C]

CT-Cytotechnology Courses

CT 401. Gynecologic Cytopathology I. 6 Hours.
Cytology as a health profession; historical development, purpose, and ethics of cytology; proper use of the microscope; classification of cells and tissue; cell activity, injury, adaptation, degeneration, and death; cytogenetics; inflammation and repair; basic immunology; blood and hemodynamic disorders; anatomy, histology, and normal cytology of the female genital tract; cyclic changes in vaginal, cervical, and endometrial epithelium; histology and cytology of pregnancy and menopause; vaginal flora and parasites; hormonal cytology and cytologic effects of parasites, viruses, bacteria, and fungi.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]
CT 403. Lab Operations. 2 Hours.
Gynecologic and non-gynecologic specimen handling; routine and special preparatory techniques; special stains and ancillary diagnostic procedures; IHC, EM Flow Cytometry, FISH; record keeping, QA/AC procedures, litigation, proficiency testing automation, team work and conflict management.

CT 411. Non-Gynecologic Cytopathology I. 4 Hours.
Anatomy, histology, and normal and abnormal cytology of neoplastic and non-neoplastic lesions of the respiratory tract, urinary tract and gastrointestinal tract including rare/unusual diagnostic entities and seminar and journal club on related topics.

CT 412. Non-Gynecologic Cytopathology II. 5 Hours.
Anatomy, histology, and normal and abnormal cytology of neoplastic and non-neoplastic lesions of the serous cavities. Central nervous system and aspiration cytology from all areas of the body including rare/unusual diagnostic entities and seminar and journal club on related topics.

Prerequisites: CT 402 [Min Grade: C] and CT 422 [Min Grade: C]

CT 421. Gynecologic Cytopathology I Laboratory. 6 Hours.
Microscopic evaluation of anatomy, histology, and normal cytology of the female genital tract; cyclic changes in vaginal, cervical, and endometrial epithelium; histology and cytology of pregnancy and menopause; vaginal flora and parasites; hormonal cytology; and cytologic effects of parasites, viruses, bacteria, and fungi.

CT 422. Gynecologic Cytopathology II Laboratory. 3 Hours.
Microscopic evaluation of cytology of precancerous and malignant tumors of the female genital tract, degrees, and types of tumors; effects of radiation and chemotherapy.

CT 424. Non-Gynecologic Cytopathology I Laboratory. 6 Hours.
Microscopic evaluation of normal and abnormal cytology of neoplastic and non-neoplastic lesions of the respiratory tract, urinary tract and gastrointestinal tract including rare/unusual diagnostic entities.

CT 425. Non-Gynecologic Cytopathology II Laboratory. 3 Hours.
Microscopic evaluation of normal and abnormal cytology of diseases involving serous cavities with particular reference to tumor types and primary site of tumors; anatomy, histology, and normal and abnormal cytology of the central nervous system; aspiration cytology; and rare/unusual diagnostic entities.

Prerequisites: CT 422 [Min Grade: C] and CT 402 [Min Grade: C]

CT 480. Gynecologic Cytopathology Practice. 1 Hour.
Microscopic evaluation and interpretation of gynecologic glass slide specimens in a clinical laboratory setting. Students will evaluate gynecologic specimens with sufficient competence to issue the final report for a negative interpretation and prepare preliminary reports for all other cases, for review by the pathologist.

Prerequisites: CT 421 [Min Grade: C]

CT 490. Clinical Practicum I. 4 Hours.
Practice in preparation of cytologic specimens, evaluation of cytologic material and initial diagnostic workup under close supervision. The purpose is to provide the student with experience obtained in a professional setting.

CT 491. Clinical Practicum II. 4 Hours.
Intermediate level field experiences in all areas pertinent to the cytology laboratory. The purpose is to provide the student with experience obtained in a professional setting.

CT 492. Clinical Practicum III. 4 Hours.
Advanced practice in all areas pertinent to the cytology laboratory. The purpose is to provide the student with experience obtained in a professional setting. The student will be performing at an entry level capacity upon completion of this rotation.

Clinic Courses

CLN 211. Primary Eye Care Rotation I. 1 Hour.
Observation, examination, and recording of clinical data in primary care clinic. (Prerequisite OPT 141).

CLN 212. Community Eye Care I. 1 Hour.
Community Eye Care I.

CLN 221. Primary Eye Care Rotation II. 1 Hour.
Primary Eye Care Rotation II.

CLN 222. Community Eye Care I. 2 Hours.

CLN 231. Primary Eye Care Clinic I. 3 Hours.
Continuation of CLN 221. (Prerequisite OPT 221).

CLN 232. Clinic Rotation I Op Serv/VT. 1 Hour.

CLN 233. Community Eye Care II. 1 Hour.

CLN 240. Primary Care Clinic I. 3 Hours.
Examination, assessment, diagnosis, treatment, and management of primary eye care patients. (Prerequisites OPT 231, CLN 211, CLN 221, CLN 231).

CLN 241. Primary Eye Care Rotation IV. 1 Hour.

CLN 245. Community Eye Care II. 2 Hours.
Continuation of CEC sequence. (Prerequisite OPT 211).

CLN 248. Clinic Rotations. 1 Hour.

CLN 250. Primary Eye Care Clinic I. 3 Hours.

CLN 251. Primary Eye Care Clinic I. 2 Hours.

CLN 252. Clinical Rotation I. 1 Hour.

CLN 253. Community Eye Care III. 1 Hour.

CLN 254. Special Clinical Rotation I. 1.7 Hour.

CLN 255. Community Eye Care III. 2 Hours.

CLN 256. Clinical Rotation I. 2 Hours.

CLN 301. Primary Care Clinic II. 1 Hour.
Continuation of CLN 240. (Prerequisites OPT 231, CLN 211, CLN 221, CLN 231).

CLN 311. Primary Eye Care Clinic II. 2 Hours.

CLN 312. Clinical Rotation II. 2.5 Hours.

CLN 313. Community Eye Care III. 4 Hours.

CLN 315. Community Eye Care III. 1 Hour.
Continuation of CEC sequence. (Prerequisite OPT 221).

CLN 318. Clinic Rotations. 1 Hour.

CLN 319. Extended Clinical Experience I. 2 Hours.

CLN 320. Primary Care Clinic III. 1 Hour.

CLN 321. Primary Eye Care Clinic III. 2 Hours.

CLN 322. Clinical Rotation III. 2.5 Hours.

CLN 323. Community Eye Care IV. 1 Hour.

CLN 325. Community Eye Care IV. 1 Hour.

CLN 328. Clinic Rotations. 1 Hour.
CLN 329. Extended Clinic Experience II. 2 Hours.
CLN 330. Primary Care Clinic IV. 1 Hour.
CLN 331. Primary Eye Care Clinic IV. 3 Hours.
CLN 332. Pediatric Optometry Clinic I. 3 Hours.
CLN 333. Cornea & Contact Lens Clinic I. 3 Hours.
CLN 334. Oc Disease/Low Vision Clinic I. 3 Hours.
CLN 335. Special Clinical Rotation I. 2 Hours.
CLN 336. Externship I. 15 Hours.
CLN 338. Clinic Rotations. 1 Hour.
CLN 339. Extended Clinic Experience III. 2 Hours.
CLN 340. Primary Care Clinic V. 3 Hours.
Continuation of Primary Care Clinic.
CLN 341. Primary Eye Care Clinic V. 1 Hour.
CLN 342. Clinical Rotations V. 1 Hour.
CLN 343. Community Eye Care VII. 1 Hour.
CLN 343R. Ocular Dis/Low Vision Clinic I. 2.3 Hours.
CLN 344. Special Clinical Rotation I. 1 Hour.
CLN 345. Externship I. 10 Hours.
CLN 350. Primary Eye Care Clinic VI. 2.3 Hours.
CLN 351. Pediatric Optometry Clinic I. 2.3 Hours.
Increase proficiency in the examination, diagnosis and clinical management of patients in Primary Care Service, Optical Services and with special populations in an observational/assistive role: Ocular Disease/ Low Vision, Pediatric, and Contact Lens services. (Prerequisites OPT 231, CLN 211, CLN 221, CLN 231).
CLN 352. Cornea & Contact Lens Clinic I. 2.3 Hours.
CLN 353. Ocular Dis/Low Vis Clinic I. 2.3 Hours.
CLN 354. Special Clinical Rotation I. 1.7 Hour.
CLN 355. Externship I. 11 Hours.
CLN 356. Ocular Dis/ Low Vision Clinic. 1.2 Hour.
CLN 357. Pediatric Optometry Clinic. 1.2 Hour.
CLN 410. Primary Care Clinic V. 4 Hours.
Continuation of CLN 340. (Prerequisites OPT 320, CLN 240, CLN 310, CLN 320, CLN 330).
CLN 411. Pediatric Opt. Clinic II. 4 Hours.
Continuation of CLN 341. (Prerequisites OPT 319, OPT 320, OPT 326, CLN 240, CLN 310, CLN 320, CLN 330).
CLN 411A. Pediatric Optometry Clinic A. 2 Hours.
CLN 412. Cornea/Contact Lens Clinic II. 4 Hours.
Continuation of CLN 342. (Prerequisites OPT 317, OPT 320, CLN 240, CLN 310, CLN 320, CLN 330).
CLN 412A. Contact Lens Clinic A. 2 Hours.
CLN 413. Ocular Dis/Low Vis Clinic II. 4 Hours.
Continuation of CLN 343. (Prerequisites OPT 230, OPT 232, OPT 316, OPT 320, OPT 322, OPT 324, OPT 330, OPT 331, OPT 335, CLN 240, CLN 310, CLN 320, CLN 330).
CLN 414. Spec Clinical Rotation II. 4 Hours.
Continuation of CLN 344. (Prerequisites OPT 230, OPT 232, OPT 316, OPT 317, OPT 319, OPT 320, OPT 322, OPT 324, OPT 326, OPT 330, OPT 331, OPT 335, CLN 240, CLN 310, CLN 320, CLN 330).
CLN 415. Externship I. 20 Hours.
CLN 416. Externship II. 20 Hours.
CLN 419. Extended Clinic Experience VI. 9.2 Hours.
CLN 420. Primary Care Clinic VI. 4 Hours.
CLN 421A. Pediatric Optometry Clinic III. 2 Hours.
CLN 422. Cornea/Contact Lens Clinic III. 4 Hours.
CLN 422A. Contact Lens Clinic III. 2 Hours.
CLN 423. Ocular Dis/Low Vision Clin III. 4 Hours.
CLN 424. Special Clinic Rotations III. 4 Hours.
CLN 425. Externship I. 20 Hours.
CLN 426. Externship II. 20 Hours.
CLN 427. Externship III. 11 Hours.
CLN 429. Extended Clinic Experience II. 9.2 Hours.
CLN 430. Primary Eye Care Clinic VII. 2 Hours.
CLN 431. Pediatric Clinic IV. 2 Hours.
CLN 432. Contact Lens Clinic IV. 2 Hours.
CLN 432A. Contact Lens Clinic A. 1 Hour.
CLN 433. Ocular Disease/LV Clinic IV. 2 Hours.
CLN 434. Special Clinic Rotation IV. 2 Hours.
CLN 435. Externship I. 11 Hours.
CLN 436. Externship II. 11 Hours.
CLN 437. Externship III. 11 Hours.
CLN 438. Externship IV. 11 Hours.
CLN 440. Primary Eye Care Clinic VIII. 2 Hours.
Primary Eye Care.
CLN 440B. Primary Eye Care Clinic B. 1 Hour.
CLN 441. Pediatric Optometry Clinic V. 2 Hours.
CLN 442. Cornea & Contact Lens Clinic V. 2 Hours.
CLN 442B. Contact Lens Clinic B. 1 Hour.
CLN 443. Ocular Disease/Low Vis Clin V. 2 Hours.
CLN 444. Special Clinic Rotation V. 2 Hours.
CLN 445. Externship I. 11 Hours.
CLN 446. Externship II. 11 Hours.
CLN 447. Externship III. 11 Hours.
CLN 448. Externship IV. 11 Hours.
CLN 450. Externship II. 13 Hours.
Second rotation in private or institutional clinical settings off campus. (Prerequisites OPT 230, OPT 232, OPT 316, OPT 317, OPT 319, OPT 320, OPT 322, OPT 324, OPT 326, OPT 330, OPT 331, OPT 335, CLN 240, CLN 310, CLN 320, CLN 330, CLN 440) (Student not on academic probation).
CLN 456. Ocular Disease/LV Clinic. 1.2 Hour.
CLN 457. Pediatric Optometry Clinic. 1.2 Hour.
CLN 460. Externship III. 13 Hours.
CLN 490. Remedial Ocular Disease Clinic. 2 Hours.
CLN 491. Remedial Prereq Disease Clinic. 2 Hours.
Clinical Research Management Courses

Core Curriculum Courses

DB - Distribution Courses

DB 320. Distribution Management. 3 Hours.
Introduction to basic problems, concepts and management practices of distribution firms and manufacturing relationships. History of types of distributor organizations, functions and role of industrial distribution in the economy.

Prerequisites: MK 303 [Min Grade: C] (Can be taken Concurrently)

DB 430. Distribution Operations. 3 Hours.
Concepts of value added, profitability, inventory management, scheduling, decision support systems, facilities, and warehouse operations integrated with financial control of distributor operations. Case studies and industrial speakers.

Prerequisites: DB 320 [Min Grade: C] and AC 200 [Min Grade: C] and AC 201 [Min Grade: C] and IS 103 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 214 [Min Grade: C] and LS 246 [Min Grade: C] and LS 215 [Min Grade: C]

DB 435. Distribution Policies and Quality Issues. 3 Hours.
Cases incorporating current approaches and procedures for attaining optimum manufacturer/distributor/customer relationships. Distributor go-to-market channel strategies and management, B2B ecommerce strategy and applications, and strategic account management processes and systems. Market demand analysis, profitability, sales force strategies, multi-channel selling models, and other operational strategies and technologies used by industrial distributors.

Prerequisites: DB 320 [Min Grade: C] and AC 200 [Min Grade: C] and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] and LS 246 [Min Grade: C] and LS 215 [Min Grade: C] and QM 214 [Min Grade: C] and QM 215 [Min Grade: C] and BUS 101 [Min Grade: C] or BUS 102 [Min Grade: C]

DB 495. Distribution Directed Studies Practicum. 3 Hours.
Issues in managing distributors, both as suppliers for and customers of manufacturers and other businesses. Students work with host distributor/manufacturer on current and future distribution problem areas.

DCS-Digital Community Stud Courses

DCS 101. Media and Society. 3 Hours.
This course serves as an introduction to the theory and practice of media production. Topics include the practice of looking, a cross-cultural look at visual representation, and the impact of media on society.

DCS 150. Introduction to Film and History. 3 Hours.
This course will examine fiction and non-fiction films as socially significant documents. Students will receive an introduction to the techniques of film analysis in the class.

DCS 201. History of Documentary Film. 3 Hours.
This course will provide a history of the documentary tradition by studying the major stylistic movements, works, and filmmakers of non-fiction film and photography in the 20th century.

DCS 208. Women in Film. 3 Hours.
This course will provide a history of women in film, focusing on both women working in the film industry and the representation of women on screen. The course will focus on American film history, 1930's Hollywood to the present.

DCS 250. Community and Service. 3-6 Hours.
This service-learning course provides students the opportunity to explore social and community issues by volunteering with a local agency, non-profit or community group. Students will use multimedia to highlight their community partner, document their experience and share their interests. Methods such as participant observation and ethnographic field approaches will provide the framework for student exploration.

DCS 266. New Urbanism. 3 Hours.
This course investigates the community development model of New Urbanism which promotes the values of walkability, diversity and connectivity for healthy living and neighborhood sustainability. Students will explore local communities, connecting New Urbanist design principles to community values and social interaction.

DCS 291. Community Ethnography and Public History. 3 Hours.
This experiential course addresses how to investigate and represent local community history and stories through the methodologies of service learning, participant observation, ethnographic research and oral history. This class addresses the concepts of human memory, nostalgia, folklore, storytelling and public history. Students will learn how to use new media technologies, such as digital video, podcasting and website production, as a way to represent community history and culture for the public.

DCS 309. American Independent Film. 3 Hours.
This course will provide a history of the American Independent filmmaking tradition by studying the major stylistic movements, works, and filmmakers of the 1970s-th present.

DCS 390. Life, Liberty, and the Pursuit of Happiness: Representing American Identity on Film. 3 Hours.
An interdisciplinary course in which students investigate the formation and representation of early American identity and produce their own films representing contemporary American identity.

DCS 391. Digital Storytelling. 3 Hours.
This experiential course addresses how to investigate and represent local community history and stories through the methodologies of participant observation, ethnographic research and oral history. This class addresses the concepts of human memory, nostalgia, folklore, storytelling and public history. Students will learn how to use new media technologies, such as digital video, podcasting and website production, as a way to represent community history and culture for the public.

DCS 401. Ethnographic Filmmaking/SL. 6 Hours.
This course is an interdisciplinary course in which students pair up to produce a short documentary film which represents a community in the Birmingham area. The course contains four key elements: 1) community outreach, 2) intro to social science theory and methods, 3) film theory and the aesthetics of filmmaking, and 4) technical aspects of camera work and digital video editing. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community. Preq: Permission of the instructor.

Prerequisites: DCS 101 [Min Grade: C] and DCS 201 [Min Grade: C]

DCS 450. Media and Public Service. 3 Hours.
This course offers students hands-on experience creating and analyzing media pieces about community issues, including documentary films, public service announcements, translation of academic research to lay audiences, and multimedia grant proposals and reports. Emphasis will be on communicating effectively in the non-profit sector. Permission of Instructor.

Prerequisites: DCS 401 [Min Grade: D]
DCS 460. Independent Media Studies. 3-6 Hours.
This course will provide an opportunity for advanced students to pursue individual projects in multimedia studies. Prerequisites: Permission of the Instructor.
Prerequisites: DCS 401 [Min Grade: D]

DCS 470. Internship in Media Studies. 3-6 Hours.
Internships will provide students with the opportunity for hands-on experience with digital technology in workplace setting. Prerequisites: Permission of the Instructor.
Prerequisites: DCS 401 [Min Grade: D]

DCS 490. Special Topics in Media. 3 Hours.
Study of thematic topics throughout media studies.

DCS 499. Special Topics in Media Studies. 3 Hours.
Study of thematic topics throughout media studies.

DENT-Dentistry Courses
DENT 0110. Special Topics-Global Health. 3 Hours.

DENT 0113. IGHSL II: Project Implement/SL. 3 Hours.

Dental Assisting Courses

Dentistry - Post Doctoral Courses
SOD 001. Clinic/Seminar Participation. 1 Hour.

SOD 002. Clinic/Seminar Participation. 1 Hour.

EC-Economics Courses

EC 110. Economics and Society. 3 Hours.
Economic principles and development of economic analysis. Combines key elements of EC 210 and 211. Primarily intended for majors in School of Education seeking to meet certification requirements; also open to students outside School of Business who wish to survey economics in one course. Not open to entering freshmen; not open to majors in School of Business or economics majors in the College of Arts and Sciences.

EC 210. Principles of Microeconomics. 3 Hours.
Theory of production and value, including problems of monopoly, oligopoly, and distribution of income. Not open to entering freshmen. (CORE AREA IV).

EC 211. Principles of Macroeconomics. 3 Hours.

EC 300. Economic History of the U.S.. 3 Hours.
This course spans the economic history of the U.S. from colonial times to present. Topics covered include the U.S. Constitution, national economy, wars, ethnicity, race, gender, distribution of wealth and power, social conflict and reform, entrepreneurs, workers, workplace, popular culture, and foreign affairs.

EC 301. Money and Banking. 3 Hours.
Money supply, banking system, and other financial institutions; how money affects aggregate economic activity.
Prerequisites: EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00 and EC 211 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 302. Law and Economics. 3 Hours.
This is an introduction to Law and Economics, that is, the application of economic analysis to legal questions. The course offers a survey of core issues (including property, contracts, and torts), an exposition of alternative approaches to those issues, and a discussion of important implications for economics, law, political science, philosophy, public administration, and sociology. The instructor encourages students to concurrently sign up for the course Cooperation and Competition (EC 330).
Prerequisites: GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 303. Labor Economics. 3 Hours.
Economic analysis in dealing with major aspects of such problems as employment, wages, hours, unionism, labor-management relations, and social security. Influence of psychological and institutional factors.
Prerequisites: GPAT and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] or GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C]

EC 304. Microeconomics. 3 Hours.
Advanced economic principles underlying value and distribution with additional training in application of these principles to problems of analysis. Preq: Completion of all pre-business requirements.
Prerequisites: EC 210 [Min Grade: C] and GPAT or GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 or GPAO 2.00

EC 305. Macroeconomics. 3 Hours.
Forces determining level of income and employment in economic systems, with special reference to United States. Causes and cures of unemployment. Role of government in maintaining high level of employment.
Prerequisites: GPAT and GPAO 2.00 and EC 211 [Min Grade: C] or GPAU 2.00 and GPAO 2.00 and EC 211 [Min Grade: C]

EC 306. Health Care Economics. 3 Hours.
This course seeks to apply economic analysis to issues in health care. Students will review the basic tools of economic analysis and discuss the evolving trends and institutional features in the health care industry. Students will then use an economic way of thinking to address contemporary health care issues from an economic perspective. This will include consideration of the supply and demand for health care, hospitals, insurance and managed care, health labor markets, chronic disease, prescription drugs, and government policy.
Prerequisites: EC 210 [Min Grade: C]

EC 308. Economics of Environment. 3 Hours.
Use of economic analysis to examine interaction between economic and physical environment. Specific topics: social costs and benefits of economic growth, interactions between private business and public welfare, and socioeconomic systems and goals.
Prerequisites: GPAT and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] or GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C]

EC 310. Managerial Economics. 3 Hours.
Economic theory and its application to managerial decision making process. Demand analysis, estimation, cost analysis, market analysis, pricing strategy.
Prerequisites: EC 211 [Min Grade: C] and EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and EC 211 [Min Grade: C])
EC 315. Sports Economics. 3 Hours.
An introduction into the economics of both amateur and professional sports. Basic economic principles are used to detail fan demand, team output/success, and the complexities of league/conference organization, sports rules, racial disparities, and government attempts to regulate sports. Specific focus is placed on the use of statistics to evaluate salaries and the most valuable attributes, players, and positions of many sports to produce a win.

EC 320. Behavioral Economics. 3 Hours.
Incorporation of psychology into models of economic behavior. These models are applied to a variety of fields including industrial organization, marketing, and negotiation.
Prerequisites: (EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 330. Cooperation and Competition. 3 Hours.
An introduction to game theory, teaching basic concepts necessary for application to problems in intermediate microeconomics (bargaining, cartels, auctions, incentives, contracts). Mathematics used is either self-contained within the course or restricted to the level of introductory microeconomics. Theory is applied to sample problems from business, politics and social life. An introduction to evolutionary game theory is included. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: (EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 401. Mathematical Approach in Economics and Business. 3 Hours.
Mathematical approach in economics and business.
Prerequisites: (EC 304 [Min Grade: C] or EC 310 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] or EC 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 403. Monetary Economics. 3 Hours.
Current theories of monetary policy and management, historical development of theory and practice, contemporary policies employed by monetary authorities, institutions concerned, evaluation of policies and reform, and interrelations between monetary factors and economic processes.
Prerequisites: (EC 304 [Min Grade: C] and EC 301 [Min Grade: C] or EC 305 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and EC 301 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 404. Topics in Public Policy. 3 Hours.
Topics in Public Policy.
Prerequisites: (EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 405. Economic Development and Growth. 3 Hours.
Problems of economic development; growth of less developed economies compared with those of advanced economies. Theories of economic development. Policy measures to promote development of growth, with emphasis on measures to accelerate development of countries.
Prerequisites: (EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 407. International Economics. 3 Hours.
Analysis of theoretical principles underlying international trade and investment, and international monetary relations. Study includes the effects on domestic and foreign economies of commercial, monetary and fiscal policies. (Also IB 407).
Prerequisites: EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 408. Topics in the History of Economic Theory. 3 Hours.
The development of economic thought from antiquity to the end of the twentieth century, with emphasis on the synthesis of evolving ideas constituting current economic theory.
Prerequisites: (EC 211 [Min Grade: C] and EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 409. Survey of Econometrics. 3 Hours.
Econometric methods emphasizing mathematical formulation and statistical testing of economic theories. Problems and corrective procedures in single-equation regression estimation, such as multicollinearity, autocorrelation, heteroscedasticity, and lagged variables. Identification, estimation, and applications of simultaneous-equation models.
Prerequisites: (EC 301 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 305 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 301 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (EC 305 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 411. Public Finance. 3 Hours.
Principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisites: (EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 413. Urban Economics. 3 Hours.
Economic issues and structure of metropolitan areas. Economic growth and decay of urban regions. Specific topics: housing, education, employment, political economy, and public safety.
Prerequisites: EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 414. Industrial Organization. 3 Hours.
Structure and performance of monopolistic and oligopolistic industries, emphasizing efficiency, pricing policies, and investment decisions. Extent and nature of concentration in economy as whole.
Prerequisites: (EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 420. Applied Forecasting. 3 Hours.
Practical use of various forecasting techniques on business and economic data. Topics include dynamic regression models, exponential smoothing, forecast criteria, moving averages, seasonality, and univariate Box Jenkins ARIMA modeling.
Prerequisites: EC 210 [Min Grade: C] and GPAT and GPAO 2.00 or EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 425. Applied Regression Analysis. 3 Hours.
Simple, multilinear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer.
Prerequisites: QM 215 [Min Grade: C] and GPAT and GPAO 2.00 and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00
EC 440. Economics for Educators. 3 Hours.
Students will gain an understanding of both basic economic principles and entrepreneurship and learn innovative methods of transferring economic knowledge to elementary and secondary students. Students will also become well-versed in the National and Alabama State standards of learning. Only open to education majors and certified teachers in K-12. This class is not open to economics or business majors.

EC 450. Economics, Institutions & Law. 3 Hours.
The course will study the microeconomic and macroeconomic consequences of different institutional environments and arrangements of designed incentives. This will include political, regulatory and legal structures and rules, both as pertinent to actual institutions at the macro level (e.g., the Federal Reserve, the IMF, the World Bank) and regulated structures at the micro level (households and firms). The presumed conceptual frameworks will be based on intermediate microeconomics and introductory macroeconomics. Normative justification of institutional designs will be addressed. EC 320 is a recommended prerequisite.
Prerequisites: (EC 211 [Min Grade: C] and EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 211 [Min Grade: C] and EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 460. Economics Internship. 3 Hours.
The economics internship program offers qualified students the opportunity to gain first-hand experience in local organizations for a term while receiving academic credit. Participating organizations are expecting to receive high-quality work from the students they sponsor. The active participation by students in actual business decisions of the sponsoring organization is the primary interest of the internship.
Prerequisites: (EC 304 [Min Grade: C] and EC 305 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and EC 305 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 490. Advanced Topics in Economics. 3 Hours.
Selected topics in economics.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

EC 499. Directed Readings in Economics. 1-3 Hour.
Investigation of specific areas in economics.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

ECE-Early Childhood Educ Courses

ECE 320. Introduction to Curriculum and Teaching. 3 Hours.
Provides basic knowledge of early childhood curriculum for programs serving children birth to age five in a variety of settings. Emphasizes the relationship of child growth and development in the planning and implementation of all areas of curriculum. Whole program overview. Extensive field experience required. Open access.

ECE 331. Creative Learning Expression: Young Child. 3 Hours.
Planning and implementation of activities in art, music, movement, and play considering growth patterns of individual child. Emphasis on preserving and maintaining creative expressions. Laboratory experiences. Extensive field experience required.

ECE 332. Literature for the Young Child. 3 Hours.
Literature suitable for young children (grades Nu3). Reading aloud, storytelling, and other planned experiences. Extensive field experience required. Open access.

ECE 334. Young Children: Family/School. 3 Hours.
Introduction and practicum in early childhood education. Programs, teaching opportunities, professional organizations and publications, trends, contemporary problems, parent involvement, and family relationships. Conducting parent conferences and using volunteers in classroom. Directed observation and participation with children in learning environment required. Extensive field experience required. Open access.
Prerequisites: EEC 240 [Min Grade: C]

ECE 347. Language Experiences for the Preprimary Child. 3 Hours.
Emphasizes the learning processes in language arts and effective teaching strategies for children birth to age five with particular focus on infants and toddlers.

ECE 390. Practicum in Early Childhood Education. 1-6 Hour.
Supervised teaching in an early childhood program serving children ages birth to five. Assignments include participation, observation, planning and implementing lessons.
Prerequisites: EEC 320 [Min Grade: C]

ECE 410. Organize Programs: Young Children. 3 Hours.
Trends, practices, and research in administration, organization, evaluation, and design of early childhood programs. Main focus NAEC Accreditation.

ECE 445. Young Children: Math/Science/Social Studies. 6 Hours.
Provides for development of concepts required for teaching mathematics, science, and social studies to young children. Emphasizes child growth and development as a basic for planning and teaching the three curricular areas in a variety of programs. Includes teaching methods and use of technology. Extensive field experience required.

ECE 446. Communication Arts/Reading: Young Child. 6 Hours.
Nature of reading and language arts experiences for pre-school children. Technology, materials, experiences, programs, strategies to facilitate development of communication abilities with emphasis on preserving and maintaining creative expression. Integration of learning in areas of listening, speaking, reading, composition, literature, handwriting, spelling and other communication arts. Extensive field experience required.

ECE 448. Infant/Toddler Development. 3 Hours.
The course covers the social-emotional, physical, cognitive, language, and creative development of infants and toddlers and the corresponding appropriate curriculum materials to support development. Extensive field experience required. Open access.

ECE 449. Education Environment: Infant/Parent. 3 Hours.
This course provides an overview of infant and toddler parenting programs. Topics include parent as child’s first teacher, teacher as parent educator, organization and management strategies for parent/child educational programming, parent involvement, and family literacy. Extensive field experience required. Open access.

ECE 460. Current Topics in Education. 3 Hours.
In depth experiences in evaluating growth and development of children. Techniques for assessing needs, motivations, self-concept and achievements of children.

ECE 490. Student Teaching in Early Childhood Education I. 9 Hours.
Supervised teaching in early childhood program (grades N-3).

ECE 491. Student Teaching in Early Childhood Education II. 3-9 Hours.
Supervised teaching in early childhood program (grades N-3).

ECE 492. Individual Curriculum Projects. 3 Hours.
Field projects in curriculum modification and improvement of classroom practice.
**ECT-Counseling, Human Services Courses**

**ECT 150. Career Planning and Management. 3 Hours.**
Understanding aptitudes, abilities, and interests as related to career alternatives. Group and individual experiences aid self-direction in planning and career management. Values, preferences, skills, and personal resources matched with educational and employment opportunities using variety of experiences and resources.

**ECT 152. Let’s BMEN: How to successfully Navigate the collegiate Experience. 1 Hour.**
This course is designed to be an academic tool for participants in the BMEN program. Academic skills, and resources along with male perspectives of color will also be presented.

**ECT 155. Job Search Strategies. 1 Hour.**
Current occupational information, employer information, and job market trends. Relevance of academic preparation to world of work. Job search strategies and resume preparation.

**ECT 300. Career Mapping. 3 Hours.**
Get what you want by identifying and building key skills being sought by employers and graduate school admission committees today. This course provides an interactive exploration into arriving at your destination and having fun along the way. Gain tips and insights from executives in your field into professional development, resume/interviewing, communication, team building, networking (live and virtual), and other key areas necessary to help you present yourself as the applicant of choice. Master these steps and begin to map your journey toward career success.

**ECT 420. Alcoholism. 3 Hours.**
Emotional, intellectual, psychological, and social aspects of alcoholism.

**ECT 422. Strategy for Attitude Devmt. 3 Hours.**
Dynamics of positive and negative attitudes. Techniques and exercises for improving communication, empathy, and awareness. Techniques for determining personal strengths, setting goals, managing time, and developing strong positive attitudes.

**ECT 423. Strategy Effective Interviewin. 3 Hours.**
Selected interviewing skills described, demonstrated, and practiced in role play with feedback to increase effectiveness in interviewing.

**ECT 424. Constructive Conflict Mgmt. 3 Hours.**
Strategies of constructive conflict management in multicultural settings. Synthetic culture laboratory organized to practice managing conflict in safe context. Strategies for mediating conflict focus on increased awareness, knowledge, and skills for reframing conflict.

**ECT 438. Interpersonal Skills Develop. 3 Hours.**
Classroom lectures plus experiential, structured exercises in small groups for development of more effective interpersonal communication skills.

**ECT 451. Issues/Helping Professions. 1-3 Hour.**
Discussion of issues in the helping professions.

**ECT 463. Intro Interpreting for Deaf. 3 Hours.**
Basic theories, principles, and practices of interpreting for deaf in general and specialized settings; guidelines appropriate in situational settings. Development of interpreting skills and manual communications skills. 
Prerequisites: ECG 462 [Min Grade: C]

**ECT 470. Crisis Intervention Techniques. 3 Hours.**
Crisis counseling theory, applications of crisis intervention, and crisis situations.

**ECT 474. Sem Death Dying and Bereav. 3 Hours.**
Attitudes, beliefs, and response to death, dying, and bereavement. Multicultural perspective. Implications for counseling.

**ECT- Collaborative Teacher Educ Courses**

**ECT 300. Survey of Special Education. 3 Hours.**
Characteristic and needs of children and youth with exceptionalities. Special education law and policy, characteristics of children and youth with disabilities and their families, and critical issues in the field of special education. This course fulfills the QEP requirements Ethics and Civil Responsibility (ECR).
Prerequisites: EDU 200 [Min Grade: C](Can be taken Concurrently)

**ECT 301. Behavior Management. 3 Hours.**
Prerequisites: ECT 300 [Min Grade: C]

**ECT 306. Communication Disorders in Children. 3 Hours.**
Prerequisites: ECT 300 [Min Grade: C]

**ECT 382. Meth and Mat Teach Mentally Retarded Child: Mild/Mod. 3 Hours.**
Meth and Mat Teach Mentally Retarded Child: Mild/Mod. 
Prerequisites: ECT 300 [Min Grade: C] and ECT 381 [Min Grade: C]

**ECT 418. Assessment Procedures with the Exceptional Learner. 3 Hours.**
Prerequisites: ECT 310 [Min Grade: C] or ECT 430 [Min Grade: C] or ECT 381 [Min Grade: C] and ECT 382 [Min Grade: C]

**ECT 494. Special Topics in Education. 1-6 Hour.**
Current topics in Education are presented and discussed.

**EDA-Art Education Courses**

**EDA 483. Methods of Teaching Art. 3 Hours.**
Preparation to teach art in schools. Learning experiences necessary for development of essential teaching competencies. Materials and methods in art studio media, technology skills for art classroom, art history, and criticism, and current issues in art education.

**EDA 484. Methods of Teaching Art Laboratory. 1 Hour.**
Observations in schools. Concurrent enrollment in EDA 483 required.

**EDA 490. Student Teaching in Art N-12. 3-9 Hours.**
Supervised student teaching in elementary and secondary art.

**EDA 499. Internship Seminar in Art Educ. 1 Hour.**
Problem solving related to situations such as classroom management, grading, professionalism and ethics, legal issues, and teacher’s rights.

**EDC-Curriculum Education Courses**

**ECT 303. Exp Ed Majors. 1 Hour.**
Interdisciplinary academic preparation and resources with male perspectives of color will also be presented.

**ECT 451. Meth and Mat Teach Mentally Retarded Child: Mild/Mod. 3 Hours.**
Meth and Mat Teach Mentally Retarded Child: Mild/Mod. 
Prerequisites: ECT 303 [Min Grade: C] and ECT 450 [Min Grade: C] and ECT 451 [Min Grade: C] and ECT 453 [Min Grade: C] and ECT 454 [Min Grade: C]
EDF-Foundations of Education Courses

EDF 361. Ethical Issues in Professional Practice. 2 Hours.
Examines professional ethics and legal issues related to teaching, student supervision, contractual obligation, conditions of employment, and other workplace issues related to conduct and practice in the field of public school teaching. Legal mandates and professional codes of ethics are analyzed. Also addressed are the development of professional judgment and of moral decision making abilities.

EDF 362. Foundations of Education I: Social, Historical, Philosophical. 3 Hours.
Realities of contemporary professional education and active participatory field experience in teaching situations. Seminars on current issues and problems in education, role and value of diversity in education, and the construction and implementation of ethically defensible pedagogies. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: EDF 200 [Min Grade: C] Can be taken Concurrently

EDF 363. Special Topics in Education Foundations. 3 Hours.
Educational Foundations Special Topics.

EDH-Education Honors Courses

EDH 300. Classics in Education. 3 Hours.
This course is designed to provide students with an introduction to several significant classic texts in the field of education. It will also model for students skills for critically evaluating of texts and their relevance to education broadly considered. It will also model for students literature review research. They will be guided in the process of writing an effective term paper.

EDH 491. Honors: Education Research. 1-3 Hour.
This course is designed to enhance students' research and inquiry skills and professional orientation within a community of learners. Research project under supervision of faculty sponsor. May be repeated for a total of three semester hours credit. Prerequisites: Admission to School of Education Honors Program.

EDH 492. Honors: Educ Service Project. 1-3 Hour.
This course is designed to engage students in a school or community-based service project that will enrich students' educational experiences and enhance the lives of the children or other constituents for whom the service is provided. Service project under supervision of faculty sponsor. May be repeated for a total of three semester hours credit. Prerequisites: Admission to School of Education Honors Program.

EDL-Educational Leadership Courses

EDL 460. Intro School Law and Educational Administration. 3 Hours.

EDL 491. Current Issues in Educational Leadership. 3 Hours.

EDR-Reading Education Courses

EDR 341. Beginning Reading Experiences for the Young Child. 3 Hours.
Prerequisites: EDR 440 [Min Grade: C]

EDR 440. Developmental Reading I. 3 Hours.
Materials and methods. Emphasis on planning balanced program and understanding reading process. Extensive field experience required. Admission to TEP required.

EDR 441. Literature for Adolescents. 3 Hours.
Literary works written for or about adolescents.

EDR 442. Reading in Content Areas. 1,3 Hour.
Application of principles of reading process to content-area materials and instruction. Designed for elementary, middle, and high school pre-service teachers. Extensive field experience required. Admission to TEP required.
Prerequisites: EHS 401

EDR 443. Developmental Reading II. 3 Hours.
Application of principles of reading process to content-area materials and instruction. Designed for elementary and middle school pre-service teachers. Extensive field experience required. Admission to TEP required.
Prerequisites: EDR 440 [Min Grade: C]

EDR 450. Literature for Elementary/Middle School. 3 Hours.

EDT-Educational Technology Courses

EDT 300. Teaching and Technology. 3 Hours.
Knowledge and skills of variety of microcomputer applications used in teaching; use of latest information technologies to access available resources on campus, Internet, and e-mail.

EDT 440. Workshops in Education: Technology Issues. 3 Hours.

EDU-Education Courses

EDU 100. Touch the Future. 2-3 Hours.
Introduction to education for students with the intent to be teachers and students entering professions where a degree in education would be beneficial. Students own experiences will be used as input for developing habits of mind and dispositions necessary for success in the field of education. Required for entering freshmen education majors.

EDU 200. Education as a Profession. 3 Hours.
Formal introduction to the Teacher Education Program (TEP). Using writing and discussion, the class provides a clear and realistic understanding of issues involved in choosing education as a career. Writing is a significant component of this course (QEP).

EDU 210. Writing and Speaking Skills for the Education Professional. 3 Hours.
Development of essential writing and speaking skills required for successful education practice. Writing is a significant component of this course (QEP).

EDU 300. Special Topics in Education. 3 Hours.
This course will focus on various topics currently trending in education.

EDU 481. Student Teaching: Early Childhood and Elementary Education. 9 Hours.
Supervised teaching experience in an inclusive collaborative/elementary school setting providing instruction to elementary students with high and low incidence disabilities. Completion of all coursework on Early Childhood/Elementary/Collaborative Teaching: K-6 Checklists and Permission of advisor required.

EE-Electrical Computer Egr Courses

EE 011. Coop/Internship in EE. 0 Hours.
Engineering workplace experience in preparation for the student's intended career.
EE 210. Digital Logic. 3 Hours.
Number systems and codes. Boolean algebra and combinational logic. Arithmetic and logic circuits. Memory elements. Synchronous sequential logic. Lecture and computer laboratory. 
**Prerequisites:** MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C](Can be taken Concurrently)

EE 233. Engineering Programming Methods. 3 Hours.
Program design techniques, data structures, coding and documentation standards. File I/O. Product design and life cycles. Testing and software tools. Lecture and computer laboratory. 
**Prerequisites:** (MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C])(Can be taken Concurrently) and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or ME 130 [Min Grade: C])

EE 254. Applied Numerical Methods. 3 Hours.
Selected mathematical and computational topics appropriate to the numerical solution of engineering problems.  
**Prerequisites:** MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or ME 130 [Min Grade: C])

EE 300. Engineering Problem Solving II. 3 Hours.
Selected mathematical and computational topics appropriate to the solution of engineering problems, including probability and statistics.  
**Prerequisites:** MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D])

EE 305. Fundamentals of Electrical Engineering. 3 Hours.
Survey of topics fundamental to field of electrical engineering. For non-engineering majors. Not available for credit toward engineering major. 
**Prerequisites:** MA 109 [Min Grade: C]

EE 312. Electrical Systems. 3 Hours.
Introduction to DC circuit analysis, AC steady-state analysis, first-order transient analysis, ideal transformers, and electrical safety. 
**Prerequisites:** MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D])

EE 314. Electrical Circuits. 3 Hours.
Application of circuit analysis techniques to DC and AC circuits; circuit solution using PSpice. 
**Prerequisites:** MA 126 [Min Grade: C]

EE 316. Electrical Networks. 4 Hours.
Analysis of circuits using classical differential/integral techniques, Laplace transforms, and two-port network parameters. Circuit solution using simulation. EE 316L must be taken concurrently. Quantitative Literacy is a significant component of this course (QEP). 
**Prerequisites:** EH 101 [Min Grade: C] and PH 222 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D])(Can be taken Concurrently) or EGR 265 [Min Grade: D]

EE 316L. Electrical Networks Laboratory. 0 Hours.
Electrical Networks laboratory component. EE 316 must be taken concurrently.

EE 318. Methods of System Analysis. 3 Hours.
Time-domain and frequency-domain methods for modeling and analyzing continuous and discrete-time signals and systems. Fourier, Laplace, and Z transform methods.  
**Prerequisites:** EE 300 [Min Grade: D] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C]

EE 333. Engineering Programming Using Objects. 3 Hours.
Software development emphasizing object-oriented methods. Students design and develop programs using existing classes and create their own classes. Graphical user interface framework will be used as an extensive example of an object-oriented system. Lecture and computer laboratory. 
**Prerequisites:** EE 233 [Min Grade: D]

EE 337. Introduction to Microprocessors. 4 Hours.
Application of microcomputers to engineering problems such as data acquisition and control. Topics include CPU architecture, assembly language, and input/output interfacing. EE 337L must be taken concurrently. 
**Prerequisites:** EE 210 [Min Grade: C] and EE 233 [Min Grade: D]

EE 337L. Introduction to Microprocessors Laboratory. 0 Hours.
Introduction to Microprocessors laboratory component. EE 337 must be taken concurrently.

EE 341. Electromagnetics. 3 Hours.
Mathematical techniques used to solve electromagnetics problems. Fundamental concepts and applications for dynamic and static problems. Electromagnetic wave propagation and transmission. Transmission lines. 
**Prerequisites:** PH 222 [Min Grade: D] and EE 300 [Min Grade: D](Can be taken Concurrently) and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C] or EE 316 [Min Grade: C])

EE 351. Electronics. 4 Hours.
Solid-state electronics, bipolar junction and field-effect transistor (FET) properties, biasing, frequency response, single and multistage amplifier circuits. EE 351L must be taken concurrently. 
**Prerequisites:** EE 210 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C] or EE 316 [Min Grade: C])

EE 351L. Electronics Laboratory. 0 Hours.
Electronics laboratory component. EE 351 must be taken concurrently.

EE 361. Machinery I. 4 Hours.
Fundamentals and applications of polyphase circuits, magnetic circuits, transformers, polyphase synchronous and asynchronous machines. EE 361L must be taken concurrently.  
**Prerequisites:** (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and PH 222 [Min Grade: D]

EE 361L. Machinery I Laboratory. 0 Hours.
Machinery I laboratory component. EE 361 must be taken concurrently.

EE 418. Wireless Communications. 3 Hours.
Wireless communication system topics such as propagation, modulation techniques, multiple access techniques, channel coding, speech and video coding, and wireless computer networks. 
**Prerequisites:** EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C] or EE 316 [Min Grade: C] and EE 318 [Min Grade: D])
EE 421. Communication Systems. 3 Hours.
Prerequisites: EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 423. Digital Signal Processing. 3 Hours.
Digital filter analysis and design. FFT algorithms. Applications of digital signal processing in engineering problems such as data acquisition and control. Lecture and computer laboratory. 
Prerequisites: EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 426. Control Systems. 3 Hours.
Prerequisites: EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 427. Industrial Control. 3 Hours.
Power control devices and applications. Relay logic and translation to other forms. Programmable logic controllers. Proportional-integral-derivative and other methods for process control. Modern laboratory instrumentation and man-machine interface software. Lecture and laboratory. 
Prerequisites: EE 233 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 431. Analog Integrated Electronics. 4 Hours.
Advanced analysis and design using op-amps, with emphasis on error analysis and compensation. Applications include signal conditioning for instrumentation, instrumentation amplifiers, nonlinear and computational circuits. Butterworth and Chebyshev filter design, power amplifier design, voltage regulator design, and oscillators. A-to-D and D-to-A conversion methods. Laboratory exercises emphasize design techniques. Lecture and laboratory. 
Prerequisites: EE 210 [Min Grade: C] and EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and (EE 316 [Min Grade: C]) and EE 318 [Min Grade: D] (Can be taken Concurrently) and EE 351 [Min Grade: D]

EE 432. Introduction to Computer Networking. 3 Hours.
Computer networking and engineering standards related to networking. Networking hardware, software, and protocols including TCP/IP protocol suite. Internetworking, LANS, and typical applications. 
Prerequisites: EE 210 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C]) or EE 310 [Min Grade: C] or EE 134 [Min Grade: C]

EE 433. Engineering Software Solutions. 3 Hours.
Project planning, specification, design, implementation, and testing of software solutions for engineers. Waterfall model of development and agile development methods. Lecture and computer laboratory. 
Prerequisites: EE 233 [Min Grade: D] and EE 333 [Min Grade: D] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C]) or ME 130 [Min Grade: C] or EE 134 [Min Grade: C]

EE 437. Microprocessor Applications. 3 Hours.
Applications of microprocessors in engineering problems such as data acquisition, control, and real-time input/output. Lecture and laboratory. 
Prerequisites: (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C]) or ME 130 [Min Grade: C] or EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 337 [Min Grade: D]

EE 444. Real-Time Process & Protocols. 3 Hours.
Hands-on laboratory course covering topics in real-time computer systems such as algorithms, state-machine implementations, communication protocols, instrumentation, hardware interfaces, multitasking, and interrupt handling. 
Prerequisites: EE 233 [Min Grade: D] and EE 337 [Min Grade: D]

EE 447. Internet/Intranet Application Development. 3 Hours.
Development of models and applications using Internet/Intranet technologies such as Java, JavaScript, Dynamic HTML, server side scripting, multi-tier models, and XML. Lecture and computer laboratory. 
Prerequisites: EE 233 [Min Grade: D]

EE 448. Software Engineering Projects. 3 Hours.
Object-oriented concepts and design. Unified Modeling Language and design patterns. Provides a project environment for implementation of systems using object-oriented techniques. Lecture and computer laboratory. 
Prerequisites: EE 233 [Min Grade: D] and EE 333 [Min Grade: D]

EE 452. VHDL Digital Systems Design. 3 Hours.
Digital system design, verification, and simulation using VHDL. Lecture and laboratory. 
Prerequisites: EE 337 [Min Grade: D] and EE 210 [Min Grade: C] and EE 233 [Min Grade: D]

EE 458. Medical Instrumentation. 3 Hours.
Fundamental operating principles, applications, and design of electronic instrumentation used in measurement of physiological parameters. 
Prerequisites: EE 351 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C]

EE 461. Machinery II. 3 Hours.
Physical principles of DC machines. Mathematical analysis of generator designs using equivalent circuits and magnetization curves. Calculation of motor speed, torque, power, efficiency, and starting requirements. Solid-state speed control systems. 
Prerequisites: EE 361 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C]

EE 471. Power Systems I. 3 Hours.
Components of power systems. Performance of modern interconnected power systems under normal and abnormal conditions. Calculation of inductive and capacitive reactances of three-phase transmission lines in steady state. 
Prerequisites: EE 361 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C]

EE 472. Power Systems II. 3 Hours.
Prerequisites: EE 471 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C] and EE 361 [Min Grade: D]}
EE 499. Team Design Project II. 3 Hours.
Senior Design Team Project Course Part II. Capstone design project: design and implementation of assigned team project, including design review, demonstration, and documentation. Must have an approved Application for Degree on file and must be in final year of his/her program.

Prerequisites: EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D] and EE 337 [Min Grade: D] and EE 351 [Min Grade: D] and EE 485 [Min Grade: D] and EE 361 [Min Grade: D] (Can be taken Concurrently) and EE 363 [Min Grade: D] (Can be taken Concurrently) and EE 421 [Min Grade: D] (Can be taken Concurrently) and EE 426 [Min Grade: D] (Can be taken Concurrently) and EE 431 [Min Grade: D] (Can be taken Concurrently)

EEC-Elem Early Childhood Courses

Interrelationships of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on children’s growth. Early childhood (birth-6 years). Includes field experiences.

Interrelationships of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on children’s growth. Middle childhood (6-12 years). Includes field experiences.

EEC 300. Child Development/Family Relationships. 3-4 Hours.
Interrelationships of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on human growth from conception through adolescent years. Extensive field experience required.

Prerequisites: EDU 200 [Min Grade: C]

EEC 301. Introduction to P-6 Education. 3 Hours.
Basic knowledge of early childhood and elementary school curricula in variety of settings from infancy programs through elementary school. Theories and practical approaches to teaching and to curriculum development; relationship between child growth and development and areas of curriculum. Observation in early childhood and elementary programs required. Extensive field experience required.

Prerequisites: EDU 200 [Min Grade: C]

EEC 302. Expressive Arts (P-6). 1-3 Hour.
Creativity through numerous experiences in music, theatre, dance, and visual arts. Experiences correlate with literacy skills, critical thinking skills, symbols, and images that can be directly applied to both teacher-centered and child-centered methods of teaching. Extensive field experience required.

EEC 402. Primary Math Methods. 3.4 Hours.
A math methods course focusing on emergent mathematical concepts for young children. Extensive field experience required.

EEC 405. Children’s Literature in Early Childhood and Elementary Education. 3.4 Hours.
EEC 406. Language Arts in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Communication-based approach in developing effective language arts program. All aspects of language arts program addressed. Extensive field experience required. Admission to TEP required.

EEC 411. Discipline and Classroom Management. 3 Hours.
Theoretical and practical application of various theories of discipline. Development of skills in management of student behavior and classroom environment.

EEC 412. Math in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Scope, sequence, and content of mathematics program. Computational skills and problem solving. Field experiences required. Admission to TEP required.

EEC 413. Science in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Scope, sequence, and content of science program. Inquiry, science process skills, and concept development. Extensive field experience required. Admission to TEP required.

EEC 414. Social Studies in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Scope, sequence, and content of social studies curriculum. Teaching strategies, program articulation, and instructional planning. Extensive field experience required. Admission to TEP required.

EEC 415. Learning Environments. 3 Hours.
Theoretical approaches that focus on child centered curriculum, classroom management, discipline strategies and cultural, linguistic, and developmentally appropriate instruction. Extensive field experience required.

EEC 440. Workshop in Education. 1-6 Hour.
Strengthens proficiency in teaching area. Specific teaching area and themes vary. May be repeated for maximum of nine hours of differing topics.

EEC 460. Current Topics in Education. 3 Hours.
Topics vary. May be repeated for maximum of six hours of differing topics.

EEC 465. Teaching Globe and Map Skills. 3 Hours.
Concepts and skills related to understanding functional use of globes and maps. Strategies and methods for teaching concepts and skills to children. Curriculum scope, sequence, continuity, and application within social studies program. Materials and resources for teaching. Admission to TEP required.

EEC 490. Internship in P-3/3-6. 9 Hours.
Supervised capstone teaching experience in early childhood (P-3) and elementary (K-6) program. Gradual assumption of responsibility for planning and teaching for the entire class (minimum of 12 weeks). Supervision in working with resource professionals and parents.

EEC 491. Internship Seminar in P-6 Education. 1,3 Hour.
Supports and extends efforts of student teaching. Problem solving related to classroom situations such as classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship.

EEC 492. Individual Curriculum Project: Area Specific. 3-6 Hours.
Field projects in curriculum modification and improvement of classroom practice. Permission of instructor required.

EEC 493. Individual Readings. 1-3 Hour.
Individualized readings on special topics. Permission of instructor required.

EEC 494. Field Work in Early Childhood and Elementary Education. 3,4 Hours.
Observation and participation experiences with children.

EESL-English as Second Language Courses

EFL-Foreign Language Educ Courses

EFL 470. Practicum in Foreign Language N-12. 1 Hour.
Assignment to foreign language classroom to teach selected topics in field of certification. Admission to TEP required.

EFL 485. Foreign/Sec Language Methods. 4 Hours.
Approaches and methods of teaching and testing foreign language. Selection and use of audiovisual equipment and materials. Extensive field experience required.

EEG 470. Practicum in Foreign Language N-12. 1 Hour.
Selection and use of audiovisual equipment and materials. Extensive field experience required.

EESL-Educational Courses

EGR 110. Introduction to Engineering I. 1 Hour.
Introduction to profession of engineering, engineering specialties; education requirements; team work and present and future societal demands on profession.

EGR 111. Introduction to Engineering II. 1 Hour.
Ethics and safety; career opportunities in engineering, introduction to engineering design and technical communications; team work and present and future societal demands on profession.

EGR 125R. Engineering Applications of Calculus I. 1 Hour.
An application based course designed to reinforce concepts from MA 125.

EGR 126R. Engineering Applications of Calculus II. 1 Hour.
An application based course designed to reinforce concepts from MA 126.
EGR 150. Computer Methods in Engineering. 3 Hours.
An introduction to engineering computation using MATLAB language and Excel. Basic programming skills using built-in functions is emphasized. Generation and manipulation of vectors and matrices, operations on vectors/matrices, plotting, iterations calculations. If/else and other logical constructs, and data input/output are covered. Engineering applications are used throughout the course.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C](Can be taken Concurrently)

EGR 200. Introduction to Engineering Design. 2 Hours.
Profession of engineering: ethics and safety, engineering specialties and career opportunities, educational requirements, introduction to engineering design, team work and technical communications, and present and future societal demands on profession.
Prerequisites: (MA 102 [Min Grade: C] or MA 105 [Min Grade: C] (Can be taken Concurrently) or MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: C](Can be taken Concurrently)

EGR 265. Math Tools for Engineering Problem Solving. 4 Hours.
Designed to allow engineering majors to utilize the terminology and problem-solving approaches inherent to engineering, while completing their mathematical preparation. This course is equivalent to MA 227 and MA 252.
Prerequisites: MA 126 [Min Grade: C]

EGR 301. Honors Research I. 1 Hour.
Introduces students to research methodology, ethics, data analysis, and technical communication. Students must be invited into program in order to enroll.
Prerequisites: (MA 227 [Min Grade: C] or EGR 265 [Min Grade: D])

EGR 400. Special Topics in (Study Away). 9 Hours.
Independent studies in various subject and/or service areas outside the state of Alabama or the continental United States.

EGR 410. Engineering Service Learning in Education. 1-6 Hour.
Course provides students an opportunity to help students in K-12 to analyze and solve problems using engineering concepts and design process to engage and excite them about engineering, science, and technology.

EGR 420. Engineering in Service Learning through EISAL. 6 Hours.
This course will allow engineering students the opportunity to communicate and live in other cultural environments, allowing them to share interdisciplinary engineering design and analysis in a real-world setting. It will also allow them the opportunity to work in multi-cultural groups to solve a common problem.

EGR 440. Social Responsibility in Global Health. 1 Hour.
This course provides students with an understanding of social and economic concepts of global health that, together with an understanding of interprofessional collaboration and community partnerships, will enable them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners. The course is open to undergraduate and graduate students who are enrolled in two co-requisite courses that are requirements for students participating in the interprofessional global health service learning program at the University of Alabama at Birmingham.

EGR 441. Interprofessional Collaboration (IPC) and Community Partnerships in Global Health. 1 Hour.
This course provides students with an understanding of principles of interprofessional collaboration and community partnerships that, together with key social and economic concepts of global health, enables them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners.

EGR 442. EGR Service Learning in Interprofessional Global Health Service Learning I: Project Planning. 1 Hour.
This course provides students with an opportunity to apply principles of interprofessional collaboration, community partnerships, and global health in the development of a plan to address a global health problem in collaboration with a community partner. The course is open to undergraduate and graduate students who are enrolled in two co-requisite courses that are requirements for students participating in the global health service learning program at the University of Alabama at Birmingham.

EGR 450. Engineering Service Learning: Teaching Experiences. 1 Hour.
This course provides engineering students the opportunity to assist engineering faculty and fellow students in a tutorial environment by serving as teaching assistants in engineering service courses.

EGR 490. Special Topics in (Area). 6 Hours.
Special Topics in engineering.

EGR 499. Industrial Distribution Senior Design Project. 4 Hours.
Capstone design project: interdisciplinary design teams, ethics, materials selection, the design process, development of a proposal, project planning and scheduling, project execution and resource scheduling. Successful completion and oral defense of a design project. Limited to students majoring in Industrial Distribution.

EH-English Courses

EH 091. Introduction to College English. 5 Hours.
Focuses on connections between reading and writing, especially as they relate to a writer’s purpose and development of academic writing. Includes review of grammar, punctuation, and usage, with emphasis on editing skills and writing effective paragraphs and expository essays. Required for students who score below 20 on the English or Reading portions of the ACT test. Prepares students for EH 101; may not be used for fulfillment of any degree requirement.

EH 101. English Composition I. 3 Hours.
Process and final product of expository and analytical essays. Research and documentation required on most essays. Students must receive grade of C or higher in EH 101 and 102 to complete Core Curriculum requirement in English language. (Also see CLEP examinations and AP examinations.).
Prerequisites: EH 091 [Min Grade: C] or (A01 20 and A03 20) or S01 480 or (EHWS 29 and EHRS 18)

EH 102. English Composition II. 3 Hours.
Process and final product of argumentative essays. Research and documentation required on most essays. Students must receive grade of C or higher in EH 101 or EH 102 to complete Core Curriculum requirement in English Language. (Also see CLEP examinations and AP examinations.).
Prerequisites: EH 101 [Min Grade: C]

EH 105. Ada Long Creative Writing Workshop. 1 Hour.
Introductory course in creative writing for high school students with demonstrated creative writing abilities.
EH 202. English Composition II for Science and Technology Honors Student. 3 Hours.
EH 202/STH 202 will be paired with EH 102/STH 102, enrolling students from the Science and Technology Honors Program who have already completed (or received credit for) EH 102. In addition to covering material required for all sections of EH 102, this course introduces students to the specific rhetorical elements of scientific and technical discourse. Students enrolled in EH 202/STH 202 will complete the same reading and writing assignment as those required of EH 102/STH 102 students. In traditional EH 102 courses and that covered in the focused EH 102/STH 102 course.
Prerequisites: EH 101 [Min Grade: C]

EH 203. Writing in Birmingham. 3 Hours.
Improvement of skills for public writing, using Birmingham as geographical, historical, and institutional context. Emphasis on issues related to Birmingham’s past and present, including the ethics and civic responsibilities of Birmingham residents. Ethics and Civic Responsibility and Writing are significant components of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 205. Introduction to Creative Writing. 3 Hours.
An introduction to the writing of fiction, poetry, and the creative essay. Emphasis on fundamentals of writing creatively, with students producing original work in each of the three genres.
Prerequisites: EH 102 [Min Grade: C]

EH 206. Introduction to Film. 3 Hours.
Introduction to critical analysis of the language of film, surveysing concerns in contemporary film theory, including narrative, authorship, genre, the cinematic apparatus, race, gender, and spectatorship.
Prerequisites: EH 102 [Min Grade: C]

EH 210. Interpretation of Film. 3 Hours.
World literature before 1660. Emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 214. Introduction to Literature: Special Topics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 102 [Min Grade: C]

EH 216. Introduction to Literature. 3 Hours.
Short stories, novels, poems, and plays from variety of historical periods and cultures. Emphasis on techniques of each genre. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 217. World Literature I: Before 1660. 3 Hours.
World literature before 1660. Emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 218. World Literature II: 1660-Present. 3 Hours.
World literature since 1660. Emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 221. British and Irish Literature I: Before 1800. 3 Hours.
British/Irish literature from Anglo-Saxon period to end of eighteenth century with emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 222. British and Irish Literature II: 1800-Present. 3 Hours.
British/Irish literature from end of eighteenth century into twentieth century with emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 223. American Literature I: Before 1865. 3 Hours.
American literature from 1620 to 1865 with emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 224. American Literature II: 1865-Present. 3 Hours.
American literature 1865 to present with emphasis on writing and literary analysis. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 241. Literature of the Supernatural. 3 Hours.
Critical examination and historical survey of fairy tale, ghost story, wonder tale, and gothic narrative.
Prerequisites: EH 102 [Min Grade: C]

EH 242. Greek and Roman Mythology. 3 Hours.
Introduction to classical myths; emphasis on influence of mythology in Western literature.
Prerequisites: EH 102 [Min Grade: C]

EH 300. Engineering Communication. 2 Hours.
Introduces engineering students to the theory and practice of communicating effectively in various organizational contexts. Subjects covered include managing and producing professional reports, proposals, and feasibility studies; communicating ethically in the workplace; and presenting ideas to multiple audiences in written and oral formats. Required for most undergraduate engineering majors.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C]) or EGR 200 [Min Grade: C] or EGR 100 [Min Grade: C] and EH 102 [Min Grade: C]

EH 301. Reading, Writing, and Research for English Majors. 3 Hours.
Designed to improve skills for critical writing about literary texts. Strong emphasis on analytical thinking and on the ethics of argumentation. Required for English majors; recommended prior to taking 400-level courses. Writing, Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 302. Intermediate Writing. 3 Hours.
This course is designed for non-English majors who wish to improve the quality of their writing.
Prerequisites: EH 102 [Min Grade: C]

EH 303. Advanced Composition. 3 Hours.
Improvement of skills for academic and public writing, focusing on analysis and critique. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 304. Editing in Professional Contexts. 3 Hours.
Theory and practice of editorial/rhetorical concerns throughout writing process, particularly as related to professional contexts. Writing is a significant component of this course (QEP).
Prerequisites: EH 102 [Min Grade: C]

EH 305. Beginning Poetry Writing Workshop. 3 Hours.
Fundamentals for beginners: emphasis on techniques and style through readings and student’s own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 306. Beginning Poetry Writing Workshop. 3 Hours.
Fundamentals for beginners: emphasis on techniques and style through readings and student’s own writing.
Prerequisites: EH 102 [Min Grade: C]
EH 307. Beginning Creative Nonfiction Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student’s own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 308. Beginning Creative Nonfiction Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student’s own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 309. Beginning Fiction Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student’s own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 310. Beginning Fiction Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student’s own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 311. English Internship. 3 Hours.
On-campus and off-campus training positions in fields utilizing language and writing skills, with some positions offering external funding. Students should contact the Director of Internships to discuss available positions and application procedures. May be counted as elective only in professional writing concentration and writing minor with approval of the Undergraduate Director.
Prerequisites: EH 102 [Min Grade: C]

EH 318. Science Fiction. 3 Hours.
Modern science fiction, including novels and short stories by Asimov, Heinlein, LeGuin, and others.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 324. African-American Special Topics. 3 Hours.
See Class Schedule for Topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 325. Pre-1700 Lit Special Topics. 3 Hours.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 326. 1700-1900 Literature: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 327. Post 1900 Literature: Special Topics. 3 Hours.
See Class Schedule for Topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 328. English Elective: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 329. Literature of the Vikings. 3 Hours.
Old Norse mythology, poetry, and sagas in translation. Background for Beowulf.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 330. Professional Writing: Special Topics. 3 Hours.
See course catalog for topic. Can count as a Professional Writing class in the Professional Writing concentration or in the minor in Writing.

EH 332. Public Discourse: Spec Topics. 3 Hours.
See course catalog for topics. Counts as a Public Discourse class in the Professional Writing concentration and in the minor in Writing.

EH 339. Twentieth Century Theater. 3 Hours.
Study of major works in 20th century drama.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 350. Introduction to Linguistics. 3 Hours.
Introduction to the scientific study of language with a main focus on principles underlying phonology morphology, syntax and semantics. Relationship between language and society, psycholinguistics and language typology may also be addressed.
Prerequisites: EH 102 [Min Grade: C]

EH 351. Structure of English. 3 Hours.
Description and analysis of present-day English grammar with particular attention paid to the structure of phrases, clauses and sentences, including parts of speech, coordination, subordination, tense, aspect, voice, grammatical functions, agreement and clause types.
Prerequisites: EH 102 [Min Grade: C]

EH 352. The Structure of English Words. 3 Hours.
Introduction to English vocabulary elements and word formation, including topics in history of English and sound patterns as these topics relate to word formation. Does not count as literature for Core Curriculum requirement.
Prerequisites: EH 102 [Min Grade: C]

EH 355. Introduction to Sociolinguistics. 3 Hours.
Social factors that play role in language usage and learning; emphasis on American English.
Prerequisites: EH 102 [Min Grade: C]

EH 356. Semantics. 3 Hours.
Meaning in language with reference to questions of synonymy, ambiguity, and language use.
Prerequisites: EH 102 [Min Grade: C]

EH 360. Phonology. 3 Hours.
Sound patterning of languages.
Prerequisites: EH 102 [Min Grade: C]

EH 365. African American Literature, 1746-1954. 3 Hours.
Cultural values from colonial writer Lucy Terry, through slavery and emancipation, to Ralph Ellison and writers of early 1950s. Emphasis on role of diversity and how historical issues of race relate to modern contexts. Ethics and Civic Responsibility are significant components of this course (CERP).
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]
EH 366. African American Literature, 1954-Present. 3 Hours.
Cultural values from James Baldwin in 1950s, through black nationalist, civil rights, and black feminist movements, to contemporary writers such as Ishmael Reed, Charles Johnson, and Toni Morrison. Emphasis on role of diversity and how historical issues of race relate to modern contexts. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or Eh 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 367. Southern Literature. 3 Hours.
Literature of American South: Faulkner, Jefferson, Douglass, Chopin, O'Connor, and others.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 369. The American Dream. 3 Hours.
Literature expressing values and ideals of American people from Hawthorne and Thoreau to Richard Wright and Adrienne Rich.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 376. Shakespeare. 3 Hours.
Five or six plays: one history, one comedy, three major tragedies. Intensive study of two or more tragedies.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 389. Bible as Literature. 3 Hours.
Literary themes and styles of Old and New Testaments.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 392. Special Topics in Literature. 3 Hours.
See class schedules for topic.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 393. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 102 [Min Grade: C]

EH 401. Tutoring Writing. 3 Hours.
Improvement of writing skills through understanding theories of tutoring. Preparation of future teachers for tutor training and writing center development. Writing is a significant component of this course (QEP).
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 402. Writing in Popular Periodicals. 3 Hours.
Current theory regarding production, distribution, and consumption of popular periodicals, with extensive practice contributing to these sources. Writing is a significant component of this course (QEP).
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 403. Business Writing. 3 Hours.
Advanced writing course focusing on writing clearly and ethically in professional business contexts, with particular emphasis on memos, letters, resumes, and reports. Writing, Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 404. Technical Writing. 3 Hours.
Advanced writing concentrating on short informal and long formal reports. Quantitative literacy is a significant component of the course (QEP).
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 405. Poetry Writing Workshop. 3 Hours.
Intermediate work in poetry through critique of student writing.
Prerequisites: EH 305 [Min Grade: C] or EH 306 [Min Grade: C]

EH 406. Poetry Writing Workshop. 3 Hours.
Intermediate work in poetry through critique of student writing.
Prerequisites: EH 305 [Min Grade: C] or EH 306 [Min Grade: C]

EH 407. Creative Nonfiction Writing Workshop. 3 Hours.
Intermediate work in creative nonfiction through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C]

EH 408. Creative Nonfiction Writing Workshop. 3 Hours.
Intermediate work in creative nonfiction through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C]

EH 409. Fiction Writing Workshop. 3 Hours.
Intermediate work in prose fiction through critique of student writing.
Prerequisites: EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 410. Fiction Writing Workshop. 3 Hours.
Intermediate work in prose fiction through critique of student writing.
Prerequisites: EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 411. Capstone Internship. 3 Hours.
This course is available to qualified English majors who wish to apply their knowledge and skills to a work setting. Students will fulfill the requirements for a university capstone course by reflecting on the applicability of disciplinary knowledge to internship responsibilities. Students should contact the Director of Internships to discuss available positions and application procedures.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 412. Forms of Poetry. 3 Hours.
Study of prosody and works of major formalist poets. Includes writing poems in received forms and modes and critiquing those in workshop setting.
Prerequisites: EH 405 [Min Grade: C] or EH 406 [Min Grade: C]

EH 413. Forms of Creative Nonfiction. 3 Hours.
Intensive study of one or more major nonfiction forms such as memoir, essay, or literary journalism. Includes writing nonfiction forms and critiquing them in a workshop setting.
Prerequisites: EH 407 [Min Grade: C] or EH 408 [Min Grade: C] or EH 409 [Min Grade: C] or EH 410 [Min Grade: C]

EH 414. Modern British and European Drama. 3 Hours.
Techniques and problems of modern European drama: Ibsen, Shaw, Chekhov, Synge, Pirandello, Brecht, Beckett, and others.
Prerequisites: EH 301 [Min Grade: C] or EH 302 [Min Grade: C] (Can be taken Concurrently)

EH 415. Forms of Fiction. 3 Hours.
Intensive study of one or more aspects of fiction. Includes writing and critiquing in a workshop setting.
Prerequisites: EH 407 [Min Grade: C] (Can be taken Concurrently) or EH 408 [Min Grade: C] or EH 409 [Min Grade: C] or EH 410 [Min Grade: C]
EH 416. Modern American Poetry. 3 Hours.
Selections from Frost, Stein, Stevens, Pound, Eliot, Williams, Doolittle, Jeffers, Moore, McKay, Loy, Toomer, Crane, Hughes, and others.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 419. Young Adult Literature. 3 Hours.
Close reading of young adult literature and study of its form and history, its assumptions about adolescent psychology, and its literary relationship to the traditional canon.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 420. World Literature. 3 Hours.
Selections in translation from Greek, Roman, and Hebrew classics, other literature, and oral tradition.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 421. World Literature. 3 Hours.
Selections in translation from European, African, and South American writers.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 422. African Literature. 3 Hours.
Selected novels, short stories, autobiographies, folk tales, drama, essays, films, songs from pre-colonial Africa to the present, including works by Emecheta, wa Thiong’o, Head, Achebe, Ba, Armah, Laye, Salih, Soyinka, and Abrahams.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 423. African Women’s Literature. 3 Hours.
Writing in all genres by African women from pre-colonial Africa to the present.
Prerequisites: EH 301 [Min Grade: C]

EH 424. African-American Special Topics. 3 Hours.
See Class Schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 425. Pre-1700 Literature Special Topics. 3 Hours.
See Class Schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 426. 1700-1900 Literature: Special Topics. 3 Hours.
See Class Schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 427. Post 1900 Literature: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 428. English Elective: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 429. Creative Writing: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 305 [Min Grade: C] (Can be taken Concurrently) or EH 306 [Min Grade: C] or EH 307 [Min Grade: C] or EH 308 [Min Grade: C] or EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 430. Professional Writing: Special Topics. 3 Hours.
See course schedule for topics. Counts as Professional Writing in the English major concentration in Professional Writing and in the English minor in Writing.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 431. Special Topics in Film. 3 Hours.
In-depth study of a specialized topic in film, for example, a particular national cinema, one or more directors, a development in film history or genre, or issues in visual representation.
Prerequisites: EH 210 [Min Grade: C] (Can be taken Concurrently) or EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 432. Public Discourse: Special Topics. 3 Hours.
See course schedule for topics. Counts as Public Discourse in the English major concentration in Professional Writing and the English minor in Writing.

EH 433. Academic Writing. 3 Hours.
Introduction for students in all disciplines, to the processes of scholarly inquiry and the most common genres of academic writing, including critiques, bibliographies, proposals, conference presentations, and articles. Writing is a significant component of this course (QEP).
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 435. Teaching Creative Writing. 3 Hours.
Examines current theory and practice in teaching creative writing particularly in secondary schools and introductory college-level classes.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 436. Workshop in Writing for Young People. 3 Hours.
Intermediate workshop in writing for young people through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C] or EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 437. Workshop in Writing for Young People. 3 Hours.
Intermediate workshop in writing for young people through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C] or EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 441. Literary Theory and Criticism, the Ancients to the Nineteenth Century. 3 Hours.
Introduction to theories of art and literary production in the contexts of aesthetics and culture from Plato to the end of the nineteenth century.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 442. Literary Theory and Criticism, the Twentieth Century to the Present. 3 Hours.
Introduction to theories of art and literary production in the contexts of aesthetics and culture from Russian formalism to the present.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 443. Archetype and Myth. 3 Hours.
Recurring images, underlying patterns, and shapes-of-meaning in poetry, fiction, and fairy tales.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 444. Women’s Literature and Theory. 3 Hours.
Literary works and theoretical perspectives of Angelou, Chopin, Hong, Kingston, Hurston, Walker, Woolf, Plath, and others.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 445. Special Topics in African American Literature. 3 Hours.
Investigate special topics on slavery, post-bellum and contemporary literature by African American writers.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)
EH 446. African American Autobiography. 3 Hours.
Personal narratives by African Americans, including texts by Wheatley, Douglass, Jacobs, Wilson, DuBois, Johnson, Hurston, Hughes, Wright, Baldwin, Angelou, and Moody.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 447. African American Dramatic Tradition. 3 Hours.
Development of African American dramatic tradition from the nineteenth century through the Harlem Renaissance and Black Arts movement to contemporary postmodernism, including Brown, Hurston, Baraka, and Wilson.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 448. African American Poetry Tradition. 3 Hours.
Development of African American poetry from its early works to the present, including Wheatley, Dunbar, Hughes, Brooks, and Angelou.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 450. Advanced Grammar. 3 Hours.
Present-day English grammar.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 451. Generative Grammar. 3 Hours.
Introduction to Chomskian linguistic theory. Knowing a language involves knowing an intricate set of rules; this course gives one approach to modeling this linguistic knowledge.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 452. Grammar and Usage for English Teachers. 3 Hours.
Overview of English grammar and usage, focusing on those topics that are presented in the classroom. Topics will include the difference between prescriptive and descriptive grammar, parts of speech, types of verbs, grammatical functions, agreements, sentence structure, tense, aspect, voice, finite clauses, nonfinite clauses, clause types, Focus also on Reed-Kellogg sentence diagramming.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 453. History of the English Language. 3 Hours.
Overview of language evolution from Proto-Indo-European to modern English dialects, including phonological shifts, dialectal distinctions, language families and orthographical and syntactical changes.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 454. The Biology of Language. 3 Hours.
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 456. Visual Rhetoric. 3 Hours.
Analysis of the rhetorical characteristics of texts that incorporate both images and words in order to persuade audiences. Writing is a significant component of this course (QEP).
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 457. Writing and Medicine. 3 Hours.
This course examines how the realm of medical knowledge and practice is written or constructed according to particular social and ethical values. Overarching institutional assumptions and norms as well as specific texts and practices will be considered in our study of medical discourse. Writing, Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 459. Discourse Analysis. 3 Hours.
Advanced practice in the analysis and writing of public discourse, with emphasis on the social politics of linguistic choices. Writing is a significant component of this course (QEP).
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 460. American Women Writers Before 1900. 3 Hours.
Survey of American women’s writing before 1900.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 461. American Literature, 1620 - 1820. 3 Hours.
Representative American writing from Washington Irving.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 462. American Literature, 1820 - 1870. 3 Hours.
Representative writers such as Alcott, Cooper, Poe, Hawthorne, Melville, Emerson, Fuller, Fern, Harper, Thoreau, Jacobs, Whitman, Stowe, and Dickinson.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 463. American Literature, 1870 - 1914. 3 Hours.
Realism and naturalism: Twain, James, Howells, Crane, Jewett, Wharton, Dreiser, Norris, and Chopin, among others.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 464. American Literature, 1914 - 1945. 3 Hours.
Selected fiction, poetry, and drama of major American writers such as Eliot, Faulkner, Hemingway, Hurston, O’Neill, and Wright.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 465. American Literature, 1945-Present. 3 Hours.
Selected fiction, poetry, and drama in context of post-war cultural trends and literary movements.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 466. The Slave Narrative and Its Literary Expressions. 3 Hours.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 467. Black Women Writers. 3 Hours.
Evolution of Afrocentric feminist consciousness through early and contemporary writings including works by Aido, Conde, Cooper, Chase-Riboud, Marshall, Morrison and Naylor.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 468. The Harlem Renaissance. 3 Hours.
Black writers during Harlem Renaissance movement. Includes Johnson, Toomer, Murray, Larsen, McKay, Thurman, Reed, and Morrison.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 469. Medieval Culture: Literature and Society. 3 Hours.
Exploration through art, literature, and history of dominant themes of Middle Ages, from Germans to Dante and Chaucer.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 470. Arthurian Legend. 3 Hours.
King Arthur and his knights in literature from sixth-century history and formulation of legend in Middle Ages to its use in twentieth century.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 471. Beowulf in Context. 3 Hours.
Beowulf and various texts that bear upon it (including modern literary and film adaptations), as well as a close study of the Norse analogues of the Old English epic. All texts in Modern English translation. Not appropriate for those who have taken EH 649.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)
EH 472. Introduction to Old English. 3 Hours.
An introduction to the language and literature of early medieval England (pre-1100), culminating in analyses of The Dream of the Rood and The Battle of Maldon in the original alliterative verse.

EH 473. Chaucer: Pilgrimage to Canterbury. 3 Hours.
Selections from Canterbury Tales and Chaucer’s fourteenth-century milieu.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 474. English Renaissance Drama (Excluding Shakespeare). 3 Hours.
Plays by Marlowe, Kyd, Jonson, Tourneur, Webster, Middleton, and Ford.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 475. English Renaissance Poetry and Prose. 3 Hours.
Topics vary. Broad survey of period or close analysis of genre, theme, or author.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 476. Shakespeare. 3 Hours.
Study of several major plays.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 478. Milton. 3 Hours.
Selected prose and poetry, including Paradise Lost.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 480. The Restoration. 3 Hours.
Interdisciplinary exploration of selected poems, plays, and essays by Restoration authors. Authors and topics vary.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 481. The Eighteenth Century: Literature and Culture. 3 Hours.
Interdisciplinary exploration of texts that focuses on social, economic, and political backgrounds. Topics and authors vary.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 482. The Eighteenth Century: Theory and Interpretation. 3 Hours.
Interdisciplinary exploration of selected texts by 18th-century authors that focuses on their formal and philosophical contexts. Authors and topics vary.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 483. British Romanticism. 3 Hours.
Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb, and DeQuincy.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 485. British Victorian Poetry. 3 Hours.
Selected works by Tennyson, Browning, Arnold, and others.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 486. Eighteenth-Century British Novel. 3 Hours.
Selected works by Fielding, Defoe, Sterne, Smollet, Richardson.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 487. Nineteenth-Century British Novel. 3 Hours.
Selected works by Austen, Dickens, Thackeray, Bronte, Trollope, Eliot, or other novelists.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 488. British Novel: The Modern Age. 3 Hours.
Selected works by Conrad, Lawrence, Joyce, Woolf, Ford, and others.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 489. James Joyce. 3 Hours.
Joyce’s fiction through Ulysses.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 491. Major Writers. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 492. Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 493. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 494. English Honors Research. 3 Hours.
This is an individual studies course for outstanding students beginning their work on an honors capstone thesis. During the first course of a two-course sequence, students will conduct research for that thesis and write a full-length prospectus for that thesis with an extended bibliography.
Prerequisites: EH 301 [Min Grade: C]

EH 495. Honors Capstone Thesis. 3 Hours.
This is an individual studies course for outstanding students completing their work on an honors capstone thesis. During this second course of a two-course sequence, students will write and defend that thesis.
Prerequisites: EH 301 [Min Grade: C]

EH 496. Capstone Seminar. 3 Hours.
Specific topics vary. The course will provide an opportunity for students to reflect upon and to use the knowledge, skills, and dispositions developed in previous English coursework. Required of all English majors. EH 496 is ideally taken in the final undergraduate semester.
Prerequisites: EH 301 [Min Grade: C]

EH 497. Individual Studies. 1-3 Hour.
Student and faculty member work together to define project; student conducts research and presents results as written report.

EHS-High School Education Courses

EHS 125. Inquiry Approaches to Teaching. 1 Hour.
This Step 1 allows students to explore teaching as a career at no cost. Following an introduction to the theory and practice behind excellent inquiry-based science and mathematics instruction, candidates teach lessons in elementary classrooms to obtain firsthand experience in planning and implementation. Master teachers: Step 1 instructors chosen for their experience and success in secondary classrooms: provide candidates direct exposure to people who love teaching and view it as a rewarding career choice. Mentor teachers at the low-socioeconomic schools where candidates teach their prepared lessons demonstrate effective teaching techniques and classroom management skills, giving the future teachers a true taste of working in a supportive, diverse, educational setting. The purpose of Step 1 is to have students explore the possibility of teaching in science, mathematics, or computer science. Students teach science or mathematics lessons in local, high-need elementary classrooms and obtain first-hand experience with planning and implementing inquiry-based curriculum. The course instructor introduces students to the theory and practice behind excellent inquiry-based science and mathematics instruction, guides them through the process of designing and preparing to teach lessons, and assesses their progress toward course objectives.
EHS 126. Step 2: Inquiry Based Lesson Designs. 1 Hour.
In Step 2 students continue developing the lesson planning skills learned in EHS 125: Step 1 as they become familiar with exemplary middle school science curricula. After observing a lesson being taught in a local school district classroom, students work alone or in pairs to themselves plan and teach three inquiry-based lessons to sixth, seventh, or eighth graders. Middle school science or mathematics classrooms are selected both for the diversity of the student body and the quality of the classroom teachers, who serve as mentors for the Step 2 students assigned to them. By the end of Step 2, students are usually able to make a decision about whether to pursue teacher certification through the UTeach program. In addition to the unique Core Components and Course Objectives listed below, all UTeach courses are designed in accordance with the UTeach Course Design Principles.
Prerequisites: EHS 125 [Min Grade: C]

EHS 320. Geography for Teachers. 3 Hours.
Unifying themes and concepts of geography. Culture and characteristics of places, especially as caused by relationships between humans and their environment.

EHS 325. Knowing and Learning in Mathematics and Science. 3 Hours.
Knowing and Learning in Mathematics and Science is the first in a sequence of three, 3-credit teaching methods courses in the UTeach program. It is followed by Classroom Interactions and Project-Based Instruction. Knowing and Learning is more than simply a general survey of theories in the STEM fields, its goal being for students to construct a model of knowing and learning that will guide their future classroom practice. This course revolves around an exploration of Essential Questions (see below) specifically relevant to teaching mathematics and science. Students begin by considering what standards for knowing are to be used, how knowing and learning are structured, and how what is known changes and develops. Ultimately, students must think about the tensions between general, cross-disciplinary characterizations of knowing (e.g., intelligence) and the specifics of coming to understand powerful ideas in mathematics and science.
Prerequisites: EHS 125 [Min Grade: C] and EHS 126 [Min Grade: C]

EHS 326. Classroom Interactions. 3 Hours.
Classroom Interactions is typically the fourth UTeach course taken by students and the second in a series of three, 3-credit teaching methods courses. It follows Knowing and Learning and precedes Project-Based Instruction. Classroom Interactions builds on the Knowing and Learning course, moving from a focus on thinking and learning to a focus on teaching and learning. The course is centered around a close examination of the interplay between teachers, students, and content, and how these types of interactions enable students to develop deep conceptual understanding. Prospective teachers are also introduced to ways in which curriculum and technology are used in classroom settings to build interrelationships among teachers and students. They are taught how content and pedagogy combine to make effective teaching. The Classroom Interactions course continues the process of preparing students to teach mathematics and science in upper elementary and secondary settings. The goals for this course are to: Provide students with opportunities to see how theories explored in Knowing and Learning play out in instructional settings by designing and implementing instructional activities informed by their own understanding of what it means to know and learn mathematics and science, and then evaluating the outcomes of those activities on the basis of student artifacts (i.e., what students say, do, or create). Provide students with frameworks for thinking about equity issues in the classroom and larger school settings, make students aware of equity issues in classroom settings and their effects on learning, and provide students with strategies for teaching diverse students equitably.
Prerequisites: EHS 125 [Min Grade: C] and EHS 126 [Min Grade: C] and EHS 325 [Min Grade: C]

EHS 327. Project-Based Instruction. 3 Hours.
Project-Based Instruction (PBI) is the capstone course in the sequence of teaching methods courses (Knowing and Learning, Classroom Interactions, and PBI). UTeach students take prior to Apprentice Teaching. PBI is the course in which a number of the major principles and themes of the UTeach program—integration of mathematics and science content; infusion of technology in representation, analysis, modeling, assessment and contextualization of content; immersion in intensive field-based experiences; and a focus on designing equitable learning environments for diverse students—are synthesized as the students develop an intellectually challenging project-based instructional unit. When students complete PBI, they are fully prepared for Apprentice Teaching.
Prerequisites: EHS 125 [Min Grade: C] and EHS 126 [Min Grade: C] and EHS 325 [Min Grade: C] and EHS 326 [Min Grade: C]

EHS 401. Secondary Education Curriculum and Methods. 3 Hours.
Interaction with middle and high school teachers and students and representatives from support agencies in their respective environments. Extensive field experience required. Concurrent enrollment in EHS 402 required. (402 not required of education minors).

EHS 402. Practicum I. 1 Hour.
Reading strategies for 6-12 instruction provide foundation for constructing lesson plans in EHS 401.

EHS 410. Measurement and Evaluation in Secondary Schools. 3 Hours.
Principles of student assessment.
Prerequisites: EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]
EHS 425. Apprentice Teaching. 6 Hours.
The purpose of Apprentice Teaching is to offer UTeach students a culminating experience that provides them with the tools needed for their first teaching jobs. In Apprentice Teaching, students are immersed in the expectations, processes, and rewards of teaching. When making placements, UTeach master teachers consider each apprentice teacher’s characteristics and abilities as well as the cooperating teacher’s teaching and mentoring styles.

EHS 426. Apprentice Teaching Seminar. 1 Hour.
The purpose of Apprentice Teaching is to offer UTeach students a culminating experience that provides them with the tools needed for their first teaching jobs. In Apprentice Teaching, students are immersed in the expectations, processes, and rewards of teaching. Apprentice teachers sign up for two courses: the one-hour Seminar and the six-hour Apprentice Teaching course. Master teachers teach the seminar, share their teaching experiences and facilitate discussions, helping the apprentice teachers develop their own successful teaching identities. The Apprentice Teaching seminar provides a supportive environment where apprentice teachers share their experiences and work on solutions to difficulties they are experiencing. The seminar is a good forum for students to get the guidance they consistently want on classroom management.

EHS 456. Classroom Management in Secondary Schools. 3 Hours.
Management and instructional problems in secondary schools; techniques for improving study skills and developing better instructional planning.

EHS 458. Science Technology and Society: A Primer for Educators. 3 Hours.
Nature of momentous changes: origin, current status, and future direction. Role of educational community in helping young people better understand and deal with various issues raised.

EHS 465. Secondary Math Methods. 3-4 Hours.
Planning and organization, methods and techniques of teaching mathematics. Extensive field experience required. Concurrent enrollment in EHS 471 required.
**Prerequisites:** EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]

EHS 466. Language Arts Methods. 3-4 Hours.
Curriculum and instruction in English/language arts. Extensive field experience required.
**Prerequisites:** EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]

EHS 467. Secondary Science Methods. 3-4 Hours.
Teaching methods and curricula in secondary science programs. Extensive field experience required.
**Prerequisites:** EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]

EHS 468. Secondary Social Science Methods. 3-4 Hours.
Curriculum and instruction in social studies. Extensive field experience required.
**Prerequisites:** EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]

EHS 469. Secondary School Curriculum: Foreign Language. 3-4 Hours.
Approaches and methods of teaching and testing foreign language. Selection and use of audiovisual equipment and materials. Extensive field experience required.
**Prerequisites:** EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]

EHS 470. Practicum II. 1 Hour.
Coherent view of effective teaching and instructional design in middle and high schools. Extensive guided teaching experiences. Students implement full range of instructional process: planning, delivery, and evaluation.

EHS 471. Special Education Accommodation / Modification Lab. 1 Hour.
Knowledge and skills for helping students with special needs to successfully progress in the general education curriculum. Managing verbal and physical aggression, collaborative teaching, and strategies for adapting the general education curriculum for students with special needs.

EHS 489. Internship Seminar in Secondary Education. 1-3 Hour.
Supports and extends efforts of student teaching. Problem solving related to classroom situations such as classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship.

EHS 490. Secondary School Student Teaching I. 3-9 Hours.
Capstone experience involving observation and teaching in secondary schools.

EHS 491. Secondary School Student Teaching II. 3-6 Hours.
Supervised teaching in high school.

EHS 497. Special Problems in Education. 1-3 Hour.
Topics of current interest. May be repeated for total of 6 hours.

EHS 499. Field Studies: Select Education Setting. 1-3 Hour.
Field visits to locations of high educational impact.

**ELC-English Language Culture Courses**

ELC 009. ELCI 6-week Session. 24 Hours.

ELC 010. ELI Session. 10, 20 Hours.

ELC 011. Reading Level I. 0 Hours.

ELC 012. Integrated Skills I. 0 Hours.

ELC 013. Reading Level II. 0 Hours.

ELC 014. Writing Level I. 0 Hours.

ELC 015. Support for Beginners. 0 Hours.

Course will support students in their ELC 012 Integrated Skills and ELC 013 Vocabulary Building courses. Students will learn basic grammar and vocabulary, and speaking, listening, reading, and writing skills.

ELC 021. Reading Level II. 0 Hours.

ELC 022. Integrated Skills: Grammar, Listening and Speaking Level II. 0 Hours.

ELC 023. Vocabulary Building Level II. 0 Hours.

ELC 024. Writing Level II. 0 Hours.

ELC 031. Academic Reading Level III. 0 Hours.

ELC 032. Speaking and Listening Skills Level III. 0 Hours.

ELC 033. Grammar: Using English Accurately Level III. 0 Hours.

ELC 034. Academic Writing III. 0 Hours.

ELC 041. Academic Reading Level IV. 0 Hours.

ELC 042. Speak & Listen Skill Lvl IV. 0 Hours.

ELC 043. Grammar: Using English Accurately Level IV. 0 Hours.

ELC 044. Academic Writing IV. 0 Hours.

ELC 045. TOEFL Preparation. 0 Hours.
ELC 051. Academic Writing Level V. 0 Hours.

ELC 052. Oral Communication Level V. 0 Hours.

ELC 053. Using English Accurately Lvl V. 0 Hours.

ELC 054. Academic Reading Level V. 0 Hours.

ELC 055. Advanced TOEFL Preparation. 0 Hours.

ELC 056. Speaking and Listening. 0 Hours.

ELC 057. Pronunciation/Accent Tr I. 0 Hours.

ELC 058. Pronunciation/Accent Tr II. 0 Hours.

ELC 059. TOEFL Preparation I. 0 Hours.

ELC 060. TOEFL Preparation II. 0 Hours.

ELC 061. Business English. 0 Hours.

ELC 062. Business Writing Skills. 3 Hours.

ELC 063. American Culture Through Film. 0 Hours.

ELC 064. GRE Preparation. 0 Hours.

ELC 065. Specialized Tutoring. 0 Hours.

ELC 066. Support International Bridge. 0 Hours.

ELC 067. Individual Support Bridge. 0 Hours.

ELC 068. Common Hour II. 0 Hours.

ELC 069. Academic Writing for Non-Native English Speakers I. 3 Hours.

ELC 070. Academic Writing for Non-Native English Speakers II. 3 Hours.

ELC 071. Pronunciation/Accent Tr I. 0 Hours.

ELC 072. Pronunciation/Accent Tr II. 0 Hours.

ELC 073. TOEFL Preparation I. 0 Hours.

ELC 074. TOEFL Preparation II. 0 Hours.

ELC 075. Business English. 0 Hours.

ELC 076. Business Writing Skills. 3 Hours.

ELC 077. American Culture Through Film. 0 Hours.

ELC 078. GRE Preparation. 0 Hours.

ELC 079. Independent Study. 0 Hours.
**EMC 133. Paramedic NSC I Clinical. 2 Hours.**

**EMC 134. Paramedic NSC I. 5 Hours.**

**SITES:** Baptist Princeton ER, Medical Center East ER, Cahaba Valley Fire and Rescue, Trussville Fire and Rescue. ER ambulance), and 32 hours of Emergency Department rotations. FIELD emergent cardiac care of both pediatric and adult patients alike.

**EMC 137. Paramedic NSC II Clinical. 2 Hours.**

**EMC 234. Paramedic NSC III I. 3 Hours.**

**EMC 392. Advanced EMS Pharmacology. 3 Hours.**

**EMC 138. Paramedic NSC II. 5 Hours.**

**EMC 237. Paramedic NSC IV Clinical. 3 Hours.**

**EMC 236. Paramedic NSC III. 6 Hours.**

**Prerequisites:** EMC 133 [Min Grade: C]

**EMC 235. Paramedic NSC III Clinical. 2 Hours.**

**EMC 236. Paramedic NSC IV Clinical. 3 Hours.**

**EMC 237. Paramedic NSC IV Clinical. 6 Hours.**

**EMC 302. Advanced Cardiac Life Support. 2 Hours.**

**EMC 238. Paramedic NSC IV Clinical. 6 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 303. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 304. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 305. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 306. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 307. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 308. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 309. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 310. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 311. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 312. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 313. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 314. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]

**EMC 315. Advanced Cardiac Life Support. 2 Hours.**

**Prerequisites:** EMC 302 [Min Grade: C]
EMC 394. Advanced Study in Trauma For EMS. 3 Hours.  
This course will provide a detailed study of a new philosophical overview to trauma care, stressing the need to identify and consider the multisystem trauma patient as a unique entity with special and specific needs. Specific emphasis will be placed on an increased understanding of Kinematics, the pathophysiology of life-threatening etiologies and their systemic impact, the physiological meaning of signs and symptoms, and the skills necessary to perform a meaningful patient assessment, necessary to identify the multi-system trauma patient’s individualized needs. Considerations of the elements of water induced trauma with their management techniques and the equipment necessary to rescue aquatic accident victims while properly protecting the rescuer will be included.

EMC 396. Advanced Study in Cardiology for EMS. 3 Hours.

EMC 397. EMS Instructor/Coordinator Course. 3 Hours.  
The EMS Instructor/Coordinator course is designed to provide the student with a concise and practical demonstration of the processes involved in the preparation, presentation, and evaluation of instruction. The course format is one of didactic presentation followed by knowledge and skills application. Topics include: adult learning theories, the development of behavioral and learning objectives, lesson plan development, test construction, evaluation of the exams, maximizing student learning, training aids and audio-visuals, computer enhanced education, enhancing student participation, shaping student performance, teaching and testing psychomotor skills, roles and responsibilities of the instructor, and administrative duties and requirements of instructors.

EMC 399. Toxicology in EMS. 3 Hours.  
This course will provide a detailed study concerning the importance of toxicological emergencies in pre-hospital care with specific emphasis on the various entry routes of toxic substances into the body and appropriated management of each: ingested, inhaled, injected, and surface absorbed poisons. Discussion of the role of the poison control centers within the EMS system as well as the pre-hospital use of nonspecific or specific antidotes for the various type of poisonings. Management considerations for substances abuse and alcoholic patients will also be included. Consideration of toxic effects of prescribed drugs upon the elderly with discussion toward changes through health education.

EMC 410. Critical Care Transport I. 4 Hours.  
Introduces theory and skills required during transport of the critical adult or child. Presents medicolegal and communicable disease issues. Includes assessment, stabilization, and treatment of respiratory, neurologic, and GI/GU/renal conditions, as well as shock and multisystem failure.

EMC 411. Critical Care Transport II. 4 Hours.  
Introduces theory and skills required during transport of the critical adult or child. Presents choreography of the critical care transport and aeromedical physiology. Includes assessment, stabilization, and treatment of cardiovascular conditions utilizing hemodynamic monitoring, 12-lead EKG, and IABP.

EMS-Middle School Education Courses

EMS 330. Introduction to Middle/Junior High Teaching. 3 Hours.  
Survey of curriculum, methods and techniques of teaching, materials for instruction, and evaluation of instruction. Extensive field experience required.

EMS 335. Mat/Methods Teaching Middle School. 3 Hours.  
Development of skills and techniques for teaching 10-14 year olds. Two-thirds of course dedicated to generic skills and techniques needed to teach all children in age group and one-third to specific skills discipline for which student is seeking certification. Teacher as decision maker. Extensive field experience required.

EMS 343. Implic Growth/Development in Middle School. 3 Hours.  
Developmental stages of students ages 10-14 with emphasis on developing curricula and teaching strategies compatible with these growth stages. Extensive field experiences required.

EMS 351. Teaching Language Arts in Middle/Junior High School. 3 Hours.  
Methods of teaching middle grades language arts. Extensive field experiences required. Prerequisites: Admission to TEP.  
Prerequisites: EMS 343 [Min Grade: C]

EMS 352. Teaching Mathematics in Middle/Junior High School. 3 Hours.  
Methods of teaching middle grades mathematics. Extensive field experiences required. Admission to TEP required.  
Prerequisites: EMS 343 [Min Grade: C]

EMS 354. Teaching Social Studies in Middle/Junior High Sch. 3 Hours.  
Methods of teaching middle grades social studies. Extensive field experiences required. Admission to TEP required.  
Prerequisites: EMS 343 [Min Grade: C]

EMS 355. Laboratory/Practicum in Middle School Education. 1 Hour.

EMS 451. Workshop in the Middle School. 1-3 Hour.

EMS 490. Student Teaching Middle/Junior High School I. 9 Hours.  
Teaching in middle/junior high school.  
Prerequisites: EMS 330 [Min Grade: C] and EMS 343 [Min Grade: C] and EDR 440 [Min Grade: C] and EDR 442 [Min Grade: C] and EDT 300 [Min Grade: C]

EMS 491. Student Teaching in Middle/Jr High School II. 3.6 Hours.  
Supervised teaching in middle/junior high school.

EMU-Music Education Courses

EMU 402. Methods of Teaching Music N-6. 3 Hours.  
Organization of appropriate music concepts and musical experiences for all elementary children; development of methods and skills needed for direct student involvement in musical experiences for each grade level.

EMU 403. Methods of Teaching Music N-6 Lab. 1 Hour.  
Public school observation experiences for music education students enrolled in EMU 402.

EMU 404. Methods of Teaching Music in Secondary Education. 3 Hours.  
Aims, principles, and philosophies of music; various methods of teaching in secondary schools for both non-performance music classes and instrumental and vocal activities. Laboratory includes direct method application in secondary music classrooms.

EMU 405. Methods of Teaching Music in Secondary Education Lab. 1 Hour.  
Public school observation experiences for music education students enrolled in EMU 404.
ENH 400. Our Global Environment: Issues and Challenges. 3 Hours.
This course will consider how biological, chemical and physical agents in the environment impact human health. Sources, routes of exposure, human health impacts and risk reduction will be discussed for each topic. Topics include indoor air pollution, medical radiation, noise, food and water contaminants, pests and pesticides, hazardous and solid waste treatment, natural disasters, biological and chemical terrorism, regulatory agencies and legislation, risk awareness and reduction.

ENH 401. Environmental Chemistry. 3 Hours.
This didactic lecture course consists of 5 parts: (1) Atmospheric Chemistry and Air Pollution, (2) Energy and Climate Change, (3) Water Chemistry and Water Pollution, (4) Toxic Organic Compounds, and (5) Environment and the Solid State. Weaved into this course are the concepts of social responsibility towards the environment, sustainability, and green chemistry.
Prerequisites: CH 115 [Min Grade: C]

ENH 405. Nature vs. Nurture: Genes, Environment and Health. 3 Hours.
This didactic lecture course will examine how components of the world around us impact our lives and health. The classic battle of nature (genes) vs. nurture (environment) is being replaced with the understanding of how our exposure to our environment impacts gene expression, which can increase (or decrease) our own likelihood of disease. Using everyday, real-world examples we will study the environment-gene interaction and how this helps determine why some people are more disease prone than others. Each example will focus on the underlying science and the medical consequence of exposure, and will also examine exposure prevention strategies for individuals and practical legislation to reduce environmental contamination. Examples will vary from year to year, but damaging examples may include nanoparticles, smog, medical radiation, drugs and alcohol, pesticides, noise, indoor air pollution, toxic metals, plastics, food and water contamination, and sexually transmitted infections. We will also discuss how the environment can positively impact gene expression, and will include discussions of functional foods (i.e. nutraceuticals such as soy, green tea and garlic) and other alternative medicinal therapies. Prerequisite: BY116 or equivalent is required; completion of or registration in BY210 or BY330 is recommended.

ENH 490. Internship in Music Education. 9 Hours.
Supervised capstone teaching experience in grades N-12 as appropriate to student’s teaching field (general music, instrumental music, or vocal/choral music).
Prerequisites: EPR 410 [Min Grade: C] and EMU 402 [Min Grade: C] and EMU 404 [Min Grade: C]

ENH 499. Internship Seminar in Music Education N - 12. 1 Hour.
Capstone course for the B.A. in Music Education. Students will demonstrate the skills expected of a professional music educator. This course is a supervised teaching course where the student is expected solve problems in all issues related to classroom management, assessment, and music making. Included in the assessment will be the creation of professional documents, appropriate budgets, and supervised teaching experiences. Prerequisites: Completion of methods courses with no grade below C. Corequisite: EMU 490. 1 hour.

ENH-Environmental Health Sci Courses

ENH 300. Toxicology: Poisons, People and the Environment. 3 Hours.
Basic principles in toxicology will be covered including: dose-response relationships; absorption, distribution, storage, biotransformation and elimination of toxicants; target organ toxicity; mutagenesis and carcinogenesis; and an overview of fate and transport of contaminants in the environment. The course will focus on contaminants of environmental and public health interest and will include the fascinating roles toxins have played in human history.
Prerequisites: PUH 210 [Min Grade: C]

ENH 301. The Workplace Environment and Worker Safety and Health. 3 Hours.
This course will explore known physical and chemical hazards found in the workplace, and we will combine our technical knowledge with skills to identify and control work-related hazards. We will begin with the importance of key events and milestones in the history of worker safety and health. We will research the ethical, legal and social implications associated with the working environment. We will define the related roles and responsibilities of government, non-government agencies, private organizations, businesses and industry in worker safety and health.

ENH 310. Environmentalism, Environmental Justice, and Ethics. 3 Hours.
In this course students will investigate and analyze the disproportionate burdens of environmental contamination and the health disparities affecting communities of color across the U.S. and internationally. Using a broad range of examples we will look at the incidents that lead to this grass roots movement, many of which came from towns and peoples of the Deep South.

ENH 400. Our Global Environment: Issues and Challenges. 3 Hours.
This course will consider how biological, chemical and physical agents in the environment impact human health. Sources, routes of exposure, human health impacts and risk reduction will be discussed for each topic. Topics include indoor air pollution, medical radiation, noise, food and water contaminants, pests and pesticides, hazardous and solid waste treatment, natural disasters, biological and chemical terrorism, regulatory agencies and legislation, risk awareness and reduction.

ENH 404. Internship Seminar in Environmental Health Sciences. 1-6 Hour.
This course is a supervised teaching course where the student is a member, and must present their work at the end of their last semester of registration (students may register for 1 or 2 semesters, 2 being preferred) in the form of a thesis which also must be defended.
ENT-Technology Entrepreneurship Courses

ENT 270. Idea to Entrepreneur. 3 Hours.
This introductory course takes students on the journey from a promising idea through the steps necessary to turn the idea into a product, and the product into a company. Course topics include due diligence, researching the marketplace and competition, and formulating a plan for commercialization. Also included are meetings with local entrepreneurs and brainstorming sessions with some of UAB’s most innovative and creative thinkers.

ENT 424. New Product Development. 3 Hours.
This course is part of a two semester series, taught jointly with the School of Engineering. Team-based learning includes building a prototype device and the accompanying business plan and design to bring the product to market. The course will focus on business planning activities including market research, competitive analysis, intellectual property protection, basic finances and business model design.

ENT 426. Practicum in Commercialization. 3 Hours.
Students gain first-hand experience in product commercialization while receiving academic credit by working in cross-disciplinary teams with students in The School of Engineering to develop a commercialization plan corresponding to an original product design.

ENV-Environmental Science Courses

ENV 108. Human Population and the Earth’s Environment. 3 Hours.
Influence of human population on Earth’s environment. Specific attention will be paid to environmental issues such as population growth, climate change, water and energy resources, pollution, waste disposal, plant and animal extinctions, and food resources. Strong emphasis will be placed on determining solution to the variety of environmental problems facing the earth. Lecture and film. Ethics and Civic Responsibility are significant components of this course (QEP).

ENV 109. Laboratory in Environmental Science. 1 Hour.
Experiments on topics essential to study of environment and which reveal complexity of solving environmental problems. Writing, Ethics and Civic Responsibility are significant components of this course (QEP).

Prerequisites: ENV 108 [Min Grade: D](Can be taken Concurrently)

EPI-Epidemiology Courses

EPI 222. Public Health Issues in Physical Activity and Obesity. 3 Hours.
The purpose of this course is to provide an overview of the components of health and fitness within the context of the epidemiological evidence establishing the links between various types of health behaviors and risk factors (e.g., physical activity, body composition, diet, sleep, etc.) and health outcomes.

EPR-Educational Psychology Courses

EPR 214. Introduction to Educational Statistics. 3 Hours.
This introductory statistics course will cover basic descriptive and inferential statistics to include the following: Measures of central tendency; measures of variability; frequency distributions; normal curve of distribution; probability; sampling; regression; hypothesis testing, and analysis of variance.

EPR 350. Introduction to Human Services. 4 Hours.
The purpose of this course is to examine the broad range of services and functions of the human service professional in his/her workplace. The student will become knowledgeable about the many roles and functions of the human service professional. They will also gain an understanding of the types of agencies where human service professionals are employed, and they will be exposed to an overview of the human service profession. Students taking human service classes will be required to take this course as a prerequisite for many other HS courses. Students will complete 20 hours of volunteer service as a requirement of this class.

EPR 363. Foundations of Education II: Psychological. 3 Hours.
Psychological principles basic to the understanding of the learner, learning process, and learning situation is covered, as well as all major principles of Human Development. Twenty-Five hours of field experiences required.

Prerequisites: EDU 200 [Min Grade: C](Can be taken Concurrently)

EPR 410. Measurement/Eval in Edu. 3 Hours.
For early childhood/elementary education majors only. Basic concepts and principles of measurement and evaluation of personal and academic progress in classroom. Elementary descriptive statistics and measurement techniques used in student evaluation. Quantitative literacy is a significant component of this course (QEP).

Prerequisites: EEC 301 [Min Grade: C]

EPR 411. Measurement and Evaluation in Education. 3 Hours.
For secondary education majors only. Principles of student assessment. Basic concepts and principles of measurement and evaluation of personal and academic progress in classroom. Elementary descriptive statistics and measurement techniques used in student evaluation. Quantitative Literacy is a significant component of this course (QEP).

Admission to TEP required.

Prerequisites: EHS 401 [Min Grade: C]

EPR 414. Lifespan Human Development. 3 Hours.
Physical, cognitive, social development and moral across lifespan, including death and dying.

Prerequisites: PY 101 [Min Grade: C]

EPR 415. Case Management. 3 Hours.
This introductory course defines case management, discusses its history, and it describes the models used in case management in the helping professions. Phases of case management, intake interviewing, and planning are emphasized.

Prerequisites: EPR 350(Can be taken Concurrently)

EPR 420. Communication Skills in Human Services. 3 Hours.
This course provides fundamental knowledge about professional relationships, basic perspectives, and the change process to students who are preparing for careers in human services. It also provides students with opportunities to learn the basic practice skills necessary to work effectively with client systems.

EPR 425. Community Resource Identification/Mobilization in Human Services. 3 Hours.
This course provides an overview of community change, and it discusses theoretical issues and principles that promote change. Further, it introduces models of community change, provision of services, change agents, identification of resources, and community mobilization.
This course will focus on the atmosphere, weather, climate, and climatic regions, and soils. Students will develop an advanced knowledge of climate change, nonprofficial sector, and governmental agencies. The course will also give students the foundation and tools needed to implement these plans into action. Students will develop an advanced knowledge of philanthropy by creating at least one major fundraising plan focusing on one area.

EPR 460. Leadership in Non-Profit Administration. 3 Hours.
This course will provide practical and theoretical perspectives that are integrated in this course which will help leaders and students in human services consider the complexities of moral and ethical questions. The course focuses on theoretical and practical applications of building ethical organizations and discusses ways to shape the ethical policies and practices of an organization. A conceptual framework of ethical leadership is provided that incorporates the moral nature of human service organization and the ethical responsibility of professional leadership.

EPR 461. Leadership in Non-Profit Administration. 3 Hours.
This course will provide practical and theoretical perspectives that are integrated in this course which will help leaders and students in human services consider the complexities of moral and ethical questions. The course focuses on theoretical and practical applications of building ethical organizations and discusses ways to shape the ethical policies and practices of an organization. A conceptual framework of ethical leadership is provided that incorporates the moral nature of human service organization and the ethical responsibility of professional leadership.

EPR 490. Internship in Human Services. 6 Hours.
The 300-hour internship is designed to give students an opportunity to apply the knowledge and skills in a human service agency. Students will apply theories, concepts and philosophies of human services, management, supervision, and leadership. They will develop a plan and carry through with projects assigned. They will engage in self-evaluation, establish positive interpersonal and professional relationships, and follow ethical guidelines.

ES 108. Physical Geology Laboratory. 1 Hour.
Study of the earth, its materials and natural resources, processes of change, natural hazards to mankind. Lecture.

ES 109. Planet Earth. 3 Hours.

ES 110. The Geography of Alabama. 3 Hours.
The physical geography of Alabama: geologic setting, landscape, climate and weather, soils and vegetation, natural resources.

ES 120. Geology for Engineers. 3 Hours.
The solid earth, the nature of the earth's crust, surficial processes.

ES 191. Co-op Work Program. 2-3 Hours.

ES 199. Honors Experiential Learning Plan. 0 Hours.
Provides an opportunity for a customized learning plan to integrate the student's values, goals, academic plan to include but not limited to applicable and relevant research, service learning, and study away experiences.

EL 101. Honors Freshman Seminar - Special Topics. 3 Hours.
Freshman Year Experience (FYE) course for students in the Experiential Learning Scholars Program (ELSP). This class will prepare students for a successful college career in any field of study and will include an experiential learning component. Course varies in content based on special topics of interest to incoming students.

EL 199. Honors Experiential Learning Plan. 0 Hours.
Provides an opportunity for a customized learning plan to integrate the student's values, goals, academic plan to include but not limited to applicable and relevant research, service learning, and study away experiences.

EL 299. Experiential Learning Activity. 0 Hours.
Expansion of EL 199. Requires student engagement in the activities outlined in the Honors Experiential Learning Plan.

EL 399. Honors Participation Activities. 0 Hours.
Student actively participates in a variety of social, educational, service and cultural activities throughout the semester.

EL 499. Senior Honors Project. 0 Hours.
Cumulative synthesis of the student's academic, real-world, and unique experiences in the field which is shared with other students and faculty.

ES-Earth Science Courses

ES 101. Physical Geology. 3 Hours.
Study of the earth, its materials and natural resources, processes of change, natural hazards to mankind. Lecture.

ES 102. Physical Geology Laboratory. 1 Hour.
Study of properties and uses of rocks and minerals. Study of landscapes and various types of maps. One laboratory session per week. Prerequisites: ES 101 [Min Grade: D](Can be taken Concurrently)

ES 103. History of the Earth. 3 Hours.
Interpretation of Earth's history through geologic time. Study of life on Earth through the fossil record. Lecture.

ES 104. History of the Earth Laboratory. 1 Hour.
Sedimentary materials and environments of formation. Fossil identification. Geologic time and principles of age-dating. One laboratory session per week.

ES 105. Physical Geography. 3 Hours.
Atmosphere, weather, climate and climatic regions, and soils.


ES 110. The Geography of Alabama. 3 Hours.
Geologic setting, landscape, climate and weather, soils and vegetation, natural resources.

ES 120. Geology for Engineers. 3 Hours.
The solid earth, the nature of the earth's crust, surficial processes.

ES 191. Co-op Work Program. 2-3 Hours.

ESP-Edu School Psychometry Courses

Experiential Learning Courses

EL 101. Honors Freshman Seminar - Special Topics. 3 Hours.
Freshman Year Experience (FYE) course for students in the Experiential Learning Scholars Program (ELSP). This class will prepare students for a successful college career in any field of study and will include an experiential learning component. Course varies in content based on special topics of interest to incoming students.

EL 199. Honors Experiential Learning Plan. 0 Hours.
Provides an opportunity for a customized learning plan to integrate the student's values, goals, academic plan to include but not limited to applicable and relevant research, service learning, and study away experiences.

EL 299. Experiential Learning Activity. 0 Hours.
Expansion of EL 199. Requires student engagement in the activities outlined in the Honors Experiential Learning Plan.

EL 399. Honors Participation Activities. 0 Hours.
Student actively participates in a variety of social, educational, service and cultural activities throughout the semester.

EL 499. Senior Honors Project. 0 Hours.
Cumulative synthesis of the student's academic, real-world, and unique experiences in the field which is shared with other students and faculty.

FLC-Freshman Learning Comm Courses

FLC 101. Freshman Seminar. 3 Hours.
As the anchor course for each Freshman Learning Community, the Freshman Seminar introduces students to the Shared Vision for a UAB Graduate and especially to the targeted competencies (writing, quantitative literacy, ethics and civic responsibility) within the context of a particular academic theme or focus.

FLL-Foreign Languages Courses

FLL 101. Introductory Foreign Language I. 3 Hours.
Introduction to a less commonly taught Foreign Language and culture. Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Offered on demand in target language. Language selection rotates. (Core Area II).

FLL 120. Foreign Cultures. 3 Hours.
Exploration of the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. Strong emphasis on the epistemology, production, and reception of culture, within and beyond the borders of a particular nation-state. (Core Area II) Ethics and Civic Responsibility are significant components of this course (QEP).
FLL 160. Freshman Year Experience: Foreign Languages. 1 Hour.
The objective of this course is to introduce incoming freshmen to an education in foreign languages and world cultures in context of the university. It is meant to help prepare students for a successful collegiate career in the study of foreign languages.

FLL 190. Study Abroad: Foreign Language. 1-6 Hour.
Approved novice level study abroad program for a foreign language not regularly offered at UAB, which takes place in a foreign country. Permission of the Department Chair and the Study Abroad Director.

FLL 199. Directed Reading: Foreign Lang. 3 Hours.
This is an individualized course of directed readings and activities for novice Foreign Language students in a foreign language that is not offered regularly at UAB. The course may be offered in the case of a visiting professor in a language that is beyond the scope of regular instructional languages. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy and knowledge of foreign languages.

FLL 200. Foreign Literatures in English Translation. 3 Hours.
Introduction to cross-cultural theory of genre and human experience with a particular emphasis on the historical and cultural context in which literary traditions are shaped, interpreted and reinvented. FLL 220 invites the students to think critically about the formation of literary canons and the ethics of translating cultural difference/sameness. Ethics and Civic Responsibility are significant components of this course (QEP).

FLL 290. Study Abroad: Foreign Language. 1-6 Hour.
Approved novice level study abroad program for a foreign language not regularly offered at UAB, which takes place in a foreign country. Permission of the Department Chair and the Study Abroad Director.

FLL 299. Directed Reading: Foreign Lang. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Foreign Language students in a foreign language that is not offered regularly at UAB. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy and knowledge of foreign languages.

FLL 303. History of World Movies I: The Origins to 1960. 3 Hours.
From the first silent movies to the development of the modern color sound movie of Hollywood in the fifties: comparison and contrast of the views of major film makers of the sixties of the 20th century.

FLL 304. History of World Movies II. 3 Hours.
From the modern color sound movie of the fifties and the Nouvelle Vague to the latest movies produced around the globe: comparison and contrast of the views of filmmakers of the last forty years.

FLL 305. Borders and Crossings Inside the Global Village. 3 Hours.
Exploration of the notions of home, migration, environment, and the frontiers of race, class, and gender in relation to the debate on immigration and citizenship in North Africa and beyond. Sophomore standing required.

FLL 333. Foreign Language Internship/SL. 1-6 Hour.
Faculty-supervised opportunity for practical experience in tasks of international scope, may provide opportunities to use language(s) studied or applications of cultural knowledge.

FLL 334. Foreign Language Internship. 0 Hours.
Faculty-supervised opportunity for practical experience in tasks of international scope, may provide opportunities to use language(s) studied or applications of cultural knowledge.

FLL 350. Intro to Romance Linguistics. 3 Hours.
This course provides an introduction to the grammar of Romance languages, with emphasis on French and Spanish. Students will learn about the phonology (sound system), morphology, and syntax of French and Spanish. The course content is presented in a contrastive way, and it is related to the historical background that led to the separation of Latin into the modern Romance languages.

Prerequisites: EH 102 [Min Grade: C]

FLL 410. Undergraduate Foreign Language Research. 1-6 Hour.
This is an individualized course of directed readings and research for Foreign Language Students. Course design is determined by the instructor and student and will be tailored to a specific research project. The goal of the course is to increase knowledge of research design and practices in the foreign language discipline. Permission of the Department Chair.

FLL 485. Foreign Language Capstone Seminar. 3 Hours.
Advanced seminar on broad cultural and cross-cultural topics in foreign languages, literatures, and critical theory. Students must complete a Capstone project including substantial Writing assessments with a strong emphasis on Ethics and Civic Responsibility, where they apply cultural literacy in a critical and reasoned manner toward understanding contemporary and/or past foreign cultures. Selected courses may also include a Quantitative Literacy component. Taught in English, readings assignments in English and/or foreign languages. Senior standing, FLL 120, FLL 220 or EH 218 and at least 6 semester hours at the 300 level of student's target language track.

Prerequisites: FLL 120 [Min Grade: C] and FLL 220 [Min Grade: C] or EH 218 [Min Grade: C]

FN-Finance Courses

FN 101. Personal Finance. 3 Hours.
Selected aspects of finance encountered by an individual during his or her lifetime. Lower-level elective credit only. Not applicable to the finance major. Open to all UAB students.

FN 310. Fundamentals of Financial Management. 3 Hours.
Introduction to the basic principles of financial management emphasizing quantitative and qualitative analysis of time value of money, stock and bond valuation, and capital budgeting; risk/return analysis, cost of capital, capital structure and cash flow analysis. Quantitative Literacy is a significant component of this course (QEP).

Prerequisites: (AC 201 [Min Grade: C] and (IS 103 [Min Grade: C] or MG 103 [Min Grade: C] or EC 211 [Min Grade: C] or EC 210 [Min Grade: C]) and LS 246 [Min Grade: C]) and QM 215 [Min Grade: C] and (EC 210 [Min Grade: C] or EC 202 [Min Grade: C] and GPAT and GPAQ 2.00) or (AC 211 [Min Grade: C] or EC 211 [Min Grade: C] or EC 210 [Min Grade: C]) and (EC 202 [Min Grade: C]) and (IS 103 [Min Grade: C] or MG 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAQ 2.00 and GPAQ 2.00

FN 311. Short-Term Financial Management. 3 Hours.
Multidisciplinary approach to analysis of financial statements and working capital management. Financial planning, corporate liquidity, and short-term financial policy issues.

Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAQ 2.00 and GPAQ 2.00)
FN 320. Financial Research Methods. 3 Hours.
Introduction to commercial and publicly available financial research databases and the basics of data analysis.
Prerequisites: (IS 303 [Min Grade: C] and EC 301 [Min Grade: C] and FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (IS 303 [Min Grade: C] and EC 301 [Min Grade: C] and FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 350. Equity Portfolio Management. 3 Hours.
Investment theory with emphasis on risk-return tradeoff; equity investment instruments and environment, sources and interpretation of investment information, portfolio theory, market indices, options and futures, and international investing.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 351. Bond Portfolio Management. 3 Hours.
Fixed income markets and instruments, including valuation and portfolio strategies. Derivatives of fixed income securities.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 360. Fundamentals of Healthcare Financial Management. 3 Hours.
Basic principles of healthcare financial management emphasizing time value of money, stock and bond valuation, and capital budgeting; risk-return analysis, cost of capital, capital structure, and cash flow analysis in the context of Healthcare organizations. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C]

FN 370. Principles of Real Estate. 3 Hours.
Upper division course designed to provide the student with a solid foundation for making real estate decisions. Course involves computer-based assignments.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 410. Advanced Financial Management. 3 Hours.
Analysis of long-term corporate financial management; detailed stock and bond valuation, cost of capital, capital budgeting, cash-flow analysis, capital structure, and dividend policy.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 411. Case Studies in Financial Management. 3 Hours.
Case method approach to study of applied and special topics in financial management; spreadsheet applications used in analysis of initial public offerings, imbedded options, leases, mergers, bankruptcy, and pension plan management.
Prerequisites: (FN 410 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 410 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 412. International Financial Management. 3 Hours.
Financial analysis and decision making in international context. All traditional areas of corporate finance explored.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 420. Financial Sales & Trading. 3 Hours.
This course introduces interactive trading in financial instruments. Students learn the principles of asset price discovery through real-time trading in a variety of markets, including equities, bonds, options and derivatives. Topics addressed include asset valuation, portfolio management, and risk management in the context of real-time trading of financial instruments.
Prerequisites: (FN 310 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and GPAT and GPAU 2.00) or (FN 310 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 452. Management of Financial Intermediaries. 3 Hours.
Roles, activities, and functions of financial institutions and their interrelationships.
Prerequisites: (FN 310 [Min Grade: C] and EC 301 [Min Grade: C] and GPAT and GPAU 2.00 and GPAO 2.00) or (FN 310 [Min Grade: C] and EC 301 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 453. Financial Risk Management. 3 Hours.
Domestic and international risk management issues. Tools to measure and manage interest rate; exchange rate and commodity price risks.
Prerequisites: (FN 350 [Min Grade: C] and FN 410 [Min Grade: C] and FN 412 [Min Grade: C] or IB 412 [Min Grade: C] and GPAT and GPAU 2.00) or (FN 350 [Min Grade: C] and FN 410 [Min Grade: C] and FN 412 [Min Grade: C] or IB 412 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 460. Finance Internship. 3 Hours.
A work experience to enable students to better integrate academic knowledge with practical applications and to enhance students’ educational experiences by making subsequent study more meaningful. Permission of the instructor required.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 470. Real Estate Finance. 3 Hours.
A study of the instruments, techniques and institutions of real estate finance and the use of financial analysis in real estate decisions.
Prerequisites: (FN 370 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 370 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 475. Real Estate Investment Analysis and Valuation. 3 Hours.
A study of investment analysis for real estate decisions, including taxation, risk, financial leverage, land use and market analysis will be covered in depth.
Prerequisites: (FN 310 [Min Grade: C] and FN 370 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and FN 370 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 490. Advanced Topics in Finance. 3 Hours.
Issues and problems in selected areas of finance.
Prerequisites: (GPAT and GPAO 2.00) or (GPAT and GPAO 2.00)

FN 495. Investments and Institutions Capstone. 3 Hours.
This course consists of selected case studies to be presented in class by student teams. The objective is to encourage the students to develop the ability to identify problems, apply the tools of finance, evaluate alternatives and arrive at viable solutions to the problems in each case.
Prerequisites: (FN 310 [Min Grade: C] and FN 320 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and FN 360 [Min Grade: C] and AC 320 [Min Grade: C] and AC 420 [Min Grade: C] or IS 420 [Min Grade: C] and GPAT and GPAU 2.00) or (FN 310 [Min Grade: C] and FN 410 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and AC 320 [Min Grade: C] and AC 420 [Min Grade: C] or IS 420 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 496. Financial Management Capstone. 3 Hours.
This course requires students to integrate, extend, analyze, and apply knowledge gained in the financial management curriculum to demonstrate mastery of the financial management discipline. Concepts from working capital management, capital budgeting, capital structure, dividend policy, and financial risk management, among other special topics, will be considered. The course is conducted in a seminar format through case analysis and a major research project.
Prerequisites: (FN 310 [Min Grade: C] and FN 412 [Min Grade: C] or IB 412 [Min Grade: C] and GPAT and GPAO 2.00) and (FN 310 [Min Grade: C] and FN 412 [Min Grade: C] or IB 412 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

FN 499. Directed Readings in Finance. 1-3 Hour.
Supervised study of specific areas of finance.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

FR-French Courses

FR 101. Introductory French I. 4 Hours.
Introductory French I- Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing and reading. Additional Quantitative Literacy Component. Conducted in French. Quantitative Literacy is a significant component of this course (QEP).

FR 102. Introductory French II. 4 Hours.
Continuation of FR 101. Essential of language and culture needed for communication. Includes listening comprehension, speaking writing and reading. Conducted in French.

FR 108. Introductory Intensive French. 4 Hours.
Intensive study of the essentials of language needed for proficient communication. This is a high-paced course, which includes basic exercises in listening comprehension, speaking, writing and reading, as it combines FR 101 and 102. Includes a one-hour lab requirement.

FR 190. Study Abroad. 1-6 Hour.
First-year level of approved study-abroad program in a French-speaking country.

FR 201. Intermediate French I. 3 Hours.
Comprehensive review of grammar and composition through written exercises of reading and writing proficiency, listening comprehension, and speaking skills. Conducted in French.

Continuation of French 201. Continued review of grammar and composition through written exercises of reading, writing, listening comprehension, and speaking skills. Conducted in French. (Core Area II).

FR 206. Intermediate Business French. 3 Hours.
Concentration on writing letters, negotiations and vocabulary build-up for the legal, medical or business fields. Conducted in French. May not concurrently enroll in FR 306.

FR 210. Intermediate French Culture. 3 Hours.
Overview of contemporary French cultural identity, in the context of geographical, social and educational dynamics. Conducted in French. May not concurrently enroll in FR 310.

FR 211. Intermediate Survey of French Literature. 3 Hours.
Intermediate-level overview of French literature and civilization from the seventeenth century to the present. Conducted in French. May not concurrently enroll in FR 311.

FR 220. Intermediate French Composition. 3 Hours.
Fundamental composition course focusing on syntactical patterns of French, vocabulary building, correct usage, stylistic control, writing skills, and free composition. Conducted in French. May not concurrently enroll in FR 320. Writing is a significant component of this course (QEP).

FR 230. Intermediate French Conversation. 3 Hours.
Acquisition of conversational and listening skills, vocabulary, and oral automatisms. Conducted in French. May not concurrently enroll in FR 330.

FR 290. Study Abroad. 1-6 Hour.
Approved program in a French-speaking country. Prerequisite: Permission of Department Chair.

FR 305. French-Speaking Cinema. 3 Hours.
Overview of French-speaking cinema from the end of the nineteenth century to the present. Emphasis on the cinema of lEntre deux Guerres, la Nouvelle Vague, and French-speaking movies from Africa. Conducted in French.

FR 306. Business French. 3 Hours.
Concentration on writing letters, negotiations and vocabulary build-up for the legal, medical, or business fields. Conducted in French.

FR 307. Advanced Grammar and Composition I. 3 Hours.
Thorough review of principles of French grammar, vocabulary, and idioms. Also comparative linguistics and phonetics. Conducted in French.

FR 308. Advanced Grammar and Composition II. 3 Hours.

FR 310. Advanced French Culture. 3 Hours.
Overview of the culture of contemporary France with emphasis on social, political, and economic institutions. Concentrates on understanding and comparing French cultural, social, educational, institutional, political, and technological dynamics, at an advanced level. Conducted in French. May not take concurrently with FR 210.

FR 311. Advanced Survey of French Literature. 3 Hours.
Overview of French literature and civilization from the seventeenth century to the present. Conducted in French. May not take concurrently with FR 211.

FR 320. Advanced French Composition. 3 Hours.
Fundamental composition course which focuses on the syntactical patterns of French, vocabulary building, correct usage, stylistic control, writing skills, and free composition. Integrates the four language skills into a structured approach to composition. Conducted in French. May not take concurrently with FR 220.

FR 330. Advanced French Conversation. 3 Hours.
Acquisition of conversational and listening skills, vocabulary, and oral automatisms. Conducted in French. Prq: 6 hours of French at the minor level (or equivalent) or permission of instructor. May not concurrently enroll in FR 230.

FR 390. Study Abroad. 1-6 Hour.
Approved program in a French-speaking country.

FR 399. Special Readings in French. 3 Hours.
Individualized course of directed readings and activities for students of French. Permission of department chair required.
FR 401. Pre-Revolutionary France (1610-1789). 3 Hours.
Literature, culture, and civilization of seventeenth- and eighteenth-century France, reflecting the historical and literary ambience in which Ancient Regime writers, philosophers, and artists worked. Selected works of representative authors. Conducted in French.

FR 402. Post-Revolutionary France (1789-1913). 3 Hours.
Literature, culture, and civilization of late eighteenth-, nineteenth-, and early twentieth-century France, illustrating the impact of the French Revolution on the historical and literary ambience of Europe and the Americas. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 403. Fin-de-Siècle France (1895-1940). 3 Hours.
Major literary and artistic movements of fin-de-siècle France, from La Belle Époque period through World War I. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 404. French Literature since 1940. 3 Hours.
Cultural trends and literary movements from World War II to the present, including existentialism and the nouveau roman. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 405. Francophone Literature. 3 Hours.
French-speaking literature outside France that developed through colonization, decolonization, revolution, and emigration. Representative writers from Francophone countries with emphasis on Africa and the Caribbean. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 410. Special Topics in French. 3 Hours.
Seminar on individual authors, specific genres, important literary movements, or literary discourse/theory. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 412. French Civilization: before 1789 Pre-Revolutionary. 3 Hours.
Historical and cultural foundation of France, from its conquest by Julius Caesar to the French Revolution. Conducted in French.

FR 413. French Civilization after 1789 Post-Revolution. 3 Hours.
The history and myths of France after the French Revolution that produced French civilization. Conducted in French.

FR 490. Study Abroad. 1-6 Hour.
Approved program in a French-speaking country.

FR 499. Directed Studies. 3 Hours.
Individualized course of directed readings and activities for students of French. Permission of department chair required.

FS-Forensic Science Courses

FEL 410. Fellowship Application. 0 Hours.
Are you a junior, senior or graduate student planning on applying for a major national scholarship? This professional development 7- session course will help you prepare a compelling scholarship application. Students in the course will articulate their academic, career and social goals, identify the scholarship that best fits their strengths and interests, compose a strong personal statement and resume, develop an appropriate research proposal, and learn how to seek supportive letters of recommendation. Requirements for the course: only students with a GPA of 3.8+, a faculty recommendation, and commitment to attending all the sessions may enroll.

Foreign Exchange Programs Courses

ICX 100. Foreign Exchang Program. 3 Hours.

GBS-Grad Biomedical Sciences Courses

GBSC-Grad Biomedical Sciences Courses

GC-Genetic Counseling Courses

GCLH-Global Comm Ldshp Honors Courses

GCLH 101. Leadership I. 1-3 Hour.
This course will examine various leadership models and explore the characteristics, values, and beliefs of transformative leaders, past and present.

GCLH 105. Exploring Birmingham: Change and Power. 3 Hours.
Exploring Birmingham is a first-year GCL field experience which uses the City as Text pedagogy to engage students in a structured exploration of Birmingham and the social, political, economic and environmental forces which shape it. Through readings, films, discussions, lectures, and personal experiences in the city itself, students learn how to gather and analyze information, think critically about difficult and contentious issues, and integrate learning across disciplines.

GCLH 200. Thinking Like a Leader. 1-3 Hour.
This course will examine social change leadership models and explore the characteristics, values, and beliefs of such leaders past and present. It is a required course for all Global and Community Leadership Honors Program students.

GCLH 205. Leadership and Community/SL. 1-3 Hour.
The second required GCL field experience uses the service-learning pedagogy, providing students partnerships with selected community or local government agencies. Through readings, discussions and written reflections, students will explore the meaning of service and leadership as they work throughout the semester with their community partners. The goal of the course is to bring students to a deeper understanding of their role as leaders in service to those communities where they find themselves living and working, as well as those they wish to affect in positive ways.

Prerequisites: GCLH 105 [Min Grade: C]

GCLH 210. Thinking Locally and Globally. 1-3 Hour.
This course engages students in moderator development techniques needed to conduct community forums and exposes them to cross-cultural participatory decision-making through an immersion experience.

Prerequisites: GCLH 105 [Min Grade: C] and GCLH 205 [Min Grade: C]

GCLH 301. Leadership and Community Engagement. 1-3 Hour.
This course provides students with field experiences in partnership with community or local government agencies. Through readings, discussions and written reflections, students will explore the meaning of leadership and community engagement. Student placements are based on an issue of interest, thus allowing them to apply knowledge gained in both their major field and leadership courses. The goal of the course is to bring students to a deeper understanding of their role as leaders in service to the community and in applying knowledge for the benefit of Birmingham and beyond.

Prerequisites: GCLH 105 [Min Grade: C] and GCLH 205 [Min Grade: C] and GCLH 210 [Min Grade: C] and HAC 301 [Min Grade: C]
GER-Gerontology Courses

GER 101. Intro to Geography. 3 Hours.
Basic concepts and principles underlying major research traditions of geography, including earth science, culture-environment, and location and area analysis.

GER 109. Intro to Urban Geography. 3 Hours.
External and internal spatial processes of cities and city systems with emphasis on contemporary urban problems.

GER 121. World Regional Geography. 3 Hours.
Modern worlds great culture realms using basic ideas and concepts in field of geography.

GER 221. Geography of North America. 3 Hours.
Nature and character of places, especially as caused by relationship between human beings and environment.

GER 304. Looking at Earth: Maps Satellite Images and GIS. 3 Hours.
Introduction to maps as analytic tools in the social behavioral, and applied sciences. Students are provided training in the theory and methods of cartographic representation, aerial and satellite image analysis and geographic information system. Equal weight will be placed on first principles, practical training in computer methods, and case studies selected from different regions of the earth.

Prerequisites: GEO 101 [Min Grade: C]

GER 415. Political Economy/Race in Bham. 3 Hours.
Critical analysis of race in the political economy of Birmingham from the postbellum period to the era of Civil Rights.

GER 491. Environmental Policy. 3 Hours.
Institutions, processes, actors and key issues in environmental policy.

GER-Gerontology Courses

GER 280. Biology of Aging. 3 Hours.
Current understanding of aging, measurement of aging changes, theories of aging, and aging changes in various human systems.

Prerequisites: BY 123 [Min Grade: D]

GER 285. Introduction to Aging. 3 Hours.
Aging experience in modern world. Theories of aging, dimensions of aging, everyday concerns associated with aging, and future prospects of aging. Guest lectures by professionals in the field and other faculty in gerontology.

GER 309. Community Resources for Special Populations. 3 Hours.
Analysis of community-based programs for specific populations: older citizens, persons with HIV/AIDS, and the chronically ill.

GER 385. Social Psychology of Aging. 3 Hours.
Behavioral and structural relationships of aged population in America. Aging and interpersonal behavior, aging and social structure, and aging and social intervention.

Prerequisites: SOC 100 [Min Grade: D]

GER 397. Advanced Directed Readings in the Biology of Aging. 1-3 Hour.
Reading and independent study in selected areas under supervision of faculty sponsor. Gerontology topic required.

GER 398. Research Practicum in Psychology. 1-3 Hour.
Independent project, study, or reading supervised by member of faculty.

GER 403. Politics of Aging. 3 Hours.
Role of aging in political process. Political demands made by elderly, role of aging in political decision-making, and policy outputs relevant to older population.

GER 407. Pathology of Memory. 3 Hours.
Memory disorders from stand point of experimental psychology and neuropsychology. Amnesic syndrome, dementia, transient memory disorders, Alzheimer's disease, epidemiology and public health issues.

GER 411. Bio-Psycho-Social Aspects of Aging for the Health. 3 Hours.
Overview of current gerontological-geriatric information. Special needs of the elderly in receiving healthcare services.

GER 420. Anthropology of Old Age. 3 Hours.
Anthropology of Old Age: Cross-cultural perspective of status alternatives for elderly. Examination of differing roles, especially kinship, of elderly in Africa, Europe, Oceania, Middle East, and various ethnic groups in U.S.

GER 425. Psychology of Aging. 3 Hours.
Age changes in human cognition and behavior. Sensory processes, memory, intelligence, physiology and health, psychopathology, and life-span development and adjustment.

GER 438. Gerontology and Geriatrics Multidisciplinary Core. 3 Hours.

GER 455. Minority Aging. 3 Hours.
Cross-racial/ethnic exploration on national level of special problems of minority aged groups such as Latinos, Blacks, Chinese, Japanese, Koreans, Pacific-Asians, and American Indians. Family, church, health care, housing, adult education, retirement, income, and recreation.

Prerequisites: SOC 100 [Min Grade: D]

GER 456. Death and Dying. 3 Hours.
Death and dying from sociological and social psychological perspectives. Social significance of death as human existential phenomenon. Recent trends in definition, distribution, and handling of death and dying (e.g., interaction with dying persons, hospice movement, and funeral practices).

Prerequisites: SOC 100 [Min Grade: D]

GER 457. The Aging Family. 3 Hours.
Exploration of changes in family structure; status of aging in family in various societies; intra-and inter-generational relations; family-related role transitions.

Prerequisites: SOC 100 [Min Grade: D]

GER 459. Aging: Policy and Programs. 3 Hours.
Analysis of American social policies on aging and aged. Survey of related legislation, programs, and services. Special focus on evaluating effects of policies and programs for aged.

GER 462. Environment and Aging. 3 Hours.
Analysis of special consequences of residential environment for older people. Patterns of residence among elderly; fit between lifestyles and types of residence; consequences of living in segregated versus age-integrated neighborhoods, retirement homes, and nursing homes; examination of policy options.

GER 469. Sociology of Aging. 3 Hours.
How role and status changes with age in relation to major social institutions; adjustments people make to such changes. Aging population's impact on society and effect of society on aged.

GER 480. Women and Aging. 1 Hour.
Subjects of special interest, such as women and religion, women in civil rights movement, and theories of women's studies. Varies in content depending upon topic. Students may enroll under these numbers multiple times but topic may not be repeated.
GER 485. Age Stratification. 3 Hours.
Description of normal aging process; survey of individual troubles and group social problems associated with aged. Specific topics include health, economic status, work/reirement, family relations, housing/living environments, and transportation problems.

GER 488. Sociological Practice. 3 Hours.
Students will be involved in community research projects related to intergenerational relations, aging, medicine, and/or health. Placement in community organizations, e.g. schools, senior centers, to focus on research methods related to social policy.
Prerequisites: SOC 100 [Min Grade: D]

GER 490. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 491. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 498. Independent Study I. 1-3 Hour.
Community service projects under direction of faculty.

GER 499. Independent Study II. 1-3 Hour.
Community service projects under direction of faculty.

GHS-Global Health Studies Courses

GHS 301. Non-Communicable Disease. 3 Hours.
This course provides an introduction to selected key topics in chronic diseases burdened endured globally. We will address the following questions: How is it that people in some countries live twice as long as in others? Why is there a rising epidemic of NCDs such as cancer, heart and lung disease, obesity, and diabetes spreading globally? What are the burdens posed by these diseases? What steps are being taken to control it? What key tools are at our disposal? Who are the global actors and stakeholders addressing this global health epidemic? What is the link between globalization and the rise of NCDs?.

GHS 302. International Development. 3 Hours.
The course addresses the following questions: What is development? How might we conceive it? What does history teach us and how does knowledge of this history influence our conception and practice of development? How might we implement and achieve it? What elements of social, political, and economic life must we consider if we were to prioritize the allocation of limited resources?.

GHS 303. Food Security and Nutrition. 3 Hours.
The service-learning course will examine food security and nutrition as complex issues of sustainable human development. While learning about food security and nutrition in the classroom, students will gain further understanding of the topic through engaging with non-profit organizations in Birmingham that address food security and nutritional issues. Topics to be covered include issues of availability, access, and use of food in the domestic and global context, as well as current responses and potential solutions. The course will also focus on helping students develop a skill set for global citizenship that includes opportunities for advocacy, leadership, and critical thinking.

GHS 320. Global Health Service Learning. 3 Hours.
This course provides students with an opportunity to apply principles of interprofessional collaboration, community partnerships, and global health in the development and implementation of a project to address a global health problem in collaboration with a community partner. The global health problem may be addressed in collaboration with a partner at a local site, at a site within the U.S., or at an international site. Students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the ecological framework developing and implementing a plan to address a specific global health problem with a community partner.

GHS 401. Global Communicable Disease Challenges. 3 Hours.
This course is designed to introduce students to the major infectious diseases of public health importance globally. Since we cannot cover all infections in depth in the time allowed, we will highlight major categories of infections as well as focus on a few major infections that together cause the greatest morbidity and mortality in children or adults worldwide. The purpose of this course is to equip participants with up-to-date knowledge of resources on major infections of global importance, and their prevention and control strategies.
Prerequisites: [BY 101 [Min Grade: C] and BY 102 [Min Grade: C]] or BY 123 [Min Grade: C]

GHS 402. Global Health Cases. 3 Hours.
Global Health cases refer to instances of health problems that transcend national borders. Diseases are not constrained by borders. Similarly, problems and solutions to these cases are not unique to a particular race, region, socio-political system or even level of economic development. These cases also carry the dubious reputation of having a global political and economic impact. Yet a closer look at site specific successes can yield important lessons about how to tackle the challenges confronting similar cases in other sites.

GHS 404. Controversies in Global Health. 3 Hours.
This course adopts the strategy of examining selected controversies in global health. Poverty, international aid, education, governance, corporations, culture, gender, ethics, and a host of other macro level issues may impact on the creation and perpetuation of global health problems and on solutions to address these problems. For each controversy that is examined, these issues are considered from a global and or local perspective taking into account the idiosyncrasies of extenuating country specific context. Through the learning activities of this course, students should gain a better appreciation of why the challenges of global health often seem to defy our best efforts to solve them.
GHS 405. Comparative Health Systems. 3 Hours.
This course examines both global health issues and health systems from a comparative perspective. Like the U.S., many countries are struggling with economic, social, and legal issues facing their respective health care systems and are being overwhelmed by escalating costs. In the process, many countries are confronting tensions between improving quality, ensuring adequate access, and controlling costs. This course will begin by discussing global health themes, including: international health organizations, right to health, access to medicines, significant international health issues, women’s health, children’s health, and the environment and health. We then will define “health systems” and explore what they do and how they have evolved. We will then look at the configuration of health systems, examining different frameworks for healthcare delivery, financing, coverage, and allocation of resources. Next, we will focus on select health care systems around the globe and review the structure and functioning of their health systems. We will explore country-level debates on issues such as access and funding and will note how a country’s history has influenced the development of its health system. The teaching strategies for this class include readings, lectures, videos, group discussions, an exam, group presentations, and experienced guest speakers.

GHS 406. Maternal and Child Health in Africa and Asia. 3 Hours.
Despite significant advances in global health over the last fifty years, the burden of disease among the maternal and child health (MCH) population in certain areas of the world remains alarmingly high. While child mortality has declined over the last fifty years, maternal and neonatal mortality has seen relatively little improvement, especially in Sub Saharan Africa and South Asia, which bears a disproportionate share of the global burden of maternal and child health disease. Maternal health is especially critical due to the far ranging impact of a maternal death on the family, community, and society. Fortunately, high impact, cost-effective solutions exist to address these highly preventable maternal and child deaths. In this course we will discuss those successful MCH interventions and policies in addition to identifying different barriers and challenges to the implementation and scale up of MCH services in Africa and Asia.
Prerequisites: PUH 202 [Min Grade: C]

GHS 420. Field Studies: Jamaica. 3 Hours.
This course is designed for students interested in global health, whether from public health, medicine, nursing, or other allied graduate programs. Key details about this course include: 1) It is focused on community-based approaches to public health, this course emphasizes the integration and application of classroom, laboratory and field experiences in order to foster problem-solving skills for infectious disease ecology, surveillance and control in resource-constrained settings. 2) Lectures will be given online prior to the beginning of the course and briefings will be held in UWI facilities while in Jamaica. 3) The three primary field projects will be mosquito surveillance, STD/HIV care and prevention, and water & sanitation. 4) In Jamaica, students will attend briefings, acquire laboratory identification skills and use field techniques to generate and analyze data.

GHS 429. Intensive Global Health Training - SIFAT. 3 Hours.
Become a better Global Citizen by learning critical issues on Household Energy use in the developing world that affect health, environmental sustainability, gender equity, economics, and the development of millions of families and communities globally. Eight days, twelve hours a day.

GHS 430. Global Health Training, SIFAT. 6 Hours.
This two week intensive field training course will take place at SIFAT’s 176-acre international training campus in Lineville, AL. Students will attend didactic sessions and participate in hands-on activities and simulations. SIFAT trainers are experienced in international development and cross-cultural dynamics.

GHS 497. Special Topics in Global Health. 1-6 Hour.
Topics will vary from term to term. Course requirements may include lecture, fieldwork, readings, discussions, service learning, research, and internships. Course may be conducted on- or off-campus.

GHS 498. Directed Study in Global Health. 1-6 Hour.
This course is open to junior and senior level undergraduate students to conduct research or explore an approved topic of interest within global health under the supervision of a faculty mentor. This is an individualized course, and students will have individual end of term goals, typically a comprehensive paper and presentation.

GL-Geology Courses
GL 201. Invertebrate Paleontology. 4 Hours.

GN-German Courses
GN 101. Introductory German I. 4 Hours.
Essentials of language needed for proficient communication. Includes basic exercises in listening comprehension, speaking, writing and reading. Conducted in German. (CORE AREA II).

GN 102. Introductory German II. 4 Hours.
Continuation of GN 101. Essentials of language and culture needed for communication. Includes listening comprehension, speaking, reading and writing. Conducted in German. (CORE AREA II).

GN 190. Study Abroad. 1-6 Hour.
Approved novice-level program in German-speaking country. Course of study will vary according to array of approved offerings and student interest. Permission of the department chair and the Study Away director required.

GN 201. Intermediate German I. 3 Hours.
Continued development of grammar, composition, reading, writing, listening comprehension, speaking, and cultural proficiency. Conducted in German. (Core Area II).

GN 202. Intermediate German II. 3 Hours.
Continuation of GN 201. Conducted in German.

GN 203. German Culture and Civilization. 3 Hours.
Introduction to historical and contemporary aspects of German culture through readings and other media. Emphasizes continued development of oral and written skills. Conducted in German.

GN 204. Readings in German Literature. 3 Hours.
Selections from representative modern authors. Emphasis on oral and written practice. Conducted in German.

GN 205. German for the Professions. 3 Hours.
Intensive conversation course designed to acquaint students with more extensive vocabulary of German-speaking professionals. Students also learn about the cultural context in which German is used in various professions. Conducted in German.

GN 206. German for Technology and Media. 3 Hours.
Practice in the use of technology and media in German Studies. Conducted in German.

GN 210. German Culture and Civilization II. 3 Hours.
Highlights of cultural history from the Middle Ages to the present.

GN 290. Study Abroad. 1-6 Hour.
Approved program in a German-speaking country.
GN 299. Special Readings in German. 3 Hours.
This is an individualized course of directed readings and activities for intermediate students of German. Course design is determined by the instructor and the student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of German language and culture. Intermediate proficiency in reading, writing, listening and speaking German is the targeted outcome.
Prerequisites: GN 201 [Min Grade: D]

GN 390. Study Abroad, 1-6 Hour.
Approved program in a German-speaking country.

GN 399. Directed Readings in German. 3 Hours.
Special Readings in German.

GN 480. Special Topics in German Literature. 3 Hours.
Emphasis on particular authors, genres, or topics. May be repeated for credit.

GN 490. Study Abroad. 1-6 Hour.
Approved program in a German-speaking country.

GN 499. Directed Studies. 3 Hours.
Directed studies.

GRD-Graduate School Courses

Gen Professional Development Courses

GEN 410. Scholarship Preparation. 0 Hours.
Are you a junior, senior or graduate student planning on applying for a major national scholarship? This professional development 7- session course will help you prepare a compelling scholarship application. Students in the course will articulate their academic, career and social goals, identify the scholarship that best fits their strengths and interests, compose a strong personal statement and resumé, develop an appropriate research proposal, and learn how to seek supportive letters of recommendation. Requirements for the course: only students with a GPA of 3.8+, a faculty recommendation, and commitment to attending all the sessions may enroll.

General Elective Courses

ELEC 101. General Elective. 9 Hours.
General Elective - 100 level.

ELEC 201. General Elective. 9 Hours.
General Elective - 200 level.

ELEC 301. General Elective. 9 Hours.
General Elective - 300 level.

ELEC 401. General Elective. 9 Hours.
General Elective - 400 level.

HA-Health Administration Courses

HA 401. Introduction to Hospital and Health Organizations. 3-4 Hours.

HA 402. Introduction to Leadership in Health Organizations. 3 Hours.

HA 403. Introduction to Interpersonal Behavior in Health Organizations. 3 Hours.

HA 404. Introduction to Intragroup Development in Health Organizations. 3 Hours.

HAC-Honors Academy Courses

HAC 101. Honors College Leadership. 1-3 Hour.
This course is the first course in the three-course Honors College leadership series. Specifically, this course is an introduction to the study of leadership; including the study of traits and characteristics of leaders, values & ethics used in leadership, the situational nature of leadership, the importance of Emotional Intelligence in leadership, and the study of leadership as a team activity.
Prerequisites: HAC 101 [Min Grade: C]

HAC 201. Leadership Skills. 1-3 Hour.
This course is the second course in the three-course Honors College leadership series. HAC 101 focused on leadership principles and individual characteristics that contribute to a leader’s style. HAC 201 will focus on planning the project to be carried out in HAC 301 and on related leadership skills such as communication methods, professionalism and the identification of measureable outcomes.
Prerequisites: HAC 101 [Min Grade: C]

HAC 301. Prime Time Leadership. 1-3 Hour.
This course is the third and final in the three-course Honors College leadership series. HAC 101 focused on leadership principles and individual characteristics that contribute to a leader’s style. HAC 201 focused on project planning and related leadership skills. HAC 301 provides students with an opportunity to lead an actual project using the principles and skills introduced in HAC 101 and HAC 201.
Prerequisites: HAC 201 [Min Grade: C]

HAC 396. Independent Study: Service Learning. 3 Hours.
Students will propose and complete a service learning project under the supervision of a faculty member. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HAC 397. Independent Academic Honors Studies. 3 Hours.
Students will propose and complete an honors-level academic project under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HAC 398. Undergraduate Research Studies. 3 Hours.
Students will propose and conduct an undergraduate research project under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HAC 399. Internship or Co-op Studies. 3 Hours.
Students will propose and complete an internship or co-op experience under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. Instructor approval required. May be repeated for credit.

HAC 401. Advanced Leadership Studies. 1-3 Hour.
This course is an extension of the Honors College leadership series. HAC 401 provides student’s the opportunity to propose and complete an advanced leadership project or an academic study in the area of leadership.
Prerequisites: HAC 301 [Min Grade: C]

HAI-Hlth Admin Intl Tack Courses

HB-Health Behavior Courses
HC-Honors College Courses

HC 101. Honors College Leadership. 1-3 Hour.
This course is the first course in the three-course Honors College leadership series. Specifically, this course is an introduction to the study of leadership; including the study of traits and characteristics of leaders, values & ethics used in leadership, the situational nature of leadership, the importance of Emotional Intelligence in leadership, and the study of leadership as a team activity.

HC 110. Honors Freshman Seminar I: Special Topics. 1-3 Hour.
Freshman Year Experience (FYE) course for students in the Honors College. This class will prepare students for a successful college career in any field of study. Course varies in content based on special topics of interest to incoming students.

HC 111. Honors Freshman Seminar II: Special Topics. 1-3 Hour.
Building on the foundation developed in HC 101, this course will focus on content based on special topics of interest to Honors College students.

HC 201. Leadership Skills. 1-3 Hour.
This course is the second course in the three-course Honors College leadership series. HC 101 focused on leadership principles and individual characteristics that contribute to a leader’s style. HC 201 will focus on planning the project to be carried out in HC 301 and on related leadership skills such as communication methods, professionalism and the identification of measurable outcomes.

Prerequisites: HC 101 [Min Grade: C]

HC 300. Contemporary Social Issues, Leadership and Scholarship. 3 Hours.
Analysis of classical and modern foundations and principles of leadership and a survey of contemporary social issues. Practice in scholarship essay writing, interviewing, and critical thinking. Intended for national and international scholarship and fellowship applicants. Enrollment limited to sophomores and juniors.

HC 301. Prime Time Leadership. 1-3 Hour.
This course is the third and final in the three-course Honors College leadership series. HC 101 focused on leadership principles and individual characteristics that contribute to a leader’s style. HC 201 focused on project planning and related leadership skills. HC 301 provides students with an opportunity to lead an actual project using the principles and skills introduced in HC 101 and HC 201.

Prerequisites: HC 201 [Min Grade: C]

HC 396. Independent Study: Service Learning. 3 Hours.
Students will propose and complete a service learning project under the supervision of a faculty member. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 397. Independent Academic Honors Studies. 3 Hours.
Students will propose and complete an honors-level academic project under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 398. Undergraduate Research Studies. 3 Hours.
Students will propose and conduct an undergraduate research project under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 399. Internships or Co-op Studies. 3 Hours.
Students will propose and complete an internship or co-op experience under the supervision of a faculty mentor. Must be an Honors College student in good standing. Instructor approval required. May be repeated for credit.

HC 401. Advanced Leadership Studies. 1-3 Hour.
Prerequisites: HC 301 [Min Grade: C]

HCM-Health Care Management Courses

HCM 302. Principles of Management in Health Care. 3 Hours.
Basic management concepts in context of health care organizations; oral and written communication; planning and goal setting; decision-making and problem solving; personnel selection; performance appraisal.

HCM 305. Effective Communication and Professionalism in Health Care. 2 Hours.
Professional traits, behaviors, skills, and attitudes needed to perform in a professional, ethical, and competent manner in the health care environment.

HCM 318. Law for Health Care Professionals. 3 Hours.
Principles of law and U.S. legal system as applied in health care organizations; documentation, privacy, security, and release of health information; liability, consent, and malpractice.

HCM 330. Health Care Systems. 3 Hours.
Overview of U.S. health care system; implications of environmental trends and health care policy on health care organizations; introduction to financing of health care.

HCM 360. Statistics for Managers. 3 Hours.
Basic descriptive and inferential statistics as applied in managerial processes; computer-based graphic analysis of data; use of computer-based statistical software; application of statistical process control tools. Quantitative Literacy is a significant component of this course (QEP).

Prerequisites: MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C]

HCM 375. Managerial Epidemiology. 3 Hours.
Methods and applications of managerial epidemiology; measurement and epidemiological tools that inform health care management decisions.

Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 401. Organizational Studies in Health Care. 4 Hours.
Behavioral science concepts including leadership, managing change, negotiating and conflict resolution, team building, organizational assessment, marketing, and entrepreneurship in the context of health care organizations.

Prerequisites: (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]) and AHS 320 [Min Grade: C]

HCM 402. Economics for Healthcare Managers. 3 Hours.
Principles of economics of the health care system on the basis of incentives, risk management, asymmetrical information, and moral hazards; practical application of economic principles, including supply and demand, market structure and forecasting.

Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]
HCM 403. Operations Management in Health Care Organizations. 4 Hours.
Operational functions of mid-level managers in health care organizations including work design and re-engineering; systems theory; development, planning, and analysis; ergonomics and work environment; quality improvement techniques.
Prerequisites: (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]) and (AHS 360 [Min Grade: C] or HCM 360 [Min Grade: C]) or MA 180 [Min Grade: C] or PY 214 [Min Grade: C] or PY 216 [Min Grade: C] or QM 214 [Min Grade: C]

HCM 405. Human Resource Management in Health Care Organizations. 4 Hours.
Managerial activities in health care organizations related to job descriptions, recruiting, interviewing, hiring, firing, orientation, benefits, appraisal, discipline, and developing clinical and non-clinical personnel.
Prerequisites: (HIM 415 [Min Grade: C] or AHS 320 [Min Grade: C]) and (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C])

HCM 407. Strategic Management in Health Care Organizations. 3 Hours.
Overview of strategic management process; strategic planning in health care organizations from perspective of mid-level manager; emphasis on operational level implementation and control.
Prerequisites: AHS 403 [Min Grade: C] or HCM 403 [Min Grade: C]

HCM 411. Biological, Psychological, and Sociological Issues of Aging. 3 Hours.
Overview of current gerontological-geriatric information; special needs of the elderly in receiving health care services.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 415. Ethics for Health Care Professionals. 3 Hours.
Overview of major ethical theories; ethical decision making models; application to patients rights, confidentiality, informed consent, professional relationships, and allocation of scarce resources. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: (AHS 318 [Min Grade: C] or HCM 318 [Min Grade: C]) and (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C])

HCM 416. Financial Management in Health Care Organizations. 3 Hours.
Overview of financial management functions at the department level; budgeting and cost analysis for department-level operations and capital expenditures. Fulfills the QEP requirements in Quantitative Literacy (QL).
Prerequisites: (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]) and (AC 200 [Min Grade: C] and AC 201 [Min Grade: C]) or BUS 310 [Min Grade: C]

HCM 435. Clinical and Administrative Information Systems. 3 Hours.
Overview of information systems and applications in health care organization; issues and challenges in system design and implementation.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 450. Quality Management in Health Care. 3 Hours.
Concepts of monitoring and evaluating the quality and appropriateness of patient care and services provided in health care organizations; overview of regulatory guidelines and industry standards; current issues in quality measurement and outcomes.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 460. Research Methods. 3 Hours.
Prerequisites: (AHS 360 [Min Grade: C] or HCM 360 [Min Grade: C]) or MA 180 [Min Grade: C] or QM 214 [Min Grade: C] or PY 214 [Min Grade: C] or PY 216 [Min Grade: C]

HCM 480. Health Care Policy and Reform. 3 Hours.
Identification and discussion of health policy issues facing the U.S. and economic implications of health policy and health care reforms over time.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 481. Health Care Management Internship. 3.6 Hours.
Capstone course places students in selected healthcare setting supervised by experienced preceptors. Students are exposed to day-to-day managerial functions and participate in organizational projects. Students draw upon, synthesize, and apply classroom learning to health care organization environments. Activities focus on the development of problem solutions, effective communications and research skills. Projects focus on Service Learning and students also explore the culture, ethical issues and community impact of the organization.
Prerequisites: (AHS 401 [Min Grade: C] or HCM 401 [Min Grade: C]) and (AHS 403 [Min Grade: C] or HCM 403 [Min Grade: C]) and (AHS 405 [Min Grade: C] or HCM 405 [Min Grade: C]) and (AHS 407 [Min Grade: C] or HCM 407 [Min Grade: C]) and (AHS 480 [Min Grade: C] or HCM 480 [Min Grade: C])

HCO-Health Care Organization Courses

HCO 305. Consequences of World Disaster. 3 Hours.
This course examines what makes an event a disaster and how that disaster may be measured in terms of its effects on population health, infrastructure, and economy. In addition, the course explores how disasters may be exacerbated by geography, population, and poverty. Several different classifications of selected world disasters case studies will be discussed in terms of impact, preparation, response, and consequences. Finally, hazard analysis, vulnerability analysis, risk assessment, recovery systems, and policy responses will be discussed. Student projects will explore and predict location, type, and possible prevention/remediation recommendation.
Prerequisites: HCO 305 [Min Grade: C]

HCO 306. Public Health Preparedness and Response Capabilities. 3 Hours.
This course provides an introduction to public health preparedness capabilities used in the United States. This course will also provide background on federal funding for these programs. We will examine the following questions: After a major disaster or public health emergency, what public health services are in place to address the needs of the population? For example, in case of a public health emergency, how would a health department distribute vaccines, medicine, and antidotes to a population? Or, how does a public health department respond in case of a mass casualty incident? How are these services procured after a disaster? Who delivers these services? How do public health departments track patients and resources during a disaster?.
Prerequisites: HCO 305 [Min Grade: C]
HCO 340. Disaster and Emergency Management. 3 Hours.
This course will provide a concerted look into the realm of disaster and emergency management and public health emergency preparedness. Discussions in this course will concentrate on how disaster and emergency management is changing and how public health emergency preparedness has evolved since the beginning of the millennium. Pertinent background information related to federal, state, and local activities to plan, prepare for, and mitigate potential threats will be studied along with activities around response and recovery. An analysis on federal roles in preparedness, response, and recovery risk assessment and hazard vulnerability analysis; and review of elements of emergency response plans will be included. This course will culminate with a look at the roles and responsibilities of the public health systems in preparing for and responding to both natural and man-made disasters. This course will include a service learning project in which students will be provided with the opportunity to apply concepts learned in class to real-life situations in the community.

HCO 341. Public Health Preparedness and Emergency Management: Law, Policy, and Planning. 3 Hours.
The course will introduce students to the legal aspects of public health preparedness and emergency management for both hostile attacks and natural disasters. The threats posed by bioterrorism (e.g., anthrax, smallpox), naturally occurring pandemics (e.g., influenza), bombings, and natural disasters (e.g., fires, hurricanes, tornadoes, floods, and earthquakes) will be examined. Prerequisites: HCO 305 [Min Grade: C]

HCO 405. Issues in Emergency Preparedness: Ethics and Vulnerable Populations. 3 Hours.
The initial section of this course will introduce the topic of ethics in emergency preparedness and will specifically concentrate on issues relevant to vulnerable/at-risk/special needs populations during emergencies and disasters. Discussions will center on how these populations are defined, what are the specific functional needs of the populations and particular tasks that need to be incorporated into emergency planning for these groups.

HCO 406. Emergency Training, Exercises. 3 Hours.
This course will provide participants with an understanding of Public Health Emergency Preparedness (PHEP), exercise development, and evaluation. During this course you will learn how to identify threats within your community, determine what capabilities are most needed to prepare for and meet these threats, and how to develop and evaluate exercises to test knowledge, skills and abilities.

HCO 498. Special Topics in Health Care Organization and Policy. 1-6 Hour.
This course will cover policy, advocacy and service issues that arise from a public health prospective. This course will be taught under the direction of faculty in the department. Topics will vary from term to term.

HE-Health Education Courses

HE 140. First Aid. 3 Hours.
Knowledge and skills needed to perform basic first aid and CPR procedures.

HE 141. Personal Health. 3 Hours.
Knowledge and skills that support a healthy lifestyle. Stress management, cardiovascular health, nutrition, and fitness.

HE 222. Concepts of Health and Fitness. 3 Hours.
Fitness and related health concepts. Fitness assessment, variety of fitness-related activities, and development of personal fitness program. Nutrition and cardiovascular health.

HE 223. Introduction to Epidemiology and Disease Impact. 3 Hours.
Disease etiology, incidence, prevalence, prevention, and control. Impact of various diseases on society.
Prerequisites: HE 141 [Min Grade: C]

HE 301. Teaching Health in Elementary School. 2 Hours.
Techniques, rationale, and resources for implementing health education into school curriculum. Not for health education or physical education majors.

HE 342. Introduction to Health Education. 3 Hours.
Foundations of health education and health promotion. Key concepts, definitions, models, theories, and skills.
Prerequisites: HE 141 [Min Grade: C]

HE 343. Theory and Determinants of Health Behavior. 3 Hours.
Application of health education theories and methods to assist individuals and groups with planned behavior change. Basic steps of program planning and implementation. Multiple assignments to reinforce ethics and civic responsibility in the profession. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: HE 141 [Min Grade: C] (Can be taken Concurrently) and HE 342 [Min Grade: C] (Can be taken Concurrently) and HE 223 [Min Grade: C] (Can be taken Concurrently)

HE 402. Mental Health and Stress Management. 3 Hours.
Stress process and its relationship to individual wellness and total health. Physical and psychological effects of stressors and individual appraisals using theoretical models and practical examples. How to identify and manage stress. Effective skills to reduce deleterious effects of stressful events.

HE 404. Global Trends in Health. 3 Hours.
The goal of this course is to introduce students to the many and varied health education priorities around the world. New and ongoing health issues will be discussed. The contributions of health educators, both actual and potential, will be explored. Additionally, the course will look at how health educators can effectively work with other health professionals to reduce the risk of health threats on the personal, community, national and international levels.

HE 408. Drug Use and Abuse. 3 Hours.
Concept, manifestation, and causes of addiction. Major drug classifications and their effects. Potential of drug education as preventative mechanism.

HE 421. Health Communication. 3 Hours.
Skills appropriate for selected health problems, problem solving, and referrals. Skills to enhance communication with clients, peers, and community members at large. Health-related theories, communication theories, and marketing strategies.
Prerequisites: HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or HE 222 [Min Grade: C] and HE 342 [Min Grade: C]

HE 423. Human Sexuality. 3 Hours.
Biological, sociological, psychological, and ethical aspects of human sexuality. Biological overview, behavioral variations, research in sexuality, social issues, sexual decision making, sexuality of special populations, and sexual complications.
HE 431 . 3 Hours.
Content and process planning, implementing, and evaluating programs in health education and health promotion. Sociological, psychological, and epidemiological foundations of health promotion programs. Development of practical skills for school, occupational, clinical, and community settings. A comprehensive program planning assessment will reinforce quantitative literacy in the profession. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or HE 222 [Min Grade: C]) and HE 342 [Min Grade: C] and HE 343 [Min Grade: C]

HE 432. Administration of Health Education Programs. 3 Hours.
Administrative theory and practice related to health and fitness programs in various settings. Management issues, professional issues, and personal professionalism. Writing is a significant component of this course (QEP).
Prerequisites: HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or HE 222 [Min Grade: C] and HE 342 [Min Grade: C] and HE 343 [Min Grade: C](Can be taken Concurrently)

HE 452. Evaluation and Grantsmanship. 3 Hours.
Evaluation of health education programs and curricula. Current thought and practice related to evaluation and the grant writing process.
Prerequisites: HE 342 [Min Grade: C] and HE 343 [Min Grade: C]

HE 489. Health Education Methods. 3 Hours.
Methods and materials; media used in professional health education practice. Nature of effective helping relationships. Selection, development, and critique resources for health instruction; Development of lesson plans. Barriers and ethical issues related to planned health behavior change.
Prerequisites: HE 342 [Min Grade: C] and HE 343 [Min Grade: C]

HE 490. Special Projects in Health Education/SL. 1-6 Hour.
Exploration of health-related topic via professional literature or research project.

HE 491. Problems in Health Education. 1-6 Hour.
Controversial topics in health education or topics identified as state or national priority.

HE 497. Secondary Health Education Student Teaching. 3.9 Hours.
Capstone experience including observation and teaching of health education in area school.

HE 499. Health Education Internship. 3-9 Hours.
Supervised work experience in a pre-approved community agency/organization.

HI-Health Informatics Courses

HIM-Health Information Mgmt Courses

HIM 318. Survey of Human Anatomy and Physiology for Coding. 3 Hours.
Survey course on the structure and function of the body. A systems approach emphasizing physiology of the human body.
Prerequisites: AHS 350 [Min Grade: C]

HIM 405. Clinical Information I. 3 Hours.
Study of diseases with emphasis on medical terminology relevant to clinical documentation in inpatient and outpatient health care settings. Course content includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology for cardiovascular, respiratory, blood, lymphatic, immune, musculoskeletal, integumentary, and endocrine body systems and sense organs, oncology and psychiatry.
Prerequisites: BY 115 [Min Grade: C] and BY 116 [Min Grade: C] or HIM 318 [Min Grade: C]

HIM 410. Clinical Information II. 3 Hours.
Study of diseases with emphasis on medical terminology relevant to clinical documentation in inpatient and outpatient health care settings. Course content includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology for cardiovascular, respiratory, blood, lymphatic, immune, musculoskeletal, integumentary, and endocrine body systems and sense organs, oncology and psychiatry. An emphasis will be put on writing a professional paper on a clinical topic. Writing is a significant component of this course (QEP).

HIM 415. Introduction to Health Information Management. 3 Hours.
Study of HIM profession and employment opportunities; functions of a HIM department and ancillary hospital departments; HIM professional ethics; HIM professional associations; applications of principles of management to the efficient administration of health information services; numbering, filing and preservation of records; master patient index and the role of The Joint Commission and other accrediting agencies. An emphasis is placed on the student's ability to apply HIM professional ethics in real world case scenarios. Ethics and Civic Responsibility are significant components of this course (QEP).

HIM 416. Health Data Concepts. 3 Hours.
Study of the origin, uses, content and format of health care data across the continuum of health care including both paper and electronic health records; accreditation, certification and licensures standards applicable to health records and documentation requirement in various healthcare facilities relative to the Joint Commission on Accreditation of Healthcare Organizations, Center for Medicare and Medicaid Services, American Osteopathic Association and Alabama requirements.
Prerequisites: HIM 415 [Min Grade: C](Can be taken Concurrently)

HIM 417. Pathology for Coders. 3 Hours.
Study of disease with emphasis on the pathology relevant to clinical documentation in health care settings: includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology, for all body systems.
Prerequisites: AHS 350 [Min Grade: C] and (HIM 318 [Min Grade: C] or BY 115 [Min Grade: C] or BY 116 [Min Grade: C])

HIM 418. Documentation Standards for Health Data. 3 Hours.
Origin, uses, content, and format of data across the continuum of health care, including paper and electronic health records; primary and secondary data sources; documentation best practices; accreditation standards and regulations applicable to documentation requirements.
Prerequisites: AHS 350 [Min Grade: C] and AHS 318 [Min Grade: C]

HIM 425. Epidemiology and Applied Statistics in Health Care Organizations. 3 Hours.
Concepts of epidemiology: basic biostatistics; vital statistics; data collection and data presentation; study designs. Quantitative Literacy is a significant component of this course (QEP).
HIM 430. Clinical I. 1 Hour.
Supervised projects/assignments at approved professional practice sites where student applies theory from HIM courses. Projects/assignments include: filing and retrieval, registration processes, assembly/analysis of paper/electronic records; confidentiality and release of medical information; security, storage and retention of health records; HIM department systems analysis and workflow; HIM department organization and functions; and paper/electronic forms design.

HIM 431. Clinical II. 1 Hour.
Supervised projects/assignments at approved professional practice sites where student applies theory from HIM courses. Projects/assignments include: identification of statistical reporting and data requirements; regulatory, compliance and quality responsibilities/functions; case management or utilization management functions, ICD-9-CM/CPT-4 coding; case mix management; revenue cycle; and HIM department productivity.

HIM 440. ICD-10-CM Coding. 4 Hours.
Diagnostic and procedural coding, including the principles of ICD-10-CM coding and UHDDS guidelines.
Prerequisites: HIM 318 [Min Grade: C], HIM 405 [Min Grade: C] and BY 115 [Min Grade: C] and BY 116 [Min Grade: C] or HIM 318 [Min Grade: C]

HIM 441. Diagnostic Coding for Health Care Organizations. 3 Hours.
Study of diagnostic and procedural coding including the principles of ICD-9-CM or ICD-10CM/PCS and UHDDS guidelines; assignment and sequencing of principal diagnosis and procedure.
Prerequisites: AHS 350 [Min Grade: C] and HIM 318 [Min Grade: C] and HIM 417 [Min Grade: C] and HIM 418 [Min Grade: C](Can be taken Concurrently)

HIM 443. Information Resource Management. 3 Hours.
Overview of information management functions related to obtaining, managing, and using information to improve patient outcomes and health care facility performance in patient care, governance, management, and support processes.

HIM 450. Clinical Research. 3 Hours.
Study of design concepts and information systems to support clinical and health services research and investigation, e.g. drug companies, genetic engineering firms, academic institutions and individual researchers; major national research policy-making bodies, their research protocols and their management of information. Students will perform statistical analysis and display of data and results and will critically evaluate published reports of clinical and epidemiological studies.
Prerequisites: HIM 425 [Min Grade: C]

HIM 455. Reimbursement and Regulatory Requirements for HIM. 3 Hours.
Financial aspects of healthcare involving prospective reimbursement; managing the coding function in healthcare organization; quality assurance of coded data; DRGs and other case mix systems; security issues under HIPAA.
Prerequisites: HIM 440 [Min Grade: C] and HIM 460 [Min Grade: C]

HIM 458. Clinical Terminology and Vocabulary. 2 Hours.
Overview of clinical terminologies, vocabularies and classification systems including purposes, organization and structures, mappings in the electronic health record (EHR), and future roles in eHIM.
Prerequisites: HIM 440 [Min Grade: C]

HIM 460. Coding/Classification Systems. 3 Hours.
Ambulatory care coding CPT-4, HCPCS, IFCP for outpatient facilities and physician offices and secondary nomenclatures and classification schemes, including: Systematized nomenclature of Human and Veterinary Medicine (SNOMED); International Classification of Disease-Oncology; (ICD-O); Diagnostic and Statistical Manual of Mental Disorders (DMS IV); and CMS' Coding and reporting requirements for ambulatory care. An emphasis will be placed on ethical reasoning and contemporary issues related to the application of accurate and correct coding by the HIM Professional. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: HIM 405 [Min Grade: C]

HIM 465. Clinical Evaluation and Outcomes Research. 3 Hours.
Review of current approaches to measuring, evaluating, and reporting clinical outcomes in health care organizations.

HIM 470. Data Management. 3 Hours.
Data collection for enterprise; reportable and specialized databases; data mining of healthcare data; data information; file structures; data security; and data retrieval.
Prerequisites: AHS 435 [Min Grade: C]

HIM 475. Electronic Health Records. 3 Hours.
Strategies for developing and implementing the framework and conceptual model of the electronic health record for enterprise-wide data collection, archiving, aggregation and reporting, and data security of health information for patient care.
Prerequisites: AHS 318 [Min Grade: C]

HIM 480. Internship. 3-6 Hours.
Focused internship in approved health care facility; emphasis on evaluation of managerial organization of facility and Health Information Management Department (HIM), and management responsibilities of director of HIM services. Must have completed all didactic HIM courses.

HIM 481. Issues in Health Information Management Seminar. 3 Hours.
A seminar that emphasizes management skills/tools used in HIM practice and highlights current developments in HIM. Emphasis on writing documents (e.g. memo, policy, team charter, teaching plan); emphasis on calculating productivity, FTEs and costs for alternative solutions to reduce backlog in a designated function; and emphasis on the HIM professional’s role in advocacy for current national issues in HIM practice, such as privacy and security of health information and the personal health record.

HMG-Hughes Med Grad Fellowship Courses

HON-Honors Courses

HON 101. Interdisciplinary: English. 3 Hours.
Process and final product of expository, argumentative, and analytical essays in a variety of disciplines. Research and documentation required on most essays. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 102. Interdisciplinary: Chemistry. 3 Hours.
Fundamental facts, principles, theory, and applications of chemistry. Qualitative in nature; for non-science majors with no previous background in chemistry. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 103. Interdisciplinary: Psychology. 3 Hours.
Application of scientific method to behavior. Takes an interdisciplinary approach in exploring areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 104. Interdisciplinary: Theology. 3 Hours.
Introduction to foundations of the major religions. An exploration of religion, its nature, warrant, and significance. God, evil, religious experience, faith, and reason. Takes an interdisciplinary approach to religion and religious practices. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 105. Interdisciplinary: Science. 3 Hours.
Survey of scientific methodologies in biology, chemistry and physics. Recent advances and topics in modern biology, chemistry examined from an interdisciplinary approach. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 106. Interdisciplinary: Anthropology. 3 Hours.
An interdisciplinary exploration of culture; similarities and differences among human groups. Interpretation of human fossil record; archaeological methods and theory used to reconstruct and interpret past. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 107. Interdisciplinary: Urban Studies. 3 Hours.
An interdisciplinary study of social and demographic characteristics of cities, structures of urban governments, intergovernmental relations, lifestyles, and electoral politics in metropolitan environments. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 108. Interdisciplinary: Music. 3 Hours.
Basic elements of music and music notation: rhythm, scales, keys, and chords. Physical and perceptual aspects of musical tones and numerical basis of scales, tuning, and musical instrument design. A variety of music styles are studied in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 109. Interdisciplinary: Business. 3 Hours.
Introduction to principles of business, international business, business ethics, and trading blocks. Not intended for Business majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 110. Participation in Honors. 1 Hour.
Student must participate in at least eight special events sponsored by the University Honors Program including special lectures, visiting speakers, workshops and field trips. Permission of instructor. Pass/Fail.

HON 111. Interdisciplinary: Philosophy. 3 Hours.
Introductory survey of philosophy, its nature, methods, and problems explored in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 112. Community Service. 1 Hour.
Student must have signed a contract and completed a minimum 20 hours community service in a designated, extended project and have attended meetings to discuss general issues related to community service. Permission of instructor. Pass/Fail.

HON 151. Interdisciplinary: Art and Art History. 3 Hours.
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of art materials and techniques. Not for Art majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 152. Interdisciplinary: Psychiatry and Behavioral Neurobiology. 3 Hours.
Introduction to major psychiatric disorders and knowledge gained about brain-behavior relationships from behavioral neurobiology. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 153. Interdisciplinary: Biology. 3 Hours.
Selected topics in contemporary biology for non-majors. Animal form and function, behavior, ecology, and evolution. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 154. Interdisciplinary: Literature. 3 Hours.
Short stories, novellas, poems, and plays with an emphasis on the techniques of each genre. American, British and Irish, and world literature from a variety of historical periods. Emphasis on writing and literary analysis while taking an interdisciplinary approach. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 155. Interdisciplinary: Physics. 3 Hours.
Introductory survey of physics. Matter, energy, light. Selective topics in modern physics. Basic laws of physics, modern theories of matter and the universe, cosmic history and evolution. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 156. Interdisciplinary: Law and Ethics. 3 Hours.
Interdisciplinary discussion of the nature and function of law and legal institutions. Ethics and morality in modern society. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 157. Interdisciplinary: Cognitive Science. 3 Hours.
Introduction to major issues in cognitive science drawing from cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 158. Interdisciplinary: Economics. 3 Hours.
Economic principles, economic analysis, trading blocks, examined in an interdisciplinary context. Not intended for Business majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 159. Interdisciplinary: Theatre. 3 Hours.
Understanding the theatre experience through class lectures, reading and writing assignments, demonstrations, and discussions. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 160. Interdisciplinary: Government. 3 Hours.
An introduction to the institutions and processes of American government in an interdisciplinary context. Exposure to political cultures and systems around the world. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 161. Interdisciplinary: History. 3 Hours.
An exploration of significant world historical developments from the beginning of the early modern era (approximately 1600 CE) to the present in an interdisciplinary context. Intellectual movements, political revolutions and nationalism, industrialization, cultural changes, and the relationship between Western and non-Western societies. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 162. Interdisciplinary: Mathematics. 3 Hours.
Mathematics is studied in an interdisciplinary context focusing on the development of quantitative reasoning skills, quantitative literacy, and deductive inference. Topics incorporate pre-calculus algebra, pre-calculus trigonometry, probability, descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 163. Interdisciplinary: Justice Sciences. 3 Hours.
Introduction to the criminal justice system. Examination of crime and delinquency in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 164. Interdisciplinary: Sociology. 3 Hours.
An interdisciplinary approach to human social life, its forms and consequences for everyday life. An exploration of social inequalities and differentiation by race, ethnicity, class, and gender. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 165. Interdisciplinary: Communications. 3 Hours.
Perspectives on the history of newspapers, books, magazines, radio, television, cinema, recording industry, and the Internet examined in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 166. Interdisciplinary: Film. 3 Hours.
An interdisciplinary analysis of film, and understanding of film as art form. Examination of editing, directing, and other aspects of film production. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 167. Interdisciplinary: Computer Science. 3 Hours.
Introduction to features of modern computing in an interdisciplinary context. Fundamentals of hardware, software, human-computer interfaces, networking, multi-media, databases, privacy and digital security. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 168. Interdisciplinary: Foreign Languages & Literatures. 3 Hours.
An interdisciplinary approach to the scientific study of language. Principles underlying phonology, morphology, syntax and semantics. Relationships between language and culture, and language and mind. Psycholinguistics. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 169. Interdisciplinary: Education. 3 Hours.
Interdisciplinary perspectives on current issues and problems in education, the role and value of diversity in education, and modern trends in effective pedagogy. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 170. Interdisciplinary: Engineering. 3 Hours.
An interdisciplinary introduction to profession of engineering, engineering design, and problem solving. Not for engineering majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 171. Interdisciplinary: Psychology. 3 Hours.
Introduction to major issues in cognitive science drawing from cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 172. Interdisciplinary: Health Professions. 3 Hours.
An interdisciplinary introduction to current issues in health information management, health care management, medical technology, nuclear medicine technology, and respiratory therapy. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 176. Interdisciplinary: Nursing. 3 Hours.
An interdisciplinary approach to the practice of professional nursing as an evidence-based, goal-directed activity for assisting patients to achieve optimal health by meeting basic human needs, providing holistic care, and engaging in health promotion. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 178. Interdisciplinary: Medicine. 3 Hours.
Interdisciplinary perspectives on the history of medicine as well as the practice of modern medicine. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 179. Interdisciplinary: Public Health. 3 Hours.
Introduction to the scope of modern public health. Epidemiology. Epidemics and pandemics. Health behavior and occupational health and safety. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 180. Interdisciplinary: African American Studies. 3 Hours.
An interdisciplinary study of major theoretical, and critical discourses of Black Studies, and its emergence as a political/social movement and discipline. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 181. Interdisciplinary: Women's Studies. 3 Hours.
An interdisciplinary study of role of women in society through social, political, economic, philosophical, historical, and biological perspectives. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 182. Interdisciplinary: Neuroscience. 3 Hours.
An exploration of the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions. An examination of the molecular basis of nervous system disorders and diseases. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 183. Interdisciplinary: Nutrition Sciences. 3 Hours.
Introduction to principles of nutrition; metabolism and function of essential nutrients and their relation to growth and optimal functioning of the body; biosynthesis of vitamins; dietary recommendations to promote wellness and prevent chronic disease; human requirements for energy, amino acids, minerals, and vitamins; current human nutritional problems and obesity. This course is an option for freshmen in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 184. Interdisciplinary: Biomedical Engineering. 3 Hours.
Introduction to topics in biomedical engineering. Engineering solutions to problems in genomics, proteomics, and nanotechnology. Introduction to challenges in biomaterials and bioinstrumentation. Not for engineering majors. This course is an option for freshmen in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 186. Interdisciplinary: International Studies. 3 Hours.
An introductory survey of the problems and practices of global cooperation and conflict. Discussion of issues in international economics such as trading blocs, wealth distribution; issues in social justice and human rights; issues in international law and politics such as the United Nations. This course is an option for freshmen in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 200. Seminar: Independent Project. 3 Hours.
The University Honors Program student writes a two-page proposal describing the scope and outcomes of the proposed project to be conducted under the mentorship of an internal and external advisor. The project replaces a regular honors seminar. HON 200 is taken for a grade (A-F). Prerequisite: The proposal must be pre-approved by a majority of the Honors Council. Permission of instructor.

HON 201. Interdisciplinary: English. 3 Hours.
Process and final product of expository, argumentative, and analytical essays in a variety of disciplines. Research and documentation required on essays. Introduction to fundamentals of creative writing. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 202. Interdisciplinary: Chemistry. 3 Hours.
Covers fundamental concepts of organic chemistry and biochemistry studied in an interdisciplinary context. For non-science majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 203. Interdisciplinary: Psychology. 3 Hours.
Advanced application of scientific method to behavior. Areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences are studied in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 204. Interdisciplinary: Theology. 3 Hours.
An exploration of religion, its nature, warrant, and significance in an interdisciplinary context. God, evil, religious experience, faith, and reason. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 205. Interdisciplinary: Science. 3 Hours.
Exploration of recent developments in modern biology, chemistry, and physics in an interdisciplinary context. Basic physical laws and structures, cosmic history and evolution. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 206. Interdisciplinary: Anthropology. 3 Hours.
An interdisciplinary exploration of concept of culture; similarities and differences among human groups. Interpretation of human fossil record; archaeological methods and explorations of ancient civilizations. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 207. Interdisciplinary: Urban Studies. 3 Hours.
An interdisciplinary study of social and demographic characteristics of cities, structures of urban governments, intergovernmental relations, lifestyles, and electoral politics in metropolitan environments. Urban problems compared to rural and suburban problems. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 208. Interdisciplinary: Music. 3 Hours.
Basic elements of music and music notation: rhythm, scales, keys, and chords. Physical and perceptual nature of musical tones and numerical basis of scales, tuning, and musical instrument design. A variety of music styles are studied in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 209. Interdisciplinary: Business. 3 Hours.
Survey of business principles, international business, business ethics, and trading blocks in an interdisciplinary context. Business and government interactions. Not intended for Business majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 210. Participation in Honors. 1 Hour.
Student must participate in at least eight special events sponsored by the Honors Program including special lectures, visiting speakers, workshops and field trips. Must have completed HON 110. Permission of instructor. Pass/Fail.

HON 211. Interdisciplinary: Philosophy. 3 Hours.
Introductory survey of philosophy, its nature, methods, and problems explored in an interdisciplinary context. Classic and contemporary readings. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 212. Community Service. 1 Hour.
Student must have signed a contract and completed a minimum 20 hours community service in a designated, extended project and have attended meetings to discuss general issues related to community service. Must have completed HON 112. Permission of instructor. Pass/Fail.

HON 215. Interdisciplinary: Art and Art History. 3 Hours.
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of the aesthetic experience. Various media, methods, subject matter, and vocabulary discussed in an interdisciplinary context. Not for Art majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 225. Interdisciplinary: Psychiatry and Behavioral Neurobiology. 3 Hours.
Major psychiatric disorders and topics in behavioral biology discussed in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 253. Interdisciplinary: Biology. 3 Hours.
Selected topics in contemporary biology discussed in an interdisciplinary context. Animal form and function, behavior, ecology, and evolution. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 254. Interdisciplinary: Literature. 3 Hours.
American, British and Irish, and world literature from a variety of historical periods studied in an interdisciplinary context. Emphasis on writing and literary analysis. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 255. Interdisciplinary: Physics. 3 Hours.
Survey of physics. Matter, energy, light. Selective topics in modern physics discussed in an interdisciplinary context. Basic laws of physics, modern theories of matter and the universe, cosmic history and evolution. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 256. Interdisciplinary: Law and Ethics. 3 Hours.
Interdisciplinary discussion of the nature and function of law and legal institutions. The Supreme Court and constitutional issues. Ethics and morality in modern society. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 257. Interdisciplinary: Cognitive Science. 3 Hours.
An introduction to the major issues in modern cognitive science. An interdisciplinary approach drawing from cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 258. Interdisciplinary: Economics. 3 Hours.
Economic principles, economic analysis, stock exchange, trading blocks and world trade examined in an interdisciplinary context. Not intended for Business majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 259. Interdisciplinary: Theatre. 3 Hours.
Understanding the theatre experience through class lectures, reading and writing assignments, demonstrations, and discussions. Writing is a significant component of the course. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 260. Interdisciplinary: Government. 3 Hours.
An introduction to the institutions and processes of American government in an interdisciplinary context. Exposure to political cultures and systems around the world. Transitions to democracy. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 261. Interdisciplinary: History. 3 Hours.
An interdisciplinary exploration of significant world historical developments from the beginning of the early modern era (approximately 1600 CE) to the present. Intellectual movements, political revolutions and nationalism, industrialization, cultural changes, and the relationship between Western and non-Western societies. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 262. Interdisciplinary: Mathematics. 3 Hours.
Mathematics is studied in an interdisciplinary context focusing on the development of quantitative reasoning skills, quantitative literacy, and deductive inference. Topics incorporate pre-calculus algebra, pre-calculus trigonometry, probability, descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 263. Interdisciplinary: Justice Sciences. 3 Hours.
Introduction to the criminal justice system (police, courts, and corrections). Examination of crime and delinquency in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 264. Interdisciplinary: Sociology. 3 Hours.
An interdisciplinary approach to human social life, its forms and consequences for everyday life. An exploration of selective topics related to social inequalities and differentiation by race, ethnicity, class, and gender. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 265. Interdisciplinary: Communications. 3 Hours.
An interdisciplinary approach to issues in the history of newspapers, books, magazines, radio, television, cinema, recording industry, and the Internet. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 266. Interdisciplinary: Film. 3 Hours.
An interdisciplinary analysis of film and its role in modern society. The understanding of film as art form. Examination of editing, directing, and other aspects of film production. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 267. Seminar: Tropical Ecology. 3 Hours.
Major tropical ecotopes; ecology of terrestrial, aquatic, and marine tropical organisms. Major portion conducted at tropical field station in Caribbean. Lecture and field trips (May session). Permission of instructors, Honors Program Director, UAB Study Abroad Director and payment of all study abroad fees required to enroll. This course is equivalent to BY 267 Tropical Ecology, which will take place in the Bahamas.

HON 268. Seminar: Galapagos Ecology. 3 Hours.
An overview of the ecology of the Galapagos Island, with an emphasis on the ecology of terrestrial and marine organisms. Major portion of course conducted on the Galapagos Islands. Lecture & field trips. (May session) Permission of instructors, Honors Program Director, UAB Study Abroad Director and payment of all study abroad fees required to enroll. This course is equivalent to BY 268-SA, which will take place in Galapagos Islands.

HON 269. Seminar: Rain Forest Ecology. 3 Hours.
Physical and environmental factors that structure rain forest, biodiversity of life, and interactions of its organisms. Prominent biota. Major portion of course taught at tropical field station in Costa Rica. Lecture and field trips. (May session). Permission of instructors, Honors Program Director, UAB Study Abroad Director and payment of all study abroad fees required to enroll. This course is equivalent to BY 269-SA, which will take place in Costa Rica.
Prerequisites: BY 124 [Min Grade: D]

HON 270. Interdisciplinary: Computer Science. 3 Hours.
Perspectives on modern computing in an interdisciplinary context. Artificial intelligence. Fundamentals of hardware, software, human-computer interfaces, networking, multi-media, databases, privacy and digital security. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 271. Interdisciplinary: Linguistics. 3 Hours.
An interdisciplinary approach to the scientific study of language. Principles underlying phonology, morphology, syntax and semantics. Language acquisition, production, and perception. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 272. Interdisciplinary: Foreign Languages. 3 Hours.
An interdisciplinary approach to the exploration of the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 273. Interdisciplinary: Education. 3 Hours.
Interdisciplinary perspectives on current issues and problems in education, the role and value of diversity in education, and modern trends in effective pedagogy. Issues in cognitive development. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 274. Interdisciplinary: Engineering. 3 Hours.
An interdisciplinary introduction to profession of engineering, engineering design, and problem solving. Examination of significant engineering feats in history. Issues facing modern engineering. Not for engineering majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 275. Interdisciplinary: Health Professions. 3 Hours.
An interdisciplinary introduction to current issues in health information management, health care management, and medical technology. Selected topics in the clinical and diagnostic sciences, nutrition, nuclear medicine technology, and rehabilitation sciences. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 276. Interdisciplinary: Nursing. 3 Hours.
An interdisciplinary approach to the practice of professional nursing as an evidence-based, goal-directed activity for assisting patients to achieve optimal health by meeting basic human needs, providing holistic care, and engaging in health promotion. Selected topics such as health literacy, critical care, etc. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 278. Interdisciplinary: Medicine. 3 Hours.
Interdisciplinary perspectives on the history of medicine as well as the practice of modern medicine. Selected topics in medical technology and bioethical implications. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 279. Interdisciplinary: Public Health. 3 Hours.
Introduction to the scope of modern public health. Interdisciplinary perspectives on epidemiology, Disease transmission, epidemics and pandemics. Health behavior and occupational health and safety. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 280. Interdisciplinary: African American Studies. 3 Hours.
An interdisciplinary study of major theoretical and critical discourses of Black Studies, and its emergence as a political/social movement and discipline. Selective topics in History, Religion, Social Organization, Politics, Economics, Creative Production, and Psychology. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 281. Interdisciplinary: Women’s Studies. 3 Hours.
An interdisciplinary study of role of women in society through social, political, economic, philosophical, historical, and biological perspectives. Theories of women’s studies. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 282. Interdisciplinary: Neuroscience. 3 Hours.
An exploration of the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions. An examination of the molecular basis of nervous system disorders and diseases. Interdisciplinary coverage that spans the anatomy, evolution, development, genetics, biochemistry, cell biology, physiology, electrophysiology, pharmacology, circuitry and pathology of the nervous system. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 283. Interdisciplinary: Nutrition Sciences. 3 Hours.
Overview of principles of nutrition; metabolic disorders; dietary deficiencies and chronic disease; metabolism and function of essential nutrients and their relation to growth and optimal functioning of the body; biosynthesis of vitamins; dietary recommendations to promote wellness; human requirements for energy, amino acids, minerals, and vitamins; current human nutritional problems and obesity. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 284. Interdisciplinary: Biomedical Engineering. 3 Hours.
Overview of field of biomedical engineering. Illustrations of engineering solutions to problems in genomics, proteomics, and nanotechnology. Introduction to challenges in biomaterials and bioinstrumentation. Not for engineering majors. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 285. Interdisciplinary: Environmental Science. 3 Hours.
Environmental issues related to population growth, environmental health sciences, climate change, water and energy resources, pollution, waste disposal, air/water pollution, plant and animal extinctions, food resources, and sustainability. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 286. Interdisciplinary: International Studies. 3 Hours.

HON 301. Interdisciplinary: English. 3 Hours.
Process and final product of expository, argumentative, and analytical essays in a variety of disciplines. Research and documentation required on most essays. Emphasis on developing theses and arguments with textual support. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 302. Interdisciplinary: Chemistry. 3 Hours.
Covers fundamental concepts of organic chemistry and biochemistry in an interdisciplinary context. For non-science majors. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum. Writing assignments structured to build on scientific reasoning.

HON 303. Interdisciplinary: Psychology. 3 Hours.
Advanced application of scientific method to behavior. In-depth analysis of areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 304. Interdisciplinary: Theology. 3 Hours.
An in-depth exploration of the nature of religion and its role in society in an interdisciplinary context. Comparative religion. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 305. Interdisciplinary: Science. 3 Hours.
Selected topics in contemporary biology, chemistry, and physics. Takes an interdisciplinary approach with a strong emphasis on understanding at the systems level. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 310. Participation in Honors. 1 Hour.
Student must participate in at least eight special events sponsored by the Honors Program including special lectures, visiting speakers, workshops and field trips. Must have completed HON 210. Permission of instructor. Pass/Fail.

HON 312. Community Service. 1 Hour.
Student must have signed a contract and completed a minimum 20 hours community service in a designated, extended project and have attended meetings to discuss general issues related to community service. Must have completed HON 212. Permission of instructor. Pass/Fail.

HON 313. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature of religion and its role in culture and society; God, evil, religious experience, faith, and reason; comparative religion; and religious practices. See Class Schedule for specific topic.

HON 314. Seminar: Medicine. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of medicine, the practice of modern medicine, narrative medicine, medical instrumentation and surgical techniques. See Class Schedule for specific topic.

HON 315. Seminar: Film. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, and independent filmmaking. See Class Schedule for specific.

HON 316. Seminar: Ethnographic Filmmaking. 6 Hours.
Students will document and analyze aspects of human social life using film and video. They will develop an understanding of the visual syntax and narrative structure of successful ethnographic and documentary films through discussion and criticism in the classroom as well as through short film projects of their own. Permission of instructor.

HON 317. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 318. Seminar: Engineering. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 319. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 320. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 321. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 322. Seminar: Law. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.

HON 323. Seminar: Sociology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human social life, social inequalities and differentiation by race, ethnicity, class, and gender. See Class Schedule for specific topic.

HON 324. Seminar: Foreign Languages and Literatures. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics related to the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-Western nations through the use of humanities disciplines. See Class Schedule for specific topic.

HON 325. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.
HON 326. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 327. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of science and technology; the frontiers of modern science and technology. See Class Schedule for specific topic.

HON 328. Seminar: Mathematics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of mathematics, quantitative reasoning, deductive inference, probability, and descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. See Class Schedule for specific topic.

HON 329. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 330. Seminar: Physics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory. See Class Schedule for specific topic.

HON 331. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in curriculum development and instruction, diversity and educational disparities, aptitudes and abilities, and pedagogical techniques. See Class Schedule for specific topic.

HON 332. Seminar: Biology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of biology, interdisciplinary issues, and important new developments in the biological sciences. See Class Schedule for specific topic.

HON 333. Seminar: Geology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: study of the earth, its materials and natural resources; processes of change; interpretation of Earth's history through geologic time; atmosphere, weather, and climate change. See Class Schedule for specific topic.

HON 334. Seminar: Communication Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human communication, interpersonal relationships, nonverbal communication, public relations, and mass media. See Class Schedule for specific topic.

HON 335. Seminar: Library Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: the historical role of the library in culture and society; how libraries play a role in society as disseminators, defenders and preservers of knowledge; issues affecting intellectual freedom; the effects of digital publishing on scholarship; and the evolving structure and function of libraries. See Class Schedule for specific topic.

HON 336. Seminar: Government and Public Service. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the institutions and process of American government, comparative politics, political theory, and contemporary political issues. See Class Schedule for specific topic.

HON 337. Seminar: Urban Affairs. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the policy process at local, state, and federal levels of government. See Class Schedule for specific topic.

HON 338. Seminar: Theatre. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the theatre experience; the history of theatre; and theatre and society. See Class Schedule for specific topic.

HON 339. Seminar: Music. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in music appreciation, history of music, music and mathematics, music perception, and musical genres. See Class Schedule for specific topic.
HON 340. Seminar: Nursing. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the practice of professional nursing, holistic care, health promotion, health literacy, and critical care. See Class Schedule for specific topic.

HON 341. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 342. Seminar: Medicine. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of medicine, the practice of modern medicine, narrative medicine, medical instrumentation and surgical techniques, and issues in bioethics. See Class Schedule for specific topic.

HON 343. Seminar: Medicine. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in information technology, fundamentals of hardware and software, and human-computer interfaces. See Class Schedule for specific topic.

HON 344. Seminar: Computer and Information Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in information technology, fundamentals of hardware and software, and human-computer interfaces. See Class Schedule for specific topic.

HON 345. Seminar: Justice Sciences. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 346. Seminar: Health Related Sciences. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in clinical and diagnostic sciences, nutrition, nuclear medicine technology, occupational and physical therapy, and rehabilitation sciences. See Class Schedule for specific topic.

HON 347. Seminar: Accounting. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in accounting and taxation, management, information systems, business ethics, marketing, and industrial distribution. See Class Schedule for specific topic.

HON 348. Seminar: Business. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in accounting and taxation, management, information systems, business ethics, marketing, and industrial distribution. See Class Schedule for specific topic.

HON 349. Seminar: Economics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in macroeconomics and microeconomics, labor economics, behavioral economics, law and banking, and international trade. See Class Schedule for specific topic.

HON 350. Seminar: Womens Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the role of women in society through social, political, economic, philosophical, historical, and biological perspectives. See Class Schedule for specific topic.

HON 353. Interdisciplinary: Biology. 3 Hours.
n-depth study of selected topics in contemporary biology discussed in an interdisciplinary context. From microscopic to macroscopic. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 354. Interdisciplinary: Literature. 3 Hours.
Close analysis of a selection of books from American, British and Irish, and world literature in an interdisciplinary context. Emphasis on developing themes for writing literary analyses. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 360. Interdisciplinary: Government. 3 Hours.
In-depth analysis on selective issues regarding the institutions and processes of American government in an interdisciplinary context. Exposure to political cultures and systems around the world. Transitions to democracy. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 362. Interdisciplinary: Mathematics. 3 Hours.
Mathematics is studied in an interdisciplinary context focusing on the
development of quantitative reasoning skills, quantitative literacy, and
deductive inference. Topics incorporate pre-calculus algebra, pre-
calculus trigonometry, probability, descriptive and inferential statistics
in the exploration of key mathematical ideas and concepts within the
framework of applied math and physics. This course is an option in the
curriculum of the University Honors Program, an interdisciplinary arts and
sciences curriculum that replaces the core curriculum.

HON 363. Interdisciplinary: Justice Science. 3 Hours.
Introduction to the criminal justice system (police, courts, and
corrections). Examination of crime and delinquency in an interdisciplinary
context. Analyses of trends in crime statistics. This course is an option in the
curriculum of the University Honors Program, an interdisciplinary arts and
sciences curriculum that replaces the core curriculum.

HON 367. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it
is taught. It provides instructors with the opportunity to deal with topics
that may not be covered in a regular departmental course or which may
be treated in another course but only at an introductory level. Topics
may include: special topics in the history of science and technology; the
frontiers of modern science and technology.

HON 368. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it
is taught. It provides instructors with the opportunity to deal with topics
that may not be covered in a regular departmental course or which may
be treated in another course but only at an introductory level. Topics
may include: special topics in the history of science and technology; the
frontiers of modern science and technology.

HON 369. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it
is taught. It provides instructors with the opportunity to deal with topics
that may not be covered in a regular departmental course or which may
be treated in another course but only at an introductory level. Topics
may include: special topics in the history of science and technology; the
frontiers of modern science and technology. See Class Schedule for
specific topic.

HON 377. Seminar: Quilting. 3 Hours.
This course focuses on the art of quilting and its social and cultural
context. The history of quilting is examined in an interdisciplinary context.
Quilts will be made as part of a group project.

HON 379. Interdisciplinary: Public Health. 3 Hours.
Introduction to the scope of modern public health. Interdisciplinary
perspectives on epidemiology, Disease transmission, epidemics and
pandemics. Health behavior, occupational health and safety, and health
policy. This course is an option in the curriculum of the University Honors
Program, an interdisciplinary arts and sciences curriculum that replaces
the core curriculum.

HON 383. Seminar: Theatre. 3 Hours.
This course is a seminar whose content may be different each time it
is taught. It provides instructors with the opportunity to deal with topics
that may not be covered in a regular departmental course or which may
be treated in another course but only at an introductory level. Topics may
include: special topics in the theatre experience; the history of theatre;
and theatre and society. See Class Schedule for specific topic.

HON 384. Seminar: Theatre. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the theatre experience; the history of theatre;
and theatre and society. See Class Schedule for specific topic.

HON 385. Seminar: Theatre. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the theatre experience; the history of theatre;
and theatre and society. See Class Schedule for specific topic.

HON 386. Seminar: Theatre. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the theatre experience; the history of theatre;
and theatre and society. See Class Schedule for specific topic.

HON 387. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the nature of religion and its role in culture and
society; God, evil, religious experience, faith, and reason; comparative
religion; and religious practices. See Class Schedule for specific topic.

HON 388. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the nature of religion and its role in culture and
society; God, evil, religious experience, faith, and reason; comparative
religion; and religious practices. See Class Schedule for specific topic.

HON 389. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the nature of religion and its role in culture and
society; God, evil, religious experience, faith, and reason; comparative
religion; and religious practices. See Class Schedule for specific topic.

HON 390. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is
taught. It provides instructors with the opportunity to deal with topics that
may not be covered in a regular departmental course or which may be
covered in another course but only at an introductory level. Topics may
include: special topics in the nature of religion and its role in culture and
society; God, evil, religious experience, faith, and reason; comparative
religion; and religious practices. See Class Schedule for specific topic.
HON 391. Seminar: Urban Affairs. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the policy process at local, state, and federal levels of government. See Class Schedule for specific topic.

HON 392. Seminar: Special Topics. 3 Hours.
This course is a seminar offered by a visiting scholar. The topic and content of the course will be in the area of expertise of the scholar in residence. See Class Schedule for specific topic.

HON 393. Interdisciplinary: Arts and Humanities. 3 Hours.
An in-depth interdisciplinary study of major topics and movements within the fields of art, film, literature, music, philosophy, photography, and theatre. This course is an option for third and fourth year Teaching Assistants in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 394. Interdisciplinary: Social and Behavioral Sciences. 3 Hours.
An in-depth interdisciplinary study of major topics and movements within the fields of anthropology, history, political science, psychology, and sociology. This course is an option for third and fourth year Teaching Assistants in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 395. Interdisciplinary: Natural Sciences. 3 Hours.

HON 397. Seminar: Physics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory.

HON 399. Honors Research. 1-3 Hour.
This research practicum provides students in the University Honors Program an opportunity to receive academic credit for conducting supervised research with a faculty mentor. Students are required to work 3 hours a week. The practicum does not replace any component of the University Honors curriculum. HON 399 is taken for a grade (A-F). Permission of instructor. (1-3 hrs.).

HON 400. Honors Program: Seminar in English. 3 Hours.
Honors Program seminar in English.

HON 410. Seminar: Social Work. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in empirically based social work practice, history of social welfare, family care in cross-cultural perspectives, and social welfare policy analysis. See Class Schedule for specific topic.

HON 412. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 413. Seminar: African American Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core areas of African American Studies such as history, religion, social organization, politics, economics, creative production, and psychology. See Class Schedule for specific topic. (Prerequisite: Admittance to the University Honors Program).

HON 414. Seminar: Women’s Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core areas of African American Studies such as history, religion, social organization, politics, economics, creative production, and psychology. See Class Schedule for specific topic.

HON 415. Seminar: African American Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core areas of African American Studies such as history, religion, social organization, politics, economics, creative production, and psychology. See Class Schedule for specific topic.

HON 416. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 417. Seminar: Creative Writing. 3 Hours.
In this creative writing course, groups of writers who are joined together by aesthetic approach or political beliefs are studied. Students examine the different sub-genres, styles, and forms, and analyze how authors do what they do and learn how to apply what they learn to their own creative work. Weekly writing assignments and student workshops are designed to produce better writers and also better critical readers of others work. Literary journals are reviewed with an eye toward publication and engagement with the broader world of contemporary poetry, fiction and creative nonfiction. See Class Schedule for specific topic.

HON 418. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 419. Seminar: Mathematics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in history of mathematics, quantitative reasoning, deductive inference, probability, and descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics.
HON 420. Seminar: Sociology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human social life, social inequalities and differentiation by race, ethnicity, class, and gender. See Class Schedule for specific topic.

HON 421. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 422. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 423. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 424. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 425. Seminar: Gerontology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the biology of aging, psychology of aging, politics of aging, memory disorders, geriatric medicine, death and dying. See Class Schedule for specific topic.

HON 426. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 427. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 428. Seminar: Biology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of biology, interdisciplinary issues, and important new developments in the biological sciences. See Class Schedule for specific topic.

HON 429. Seminar: Biology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of biology, interdisciplinary issues, and important new developments in the biological sciences. See Class Schedule for specific topic.

HON 430. Seminar: Music. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in music appreciation, history of music, music and mathematics, music perception, and musical genres. See Class Schedule for specific topic.

HON 431. Seminar: Film. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, and independent filmmaking. See Class Schedule for specific topic.

HON 432. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 433. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.
HON 434. Seminar: Cognitive Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. See Class Schedule for specific topic.

HON 435. Seminar: Cognitive Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. See Class Schedule for specific topic.

HON 436. Seminar: Computer and Information Sciences. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in information technology, fundamentals of hardware and software, and human-computer interfaces. See Class Schedule for specific topic.

HON 437. Seminar: Education. 1-3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in curriculum development and instruction, diversity and educational disparities, aptitudes and abilities, and pedagogical techniques. See Class Schedule for specific topic.

HON 438. Seminar: English. 1-3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 439. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 440. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 441. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in curriculum development and instruction, diversity and educational disparities, aptitudes and abilities, and pedagogical techniques. See Class Schedule for specific topic.

HON 442. Seminar: Engineering. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in biomedical engineering, tissue generation, nanotechnology, and bioinstrumentation, bio-imaging, and biomaterials, civil and environmental engineering. See Class Schedule for specific topic.

HON 443. Seminar: Engineering. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in biomedical engineering, tissue generation, nanotechnology, and bioinstrumentation, bio-imaging, and biomaterials, civil and environmental engineering. See Class Schedule for specific topic.

HON 444. Seminar: Environmental Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 445. Seminar: Environmental Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 446. Seminar: Government. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the institutions and process of American government, comparative politics, political theory, and contemporary political issues. See Class Schedule for specific topic.

HON 447. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.
HON 448. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the problems and practice of global cooperation and conflict, global power, wealth, and social justice. See Class Schedule for specific topic.

HON 449. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 450. Seminar: International Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory.

HON 451. Seminar: Law. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.

HON 452. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 453. Seminar: Physics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the problems and practice of global cooperation and conflict, global power, wealth, and social justice. See Class Schedule for specific topic.

HON 454. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 455. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 456. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 457. Seminar: International Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the problems and practice of global cooperation and conflict, global power, wealth, and social justice. See Class Schedule for specific topic.

HON 458. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 459. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 460. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 461. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 462. Seminar: Law. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.

HON 463. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 464. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 465. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.
HON 467. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 468. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 469. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 470. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 471. Seminar: Nursing. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the practice of professional nursing, holistic care, health promotion, health literacy, and critical care. See Class Schedule for specific topic.

HON 472. Seminar: Nursing. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the practice of professional nursing, holistic care, health promotion, health literacy, and critical care. See Class Schedule for specific topic.

HON 473. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 474. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 475. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 476. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 477. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 478. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 479. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.
HON 480. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 481. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 483. Seminar: Government. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the institutions and process of American government, comparative politics, political theory, and contemporary political issues. See Class Schedule for specific topic.

HON 484. Seminar: Economics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in macroeconomics and microeconomics, labor economics, behavioral economics, law and banking, and international trade. See Class Schedule for specific topic.

HON 485. Seminar: Film. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, and independent filmmaking. See Class Schedule for specific topic.

HON 486. Seminar: City as Text. 3 Hours.
City as Text© is a pedagogy developed by the National Collegiate Honors Council, the umbrella organization for all honors programs and colleges in the United States. This experiential learning course allows students to explore a community and obtain first hand knowledge of patterns in housing, commercial development, traffic flow, community activities. Students explore architecture, landscaping, social gatherings, signage as well as talk to residents of the community. Students reflect on and write about their experiences in the community and reflect on their prior expectations before experiencing the community.

HON 487. Seminar: Directed Research. 4 Hours.
This course offers an Oxford tutorial option where the student engages in an in-depth analysis of a specific research topic. The student meets with his/her mentor twice a week to discuss and analyze primary source papers.

HON 488. Seminar: Business. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in accounting and taxation, management, information systems, business ethics, marketing, and industrial distribution. See Class Schedule for specific topic.

HON 489. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 490. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 491. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 492. Seminar: Communications. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human communication, interpersonal relationships, nonverbal communication, public relations, and mass media. See Class Schedule for specific topic.

HON 493. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.
HON 494. Seminar: Communications. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human communication, interpersonal relationships, nonverbal communication, public relations, and mass media. See Class Schedule for specific topic.

HON 495. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 496. Seminar: Public Health. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in epidemiology; disease transmission; epidemics and pandemics; health behavior, occupational health and safety; health care administration, and health care policy. See Class Schedule for specific topic.

HON 497. Seminar: Public Health. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in epidemiology; disease transmission; epidemics and pandemics; health behavior, occupational health and safety; health care administration, and health care policy. See Class Schedule for specific topic.

HON 498. Seminar: Public Health. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in epidemiology; disease transmission; epidemics and pandemics; health behavior, occupational health and safety; health care administration, and health care policy. See Class Schedule for specific topic.

HON 499. Seminar: Economics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in macroeconomics and microeconomics, labor economics, behavioral economics, law and banking, and international trade. See Class Schedule for specific topic.

HPE-Health Physical Educ Courses

HPE 200. Quality of Life. 2 Hours.
Total health; effects of lifestyle on total health. Decision-making skills to enable health enhancing choices and engage in health enhancing activities to improve and maintain health status. For education majors only.

HPE 301. Teaching Health Education and Physical Education in Elementary Schools. 3 Hours.
For classroom teachers. Communicating and working with physical education specialists, selecting developmentally appropriate activities, and integrating movement activities and concepts into classroom subjects. Background information and skills to implement health education in grades K-6.
Prerequisites: HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or HE 222 [Min Grade: C]

HRP-Hlth Related Prof - Honors Courses

HRP 101. Experience the Univ Transition. 2 Hours.
Structured introduction to the college experience for entering freshmen with health professions majors.

HRP 105. Business Principles for Health and Life Sciences. 3 Hours.
Basic leadership concepts will be covered with special emphasis on oral and written communication, planning and goal setting, team building, decision-making and problem solving.

HRP 401. Honors Seminar I. 1 Hour.
An overview of health care systems with current system-wide issues such as health care financing, reimbursement issues, security and privacy of health related information, and bioethics.

HRP 402. Honors Seminar II. 1 Hour.
A continuation of HPR 401 with an emphasis on health care leadership issues such as managing group dynamics, negotiating, conflict management, and decision making models.

HRP 410. Honors Project. 1-3 Hour.
Development and completion of a researchable project for presentation and publication under the direction of a faculty mentor. Two to four terms required for a minimum accumulation of 4 semester hours. Written research paper submitted and grades assigned upon completion of the 4 semester hours.

HUM-Humanities Courses

HUM 120. Introductory Humanities Seminar. 3 Hours.
Special topics to introduce students to the study of the humanities.

HUM 160. First Year Experience in HUM. 1 Hour.
The objective of this course is to introduce incoming freshmen to an education in the humanities in context of the university. It is meant to help prepare students for a successful collegiate career in the study of the humanities.

HY-History Courses

HY 101. Western Civilization I. 3 Hours.
This course examines the diverse cultures which are included in what is commonly referred to as the West. Students develop an understanding of the evolution of religious, political, social, military and economic structures and relationships in Europe and the Middle East up to 1600. Students develop an appreciation of how individuals have influenced and been influenced by time and place. Ethics and Civic Responsibility are significant components to this course (QEP).
HY 102. Western Civilization II. 3 Hours.
This course examines developments in the Western World since 1600. Since for most of this period, European culture dominated the world the course will also examine interactions between the West and non-European cultures. The course focuses on political, economic, social and cultural developments and stresses change and continuity over time as well as the various ideas and debates which have marked the modern West. Ethics and Civic Responsibility are significant components of this course (QEP).

HY 104. World History to 1600. 3 Hours.
This course is designed to provide students with an understanding of the development of major world civilization from pre history to the early modern era (ca. 1600 CE). The principal characteristics of these civilizations such as political development, social structure, gender relations, religious beliefs and philosophies, will be examined. The ultimate goal is for students to see the world around them with an increased understanding and appreciation for the societies, traditions, and ideas that existed in the past and in many cases still exist and influence us today. Ethics and Civic Responsibility are significant components of this course (QEP).

HY 105. World History 1600 to the Present. 3 Hours.
This course will examine many significant world historical developments from the beginning of the early modern era (approximately 1600 CE) to the present. These historical developments include: intellectual movements, political revolutions and nationalism, industrialization, cultural changes, and the relationship between Western and non-Western societies. The ultimate goal of this course is for students to perceive the world around them with an increased understanding and appreciation for the diverse societies, traditions, and ideas that existed in the past and in many cases still exist and influence us today. Ethics and Civic Responsibility are significant components of this course (QEP).

HY 120. The United States To 1877. 3 Hours.
This course provides an introduction to some of the main political, social, cultural, and economic developments in American history from the era of exploration and colonial settlement through the end of the Civil War. Central themes of the course will include the cross-cultural encounters (and clashes) in the Americas between various European and native peoples; the spectacular growth of European settlements in North America; the creation (always contested) of an American national identity; the emergence of a market economy and the question of American ideas of success and happiness. Ethics and Civic Responsibility are significant components of this course (QEP).

HY 121. The United States Since 1877. 3 Hours.
This course assists students in gaining a sophisticated understanding of the development of modern America - its politics, economics and social fabric together with how these have helped shape its foreign involvement. In the process, this course helps students understand the big idea of "change over time" and how all people face the choice of using change to help themselves and others - or not do this with resultant consequences. Finally, this course offers "lessons" out of our past about civic engagement, cultural diversity, and emerging globalization - "values" for productive citizenship on the contemporary scene. Ethics and Civic Responsibility are significant components of this course (QEP).

HY 201. Economic History of the United States. 3 Hours.
Economic developments of U.S. from colonial times to present, focusing on business organization, technology and innovation.

HY 202. Reacting to the Past. 3 Hours.
Reacting to the Past is an award winning pedagogy involving complex, collaborative role-playing games in which students seek to attain "victory objectives" while grappling with central tests in the history of ideas. The class will conduct several Reacting games that will allow students to explore key moments in European intellectual and cultural history.

HY 203. History of American Technology. 3 Hours.
History of civilization of new technology in the United States emphasizing role of inventors and engineers.

HY 206. Introduction to Film and History. 3 Hours.
This course will examine fiction and non-fiction films as socially significant documents. Students will receive an introduction to the techniques of film analysis in the class.

HY 207. The American Film. 3 Hours.
Creation and development of motion pictures in the United States, including how films are made, American film industry, and impact of Hollywood on American culture.

HY 208. Women in Film. 3 Hours.
This course will provide a history of women in film, focusing on both women working in the film industry and the representation of women on screen. The course will focus on American film history, 1930's Hollywood to the present.

HY 210. History of American Medicine. 3 Hours.
Survey of patterns and trends in American medicine.

HY 214. Roman Republic. 3 Hours.
Survey of Roman history, society, and culture from the founding of the city of Rome in 753 BCE to the death of Julius Caesar in 44 BCE. Course covers the conquest of Italy, the Punic wars, and the conquest of the Hellenistic kingdoms. Emphasis on the impact of military success on the lifestyle and culture of the Roman people.

HY 217. History of Ancient Greece. 3 Hours.
Ancient Greece from prehistory to Alexander and the Hellenistic age.

HY 218. History of the Roman Empire. 3 Hours.
Survey of Roman history, society, and culture from the death of Julius Caesar in 44 BCE to the reign of Constantine in the early fourth century CE, with an emphasis on how the Roman empire ruled.

HY 219. Late Antiquity and Early Middle Ages. 3 Hours.
This course explores the transition from the Classical Greco-Roman Mediterranean world to the Middle Ages. It begins with the conversion of the Roman Empire to Christianity. Then it explores the collapse of the Western Roman Empire and the continuation of the Eastern Empire (known to historians as the Byzantine Empire). It places Muhammad and the rise of Islam in its historical context and explores the impact of the early Islamic conquests. The course will finish around the year 800 with the reign of Charlemagne in the West and Islamic Abbasid Dynasty ruling in Baghdad.

HY 222. African-American History to 1865. 3 Hours.
Ancient African civilizations and their demise, the slave trade and slavery in New World to the Civil War.

HY 224. African-American History Since 1865. 3 Hours.
Survey of late 19th century to present African American history.
HY 227. Technology and Society. 3 Hours.
Relationship of machines and people in modern industrial society. Topics from recent American history and from contemporary problems.

HY 228. Southern Industrial History. 3 Hours.
Provides an overview of the major social, economic, and political developments behind the numerous attempts to industrialize the South from the post Civil War period to the present. Attention will be paid to Birmingham’s Industrial District, the impact of World War I and World War II on Southern Industry, Labor Music, Women in Industry, Organized Labor and Unions, as well as the impact of the Space and Automobile Industry on the Modern South.

HY 230. Middle East 550 BCE to 1453 CE. 3 Hours.
Survey course on the history of the Middle East from the rise of the Persian Empire to the Ottoman conquest of Constantinople. Course covers the Persian Empire, Alexander the Great's conquests, Roman in the Middle East, the early Islamic Conquests, and the impact of the Crusades. The development of Judaism, Christianity, and Islam are emphasized.

HY 234. The World Since 1945. 3 Hours.
Events and trends from the end of the Second World War to the present, emphasizing the origins of the Cold War, decolonization, European integration, globalization, the rise of China, India and Japan, the revolutions in Eastern Europe in 1989 and the collapse of communism in the Soviet Union, the third wave of democratization, Islamic fundamentalism, 9/11, and the international financial crisis of 2008-2009.

HY 235. War in the Modern World. 3 Hours.
American military history from colonial times to present, including impact of Western ideas and technology on national defense policy.

HY 236. Europe Since 1945. 3 Hours.
After the Nazi catastrophe, what was to be the future of Europe? After sketching the context of unparalleled death and destruction, this course focuses on European reconstruction on both sides of the Iron Curtain. While contrasting Eastern and Western regimes, course will also seek to compare postwar recovery plans, cultural aesthetics, and shared legacies borne out of the experience of World War II. Strong emphasis is given to questions of memory and national identity, the history of European integration in the West, and socialist interdependence in the East. After 1989, course will focus on the expansion of the European Union, alongside transnational cultural phenomena such as European soccer, environmentalism, spaces of memory, and the loaded question of Europe’s “boundaries” in the east and southeast.

HY 237. Eastern Europe 1600-1918. 3 Hours.
Before WWI, Eastern Europe consisted of a patchwork of ethnic groups ruled by four empires, which were ultimately destroyed with the rise of nationalism. This course explores this lost world of Eastern Europe in the Age of Empire and attends to four conceptual areas which dominated it: the concept and practice of Empire; the genesis, development, and triumph of nationalism; the contribution of the region’s diverse Jewish population; and questions surrounding the ultimate downfall of this world. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 238. Eastern Europe 1914-Present. 3 Hours.
This course traces drastic transformative processes which remade Eastern Europe during the violent twentieth century, including: nationalism, ethnic cleansing, genocide, the Holocaust, communism, the Cold War, and European integration. Virulent nationalism, Nazi atrocities, and the vicious revenge they inspired decimated the multiethnic world that had come before and forged ethnically homogenous nation-states with rigid frontiers. With previous understandings of property rights, moral responsibility, and neighborliness undermined, and with Soviet armies occupying the ruins that remained, communists and their unwitting nationalist allies found fertile ground for the establishment of command economies, which repressed the traumatized survivors of the Second World War and their descendants until 1989. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 239. The Holocaust. 3 Hours.
On the basis of extensive reading, this course introduces students to the central problems surrounding the Nazi genocide of European Jewry as well as the postwar memory debates which have resulted from it. We will examine Jewish culture, contributions, and integration in pre-1932 Europe, as well as after the Holocaust, and conclude by exploring the contemporary influence of the Holocaust, such as in Israeli national identity. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 245. Introduction to Latin American History. 3 Hours.
A sweeping survey of Latin American history from colonial times through the contemporary era focusing on forces and patterns that have shaped the region as a whole, making it broadly distinct from our own “Anglo” America.

HY 247. Indians, Spaniards & Creoles. 3 Hours.
A history of Latin American society and civilization in the formative era of Iberian (Spanish & Portuguese) colonialism, 1492 through c. 1810. The course looks at major pre-columbian civilizations; the Spanish Conquest; and nature of Spanish-Indian relations. It stresses the impact of Iberian values, norms, and institutions, i.e. Church and State, on the emergence of unique new hybrid or Creole societies by the end of the period.

HY 248. Modern Latin America. 3 Hours.
A survey of Latin American history from c. 1810 to the present. Covers the vital era of political independence and, through “case studies” of major countries, examines key trends and developments that have shaped the region and its 21 nations since then. Major topics include 19th century nation-state formation and economic modernization; 20th century urbanization, nationalism, social revolution, military dictatorships, and democratization, including the rise of influential women’s (and feminist) movements.

HY 251. Nineteenth-Century Europe. 3 Hours.
National consolidation, imperialist adventure, and European society and politics from 1815 to 1914.

HY 252. Twentieth Century Europe. 3 Hours.
Europe as transformed by total war, economic dislocation, rise of totalitarian movements, and post-1945 integration from 1914 to present.

HY 257. The Celtic Fringe: Ireland, Scotland, Wales. 3 Hours.
History of “other” British nations: Irish, Scots, and Welsh. Internal development and relations with England.
HY 258. Britain and the Third World. 3 Hours.
This course examines the relations between Great Britain, the modern world's first superpower and non-European peoples all over the world. In addition to examining issues of Empire, the course stresses the cultural interactions that were critical in the development of the modern world and the problems and opportunities of multi-ethnic societies. The course emphasizes those areas in Africa, Asia and the Middle East where the encounters between the British and the native culture created situations which are still major issues for the twentieth century world. Parallels to American experiences are also discussed. Ethics and Civic Responsibility are significant components of this course (QEP).

HY 259. Social History of Crime. 3 Hours.
This course examines the various approaches historians have made to the social and cultural history of criminal violence. While the topic is one that applies to every human society, most of the material deals with Europe and the United States.

HY 262. Introduction to Early Modern Spanish History. 3 Hours.
Survey of the history of Spain from the 15th to the 18th centuries with emphases on the social and cultural effects of European expansion, race and religion, the Inquisitions, and Spain's contribution to European art and literature.

HY 263. History of the Russian Empire. 3 Hours.
Russian history from prehistory to 1917, focusing on development of Russian state and its social and political character.

HY 264. Russian Revolution: 1917-1921. 3 Hours.
Russian Revolution with emphasis on political, social, and national conflicts in cities, in countryside, and in non-Russian areas.

Bolshevik Revolution and role of Soviet Union as world power.

HY 270. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 271. Traditional East Asian History and Culture. 3 Hours.
An introduction to the histories and cultures of East Asia (China, Japan, Korea, and Southeast Asia) from ancient times to 1800.

HY 272. Modern East Asia. 3 Hours.
A political and social history of East Asia and East Asia's relations with the West from 1800 to present.

HY 278. Untold Stories: Oral History. 3 Hours.
This course teaches the techniques and theories of oral history as a primary way to uncover untold or "hidden" histories of ordinary people. Students will conduct interviews of persons who participated in an aspect of history or who witnessed an important era.

HY 279. Women Rogues, Radicals and Reformers. 3 Hours.
This course looks at women as agents of their own history in the United States and of American society as a whole. It concentrates on how women have defined and used sexual politics, political radicalism, and reform agendas from the 1600s to the 1960s.

HY 280. Historic Preservation and Public Policy. 3 Hours.
Ways to research, assess, and use historic buildings and architecture as a way to study history and inform public policy.

HY 285. Mapping Our World. 3 Hours.
This course will focus on the historical applications of mapping and map-making. It will provide a background to geometric mapping and Geography using aerial photography, satellite remote sensing, Geographic Information Systems (GIS), and historical maps and related datasets. Students will be taught the importance of maps to a wide range of fields from a number of academic specialists. This will include the physical sciences (NASA atmospheric applications), biological sciences (environmental mapping), social sciences (crime mapping and archaeological mapping), health sciences (disease mapping), and humanities (religious mapping). Students will work in UAB labs and in broader Birmingham on learning ArcGIS and mapmaking skills, and will submit an e-Portfolio by the end of the semester. Quantitative Literacy is a significant component of this course (QEP).

HY 289. Topics in African American History. 3 Hours.
Special studies in African American historical topics.

HY 290. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 291. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 292. Topics in History/SL. 3 Hours.
Special studies of historical topics. May be repeated. Service Learning.

HY 300. The Historian's Craft. 3 Hours.
This course examines the values, methodology, and materials of historical analysis. During the semester students will develop their writing skills, study the quantitative aspects of historical scholarship and examine the ethical and civic responsibilities historians bear towards the profession and the larger community. Writing is a significant component of this course (QEP).

HY 303. Women in American History. 3 Hours.
Changing economic, political, and social roles of women from colonial period to present.

HY 304. U.S. Civil Rights Movement. 3 Hours.
History of civil rights from late 19th century to present; significance of movement to those involved and to rest of American society.

HY 305. Popular Culture in American History. 3 Hours.
Mass culture of U.S. through films and recorded sound, from creation of entertainment industry in 19th century to television and counterculture of 1960s.

HY 307. The American Film. 3 Hours.
Creation and development of motion pictures in the United States, including how films are made, American film industry, and the impact of Hollywood on American culture.

HY 308. History of Popular Music in the United States. 3 Hours.
Creation of musical entertainment, the changing audience, and diffusion of recordings from earliest recordings of music hall songs to rap and hip hop.

HY 309. American Film in the 1980s and 1990s. 3 Hours.
Focuses on the rise of the independent film in the 1980s and the struggle with mainstream Hollywood studios for dominance of cinema in the 1990s. Covers independent film makers, finance, scripts and what it takes to make a personal film.

HY 310. Film in the 1960s. 3 Hours.
The sixties were a revolutionary time for films and the film industry, and this course surveys film from Europe and Asia but with special emphasis on American film and the way it reflected the counter culture.
HY 311. History of the Documentary Film. 3 Hours.
Studies the development of the film documentary and the issues of representing reality on film. Deals with film aesthetic and the techniques of making films. Looks at American and European documentaries.

HY 312. Rock n Roll and Race Relations. 3 Hours.
Looks at popular music as a part of American Culture. Concentrates on the rise of R and B and rock n roll as the signifiers of a new youth culture in the United States with special emphasis on music in Birmingham.

HY 313. Indie Rock from Punk to Post Modern. 3 Hours.
Covers the rise of indie rock from the punks of the 1970s to the Seattle Sound of the 1990s, and its impact on popular culture. Also examines the influence of sampling, electronica and dance music on the alternative culture of the 1980s.

HY 314. Roman Republic. 3 Hours.
Survey of Roman history, society, and culture from the founding of the city of Rome in 753 BCE to the death of Julius Caesar in 44 BCE. Course covers the conquest of Italy, the Punic wars, and the conquest of the Hellenistic kingdoms. Emphasis on the impact of military success on the lifestyle and culture of the Roman people.

HY 315. Egypt in the Age of the Pyramids. 3 Hours.
This course spans the years 5000 BC through 1550 BC (Predynastic and Dynasties 1-17), which encompasses Egypt's pyramid building age. It will focus broadly on the archaeology, history, art, architecture, religion, and literature of this period. It is designed to stand independently of its companion course Imperial and Post-Imperial Egypt.

HY 316. Imperial and Post-Imperial Egypt. 3 Hours.
This course spans the years 1550 BC to the Ptolemaic-Roman periods, which covers Egypt's glorious imperial era (New Kingdom: Dynasties 18-10) and its decline in Dynasties 21-31, with the rise of other empires and the Macedonian and Roman control of Egypt. It focuses broadly on the archaeology, history, art, architecture, religion, and literature of this time span and is designed to stand independently of its companion course Egypt in the Age of the Pyramids.

HY 317. History of Ancient Greece. 3 Hours.
Ancient Greece from prehistory to Alexander and the Hellenistic age.

HY 318. History of the Roman Empire. 3 Hours.
Survey of Roman history, society, and culture from the death of Julius Caesar in 44 BCE to the reign of constantine in the early fourth century CE, with an emphasis on how the Roman Empire ruled.

HY 319. Late Antiquity and Early Middle Ages. 3 Hours.
This course explores the transition from the Classical Greco-Roman Mediterranean world to the Middle Ages. It begins with the conversion of the Roman Empire to Christianity. Then it explores the collapse of the Western Roman Empire and the continuation of the Eastern Empire (known to historians as the Byzantine Empire). It places Mohammad and the rise of Islam in its historical context and explores the impact of the early Islamic conquests. The course will finish around the year 800 with the reign of Charlemagne in the West and Islamic Abbasid Dynasty ruling in Baghdad.

HY 320. Political History From Roosevelt to Roosevelt. 3 Hours.
History of the period between 1900 and 1945, with emphasis on national politics.

HY 321. Political History Since FDR. 3 Hours.
A History of United States since 1945, with a special emphasis on national politics; includes Cold War domestic and foreign policy, the rights revolutions, changing political ideologies and identities, globalization and its effects.

HY 322. The Great Depression in Film. 3 Hours.
Examines the causes and effects of the Great Depression using both fictional and documentary films and required readings; students will analyze how Hollywood interpreted the lives of Americans during that period.

HY 325. Southern Politics in the 20th Century. 3 Hours.
The social and economic bases of Southern politics.

HY 326. Mansions, Mines, and Jim Crow. 3 Hours.
This course will study the history of Birmingham (1871-1950) by examining the few men who owned the mines and mills, the masses of men who worked for them, and the way that Jim Crow segregation kept the system from working.

HY 327. Southern Labor History. 3 Hours.
Unique conditions and people who formed Southern labor history. Changing contours of slave, industrial, and post-industrial labor force.

HY 329. US Women's Labor History. 3 Hours.
Role and influence of working women on American history as social and political force in creating work identity and culture.

HY 330. Middle East 550 BCE to 1453 CE. 3 Hours.
Survey course on the history of the Middle East from the rise of the Persian Empire to the Ottoman conquest of Constantinople. Course covers the Persian Empire, Alexander the Great’s conquests, Roman in the Middle East, the early Islamic Conquests, and the impact of the Crusades. The development of Judaism, Christianity, and Islam are emphasized.

HY 334. The World Since 1945. 3 Hours.
Events and trends from the end of the Second World War to the present, emphasizing the origins of the Cold War, decolonization, European integration, globalization, the rise of China, India, and Japan, the revolutions in Eastern Europe in 1989 and the collapse of communism in the Soviet Union, the third wave of democratization, Islamic fundamentalism, 9/11, and the international financial crisis of 2008-2009.

HY 336. Europe Since 1945. 3 Hours.
After the Nazi catastrophe, what was to be the future of Europe? After sketching the context of unparalleled death and destruction, this course focuses on European reconstruction on both sides of the Iron Curtain. While contrasting Eastern and Western regimes, course will also seek to compare postwar recovery plans, cultural aesthetics, and shared legacies borne out of the experience of World War II. Strong emphasis is given to questions of memory and national identity, the history of European integration in the West, and socialist interdependence in the East. After 1989, course will focus on the expansion of the European Union, alongside transnational cultural phenomena such as European soccer, environmentalism, spaces of memory, and the loaded question of Europe’s “boundaries” in the east and southeast.

HY 337. Eastern Europe 1600-1918. 3 Hours.
Before WWI, Eastern Europe consisted of a patchwork of ethnic groups ruled by four empires, which were ultimately destroyed with the rise of nationalism. This course explores this lost world of Eastern Europe in the Age of Empire and attends to four conceptual areas which dominated it: the concept and practice of Empire; the genesis, development, and triumph of nationalism; the contribution of the region’s diverse Jewish population; and questions surrounding the ultimate downfall of this world. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.
HY 338. Eastern Europe 1914-Present. 3 Hours.
This course traces drastic transformative processes which remade Eastern Europe during the violent twentieth century, including: nationalism, ethnic cleansing, genocide, the Holocaust, communism, the Cold War, and European integration. Virulent nationalism, Nazi atrocities, and the vicious revenge they inspired decimated the multiethnic world that had come before and forged ethnically homogenous nation-states with rigid frontiers. With previous understandings of property rights, moral responsibility, and neighborliness undermined, and with Soviet armies occupying the ruins that remained, communists and their unwitting nationalist allies found fertile ground for the establishment of command economies, which repressed the traumatized survivors of the Second World War and their descendants until 1989. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 339. The Holocaust. 3 Hours.
On the basis of extensive reading, this course introduces students to the central problems surrounding the Nazi genocide of European Jewry as well as the postwar memory debates which have resulted from it. We will examine Jewish culture, contributions, and integration in pre-1932 Europe, as well as after the Holocaust, and conclude by exploring the contemporary influence of the Holocaust, such as in Israeli national identity. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 341. US-Latin American Relations. 3 Hours.
A history of the multi-faceted, often troubled, relations between the U.S. and its nearest southern neighbors since the early nineteenth century. While touching on various aspects of those relations, it stresses the geopolitical aspect, focusing on conflicts that have arisen as a result of different interests and perceptions as well as basic power assymetries.

HY 342. Sex & Latin American Society. 3 Hours.
A social history of Latin America that traces the evolution of relations between the sexes since the colonial period and focuses on the role of gender (socially-constructed rather than biological differences between men and women), along with race, class, and other factors, in shaping the experiences of women in particular.

HY 343. Modern Latin America. 3 Hours.
A survey of Latin American history from c. 1810 to the present. Covers the vital era of political independence and, through “case studies” of major countries, examines key trends and developments that have shaped the region and its 21 nations since then. Major topics include 19th century nation-state formation and economic modernization; 20th century urbanization, nationalism, social revolution, military dictatorships, and democratization, including the rise of influential women’s (and feminist) movements.

HY 351. Continental Enlightenment 1680-1790. 3 Hours.
Ideas and politics during 18th century, focusing on Western Europe outside France; new ideas about society, religion, and government in Italian and German states.

HY 353. The Christians in History. 3 Hours.
Origins, development, and spread of Christianity from antiquity to the modern world.

HY 355. The Reformation. 3 Hours.
Issues and meanings of the Protestant and Catholic Reformations of the 16th and 17th centuries, with particular attention to intellectual, social, and political dimensions.

HY 357. Religion in Early Modern European History. 3 Hours.
Examines the theological, social and political upheavals that shaped religious life and how religion permeated early modern culture from the abstract philosophical debates to the most mundane daily activities.

HY 359. Social History of Crime. 3 Hours.
This course examines the various approaches historians have made to the social and cultural history of criminal violence. While the topic is one that applies to every human society, most of the material deals with Europe and the United States.

HY 360. The Celtic Fringe: Ireland, Scotland, Wales. 3 Hours.
History of other British nations: Irish, Scots, and Welsh. Internal development and relations with England.

HY 361. Britain and the Third World. 3 Hours.
British foreign policy, emphasizing Empire and British relations with peoples outside Europe.

HY 370. End of the U.S.S.R. 3 Hours.
An analysis of Gorbachev’s impact on the Soviet Union and the social and political forces he unleashed.

HY 371. Traditional East Asian History and Culture. 3 Hours.
An introduction to the histories and cultures of East Asia (China, Japan, Korea, and Southeast Asia) from ancient times to 1800.

HY 375. The Pacific War, 1931-1945. 3 Hours.
The military and political conflict between Japan, China, and the United States from the Manchurian Incident to the atomic bombings of Hiroshima and Nagasaki.

HY 376. Japan and the United States. 3 Hours.
A social and political history of relations between Japan, China and the U.S. from the Manchurian Incident to the atomic bombings of Hiroshima and Nagasaki.

HY 377. Modern East Asia. 3 Hours.
A political and social history of East Asia and East Asia’s relations with the West from 1800 to present.

HY 378. Untold Stories: Oral History. 3 Hours.
This course teaches the techniques and theories of oral history as a primary way to uncover untold or “hidden” histories of ordinary people. Students will conduct interviews of persons who participated in an aspect of history or who witnessed an important era.

HY 379. Women Rogues, Radicals and Reformers. 3 Hours.
This course looks at women as agents of their own history in the United States and of American society as a whole. It concentrates on how women have defined and used sexual politics, political radicalism, and reform agendas from the 1600’s to the 1960’s.

HY 388. History of American Medicine. 3 Hours.
Survey of patterns and trends in American medicine.

HY 389. Topics in African American History. 3 Hours.
Special studies of African American historical topics. May be repeated.

HY 390. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 391. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 392. Topics in History/SL. 3 Hours.
Special studies of historical topics. May be repeated. Service Learning.

HY 393. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.
HY 401. Honors Thesis. 3 Hours.
Independent research project for honors students in history, directed by faculty advisor. Course taken twice to produce thesis for Honors in History.

HY 402. Reacting to the Past. 3 Hours.
Reacting to the Past is an award winning pedagogy involving complex, collaborative role-playing games in which students seek to attain "victory objectives" while grappling with central tests in the history of ideas. This class will conduct several Reacting games that will allow students to explore key moments in European intellectual and cultural history.

HY 403. Colonial American History to 1765. 3 Hours.
Examines colonial North America, especially Britain's colonies, their social and cultural development, and the emergence of distinctive British American and African American identities.
Prerequisites: HY 120 [Min Grade: C]

HY 404. American Revolution. 3 Hours.
This course provides an introduction to the history and historiography of the American Revolution and the emergence of the United States as a nation-state with emphasis on the origins of the Revolution, the progress of the War for Independence, the social consequences of the Revolution, the creation of the American Republic, and the contested memories and meanings of the Revolution and American identity.

HY 405. War and Society in Early America. 3 Hours.
Examination of the history of warfare in colonial North America and the impact of war on colonial and native societies. Topics will include the "military revolution" and colonial America, war and culture, and wars for empire.
Prerequisites: HY 120 [Min Grade: C]

HY 406. Age of Jackson and the Market Revolution. 3 Hours.
Examines the first 50 years of the 19th Century, commonly known as the Age of Jackson or the Market Revolution, as an era of profound economic, political and the cultural revolutions that overwhelmed America as it became recognizably modern, industrial and democratic.

HY 407. Frontiers of Early America 1492-1815. 3 Hours.
Provides a broad introduction to the history and historiography of the origins, writing and ratification of the U.S. Constitution.
Prerequisites: HY 120 [Min Grade: C]

HY 408. Early Republic, 1789-1828. 3 Hours.
Integrates intellectual, political, and social origins and aspects of decades and the search for a national culture and identity.
Prerequisites: HY 120 [Min Grade: C]

HY 409. U.S. Constitutional History to 1877. 3 Hours.
Landmark cases in interpretation of Constitution against background of American history.
Prerequisites: HY 120 [Min Grade: C]

HY 410. U.S. Constitutional History Since 1877. 3 Hours.
Landmark cases in interpretation of Constitution against background of American history.
Prerequisites: HY 121 [Min Grade: C]

HY 411. The Antebellum South. 3 Hours.
South from post-revolutionary era through 1860, emphasizing social and cultural developments and myths.
Prerequisites: HY 120 [Min Grade: C]

HY 412. The American Civil War. 3 Hours.
Origins of secession and political, social, military, and diplomatic developments during war.
Prerequisites: HY 120 [Min Grade: C]

HY 413. Reconstruction in America. 3 Hours.
Myths and realities of Reconstruction from 1865 to 1877.
Prerequisites: HY 120 [Min Grade: C]

HY 414. The New South, 1877 to 1945. 3 Hours.
Political, economic, and urban development of South from Reconstruction to end of World War II.

HY 415. The Modern South, 1945 to Present. 3 Hours.
Social, political, and cultural developments of post-World War II South, including urbanization, civil rights, political party transformations, ethnic diversification, and federal public policy.

HY 416. The Fifties in America. 3 Hours.
Examines the decade that was the 1950's using documentaries and movies to identify major events and trends which includes the Korean War, political change, civil rights, teen culture and changing sexual mores.

HY 417. The Making of Modern America 1877-1920. 3 Hours.
Changing forms of industrialism and social problems created; Populism, Progressivism, and other reform movements of era.

HY 418. America in the 1920s and 1930s. 3 Hours.
American popular culture, political development, and economic change in period between two World Wars.
Prerequisites: HY 121 [Min Grade: C]

HY 419. The Second World War. 3 Hours.
Diplomatic and military history, with emphasis on world-historical changes brought about by World War II.

HY 420. Recent America 1945 to the Present. 3 Hours.
Economic, social, and political trends; history of Cold War.

HY 421. The Vietnam Wars, 1945-1975. 3 Hours.
A social, political, and military history of the French and American wars in Vietnam during the Cold War era.

HY 422. Ethnic Cleansing & Genocide 1912-2012. 3 Hours.
With strong attention to definitions and critical approaches to comparative history, this course examines the varied forms of forced population movements in recent European history, moving from precedents during and after World War I through the era of upheaval during and after World War II. A significant portion of the course examines the legacy of these movements after 1945 and then broadens discussion to examine global forced population movements in the postwar period (India/Pakistan, Palestine/Israel, Rwanda, etc.) and contemporary cases. Alongside intensive readings, it incorporates a critical research paper devoted to an instance or aspect of forced population movement.

HY 423. Southern Women: Image and Reality. 3 Hours.
Southern women's lives from colonial period into 20th century. Contrasts myths, particularly myth of belle on pedestal, with realities of women's lives.
Prerequisites: HY 120 [Min Grade: C]

HY 424. Emergence of Modern American 1877-1945. 3 Hours.
Focused study of the final appearance of an industrial economy and the different approaches to the government it generated, including the various reform movements (populism, socialism, progressivism, latent civil rights, women's movement, New Deal) that spun out of this experience.
Prerequisites: HY 121 [Min Grade: C]

HY 427. History of American Technology. 3 Hours.
Development and impact of new technology in U.S. from colonial period to present.
HY 428. Technology and American Life. 3 Hours.
Impact of technology on modern American life and culture; automobile, television, and computer.

HY 429. Workers in American Society. 3 Hours.
Seventeenth century artisans to contemporary factory and office workers, organized and unorganized; effect of industrial and technological revolution on American labor, society, and politics.

HY 430. U. S. Labor History. 3 Hours.
Examines the multi-faceted lives of American workers from the colonial period to the late 20th Century with emphasis on their changing lives as economics changed grew.

HY 431. American Film and Violent Society. 3 Hours.
History of violent movies in the United States from earliest silent films to new gangster films of Quentin Tarantino. Meaning of these films and what they say about American society.

HY 432. Labor History in Film. 3 Hours.
Examines and contrasts the imagery of working class life with documentary and film.

HY 435. American Urban History. 3 Hours.
Major patterns of urbanization and urban life in American history.

HY 438. The Changing American Landscape. 3 Hours.
History of way America looks and how it has changed from rural to urban, from farming to industrial landscape. Extensive field trips in Birmingham area.

HY 439. American Environmental History. 3 Hours.
Changing perspectives on American environment and major issues in environmental history.

HY 445. History of Women Latin America. 3 Hours.
Condition of Latin American women in historical perspective with reference to factors such as race, class, religion and ethnicity; Hispanic cultural attitudes that have shaped that condition over time.

HY 446. Nations of the Andes. 3 Hours.
A study of the vital Andean region of South America since the time of the Inca Empire, with special focus on the rise of the modern-day countries of Peru, Chile, Ecuador and Colombia. Explores their struggles, starting in the 19th century, to transform their ethnically diverse, highly stratified societies into modern and more inclusive nations. Major topics include the impact of 19th century liberal nation-building and agro-export economies as well as 20th century nationalism, "indigenismo", social conflict, populism, revolutionary movements and contemporary ethnic rights movements; also, the rise of illicit drug-production and trafficking.

HY 447. Modern Mexico. 3 Hours.
Examines the evolution of the Mexican nation and its relations with the rest of the world from c.1800 to the present. This includes the country's dramatic 19th century struggles for political unity and survival; the U.S.-Mexican War and origins of Mexicans' Yankeephobia; the epic Mexican Revolution of 1910 and its impact; and rise of modern Mexican nationalism as well as contemporary trends such as the restoration of electoral democracy since c. 2000.

HY 448. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 449. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 450. Topics in Ancient History. 3 Hours.
Special studies in ancient historical topics.

HY 451. History of Greece. 3 Hours.
Ancient Greece from prehistory to Alexander and Hellenistic Age.

HY 452. History of Rome. 3 Hours.
Ancient Rome from time of Etruscans through Republic and Empire until decline in the 4th century A.D.

HY 453. Clash of Civilizations. 3 Hours.
This course critically analyzes the conception of a clash between "eastern" and "western" civilizations through historical based case studies. Possible topics include the Greco-Persian wars, the early Islamic conquests, the Crusades, the Israeli-Palestinian Conflict, and the War on Terror.

HY 454. Topics in Middle Eastern History. 3 Hours.
Special studies in Middle Eastern historical topics.

HY 455. Renaissance and Reformation. 3 Hours.
From background of medieval society to birth of commercial, urban society; individualism; development of centralized territorial state; popular piety; humanism and art.

HY 456. Seventeenth-Century Europe: Absolutism, Revolution and Science. 3 Hours.
Evaluation of Seventeenth century through a study of the economy and society, statecraft and politics, warfare and the military revolution, the English civil war, the scientific revolution, and court life and absolutism.

HY 457. Nineteenth-Century Europe. 3 Hours.
National consolidation, imperialist adventure, and European society and politics, 1815-1914.

HY 458. Modern Europe. 3 Hours.
Europe as transformed by total war, economic dislocation, and rise of totalitarian movements; 1914 to present.

HY 459. Spain and the Spanish Inquisition. 3 Hours.
Examines early modern Spanish history covering the breakdown of the Spanish "convivencia," the rise of the Catholic kings and the absolutist state, the establishment of a Spanish colonial empire and its ultimate decline in power, as well as an examination of the Spanish Inquisition and its institutional development and function as a tool of the Spanish state.

HY 460. Ancient and Medieval Britain. 3 Hours.
Celtic, Anglo-Saxon, Roman, and Viking influences and evolution of kingdom from Norman Conquest to reign of Edward III.

HY 461. English History: 1307-1660. 3 Hours.
Social and political history of England from peasant uprisings of the late 14th century through Wars of the Roses, Tudor years, and civil war of the 17th century.

HY 462. Early Modern Britain. 3 Hours.
History of the nations of the British Isles from the civil wars of the 16th century to the beginning of the Victorian Age.

HY 463. Victorian Britain. 3 Hours.
Social and political history of 19th century Britain.

HY 464. Modern Great Britain. 3 Hours.
Problems facing Britain in the 20th century, including end of empire, economic decline, and political restructuring.

HY 465. French Enlightenment. 3 Hours.
French Enlightenment as intellectual and social phenomenon.

HY 466. The French Revolution. 3 Hours.
Revolution as social, political, and cultural event and its place in modern European history and historiography.
HY 467. Modern France 1815 - Present. 3 Hours.  
Economic, social and political history of France and the contentious issues of equality, democracy, and liberty between the Napoleonic era and the present.

HY 468. German Catastrophe 1815-2012. 3 Hours.  
After the collapse of Nazism, Germany was in ruins, truncated to a fraction of its former size, occupied and divided by hostile powers, and stained by the infamy of barbaric war crimes, most especially the Holocaust of Europe’s Jews. After first examining the rise of German power and influence in nineteenth and early twentieth-century Europe (with emphasis on German nationalism, ideological tensions, Jewish life, industrialization, and Germany’s relations with its Eastern neighbors), this course examines how defeat and resulting extremism after the First World War bred an environment in which the Nazis could seize power. Step by step, we will explore how an entirely new East Central Europe was forged in the terrible fires of 1938-1948, and we will examine how the resulting ruptures in memory and self-understanding wrought by this German Catastrophe were buried, manipulated, and confronted over the course of the Cold War and to the present day.

HY 469. Stalin and Stalinism. 3 Hours.  
The life and times of Joseph Stalin (1878-1953) and his impact on the development of the Soviet Union after Lenin’s death in 1924.  
Prerequisites: HY 102 [Min Grade: C] or HY 105 [Min Grade: C] or HY 121 [Min Grade: C]

HY 470. The Soviet Union Since 1953. 3 Hours.  
Soviet economic, political, and social trends since Stalins death in 1953.  
Prerequisites: HY 102 [Min Grade: C] or HY 105 [Min Grade: C] or HY 121 [Min Grade: C]

HY 471. Russian Intellectual History. 3 Hours.  
The emergence of modern Russian intellectual thought from Peter the Great (1682-1725) to the outbreak of the First World War with special emphasis on philosophy, literature, history and the issue of the Russian identity, as formulated by those who calim that Russia is part of the West and those who calim that it is a completely exceptional political and culture entity.

HY 472. Terror and Terrorism from French Revolution to Present. 3 Hours.  
History of terrorism from its advent during the French Revolution of 1789 to the global war of present time reviewing three main instances of terrorism in history; French Revolution from 1793 through 1794, Russia in the 1870a and 1880s and their civil war between 1918 and 1921, and the present-day conflicts involving the United States and the Middle East.

HY 473. The Cold War. 3 Hours.  
A survey and assessment of the dynamic relationship between the United States and its allies and the Soviet Union and the People’s Republic of China from the Second World to 1991 and the collapse of the USSR.  
This course emphasizes the domestic as well as the international sources of this conflict, starting with the Second World War and communist ideology. It will cover the rise and fall of the international communist order, highlighting the differences between Soviet and Chinese efforts to reform their post-Stalinist and post-Mao systems in the 1980s, and the US role in this process.

HY 475. Modern China. 3 Hours.  
China’s political, social and cultural history from the final decades of the Qing dynasty in the 19th century to its re-emergence as a major world power in the late 20th century.

HY 476. Japan to the 19th Century. 3 Hours.  
Japanese cultural history from its legendary beginnings to the final decades of the Tokugawa shogunate.

HY 477. Modern Japan. 3 Hours.  
Japanese political and cultural history from the Meiji Restoration to the present.

HY 478. Topics in European History. 3 Hours.  
Prerequisites in European History.

HY 480. Historic Preservation and Public Policy. 3 Hours.  
Ways to research, assess, and use historic buildings and architecture as a way to study history and inform public policy.

HY 481. Public History. 3 Hours.  
Various approaches to interest and inform general public of local and state history. Visits to public history sites around Birmingham area.

HY 482. Internship in Public History. 1-3 Hour.  
Individually designed program that allows students to work in local historic museums, archives, or other sites to gain professional experience in public history.

HY 483. Internship in Environmental Studies. 1-3 Hour.  
Individually designed program that places students in local environmental organizations, divisions of local businesses or government, or special projects to gain professional experience in preparation for an environmental career.

HY 484. Topics in African American History. 3 Hours.  
Prerequisites in African American historical topics.

HY 489. Topics in African American History. 3 Hours.  
Special studies in African American historical topics.

HY 490. Undergraduate Seminar in History. 3-6 Hours.  
Topic varies depending on professor.

HY 491. Directed Readings in History. 3 Hours.  
Individually designed course of reading in various fields.

HY 492. Directed Readings in History. 1-3 Hour.  
Individually designed course of reading in various fields.

HY 497. History Capstone. 3 Hours.  
This course requires history majors to demonstrate their competency by successfully completing a research project.  
Prerequisites: HY 300 [Min Grade: C]

HY 498. Topics in History. 3 Hours.  
Special studies of historical topics. May be repeated.

HY 499. Topics in History. 3 Hours.  
Special studies in historical topics. May be repeated.

Healthcare Quality Safety Courses

IB-International Business Courses

IB 495. Business Study Abroad. 3 Hours.  
Academic course of study in a business discipline which takes place in a foreign location. Sophomore standing, UAB GPA minimum 2.7 and permission of Collat School of Business faculty sponsor.  
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IBS-Integrative Biomedical Sci Courses

IEM-Information Egr Mgmnt Courses

IH-International Health Courses
INAB-Study Away - Arabic Courses
INAB 100. Study Away Arabic. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 100 level.

INAB 200. Study Away Arabic. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 200 level.

INAB 300. Study Away Arabic. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 300 level.

INAB 400. Study Away Arabic. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 400 level.

INAH-Study Away - Art History Courses
INAH 100. Study Away Art History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art and Art History as satisfying degree requirements at the 100 level.

INAH 200. Study Away Art History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art and Art History as satisfying degree requirements at the 200 level.

INAH 300. Study Away Art History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art History as satisfying Anthropology degree requirements at the 300 level.

INAH 400. Study Away Art History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art and Art History as satisfying degree requirements at the 400 level.

INAN-Study Away - Anthropology Courses
INAN 100. Study Away Anthropology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Anthropology as satisfying Anthropology degree requirements at the 100 level.

INAN 200. Study Away Anthropology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Anthropology as satisfying Anthropology degree requirements at the 200 level.

INAN 300. Special Topics in Anthropology Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Anthropology as satisfying Anthropology degree requirements at the 300 level.

INAN 400. Study Away Anthropology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Anthropology as satisfying Anthropology degree requirements at the 400 level.

INAR-Study Away - Art Studio Courses
INAR 100. Study Away Studio Art Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the Dept. of Art and Art History as equivalent to 100 level degree requirements.

INAR 200. Study Away Studio Art. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art and Art History as satisfying degree requirements at the 200 level.

INAR 300. Study Away Studio Art Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art and Art History as satisfying degree requirements at the 300 level.

INAR 400. Study Away Studio Art. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Art and Art History as satisfying degree requirements at the 400 level.

INBY-Study Away - Biology Courses
INBY 100. Study Away Biology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 100 level.

INBY 200. Study Away Biology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 200 level.

INBY 300. Special Topics in Biology Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated as equivalent to Biology 100 level degree requirements.

INBY 400. Study Away Biology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 400 level.

INCH-Study Away - Chinese Courses
INCH 100. Study Away Chinese. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 100 level.

INCH 200. Study Away Chinese. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 200 level.

INCH 300. Study Away Chinese. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 300 level.

INCH 400. Study Away Chinese. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 400 level.
INCM-Study Away - Comm Studies Courses
INCM 100. Study Away Communication Studi. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 100 level.
INCM 200. Study Away Communication Studi. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 200 level.
INCM 300. Study Away Communication Studi. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 300 level.
INCM 400. Study Away Communication Studi. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 400 level.

 INCY-Study Away - Chemistry Courses
INCY 100. Study Away Chemistry. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Chemistry as satisfying degree requirements at the 100 level.
INCY 200. Study Away Chemistry. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Chemistry as satisfying degree requirements at the 200 level.
INCY 300. Study Away Chemistry. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Chemistry as satisfying degree requirements at the 300 level.
INCY 400. Study Away Chemistry. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Chemistry as satisfying degree requirements at the 400 level.

INDC-Study Away - Digital Comm Courses
INDC 100. Study Away Digital Community. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Digital Community Studies as satisfying degree requirements at the 100 level.
INDC 200. Study Away Digital Community. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Digital Community Studies as satisfying degree requirements at the 200 level.
INDC 300. Study Away Digital Community. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Digital Community Studies as satisfying degree requirements at the 300 level.
INDC 400. Study Away Digital Community. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Digital Community Studies as satisfying degree requirements at the 400 level.

INEC-Study Away - Economics Courses
INEC 100. Study Away Economics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Economics as satisfying degree requirements at the 100 level.
INEC 200. Study Away Economics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Economics as satisfying degree requirements at the 200 level.
INEC 300. Study Away Special Topics in Economics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Economics as satisfying degree requirements at the 300 level.
INEC 400. Study Away Special Topics in Economics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Economics as satisfying degree requirements at the 400 level.

INED-Study Away - Education Courses
INED 100. Study Away Education. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB School of Education as satisfying degree requirements at the 100 level.
INED 200. Study Away Education. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB School of Education as satisfying degree requirements at the 200 level.
INED 300. Study Away Education. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB School of Education as satisfying degree requirements at the 300 level.
INED 400. Study Away Education. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB School of Education as satisfying degree requirements at the 400 level.

INEH-Study Away - English Courses
INEH 100. Study Away English. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of English as satisfying degree requirements at the 100 level.
INEH 200. Study Away English. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of English as satisfying degree requirements at the 200 level.
INEH 300. Special Topics in English Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of English as satisfying degree requirements at the 300 level.
INEH 400. Special Topics in English Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of English as satisfying degree requirements at the 400 level.
INEV-Study Away - Env Studies Courses

INEV 100. Study Away Environmental Scien. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 100 level.

INEV 200. Study Away Environmental Scien. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 200 level.

INEV 300. Study Away Environmental Scien. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 300 level.

INEV 400. Study Away Environmental Scien. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Biology as satisfying degree requirements at the 400 level.

INFR-Study Away - Finance Courses

INFR 100. Study Away French. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 100 level.

INFR 200. Study Away French. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 200 level.

INFR 300. Study Away French. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 300 level.

INFR 400. Study Away French. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 400 level.

INGN-Study Away - German Courses

INGN 100. Study Away German. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 100 level.

INGN 200. Special Topics in German Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 200 level.

INGN 300. Special Topics in German Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 300 level.

INGN 400. Special Topics in German Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 400 level.

INHY-Study Away - History Courses

INHY 100. Study Away History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of History as satisfying degree requirements at the 100 level.

INHY 200. Study Away History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of History as satisfying degree requirements at the 200 level.

INHY 300. Special Topics in History Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of History as satisfying degree requirements at the 300 level.

INHY 400. Study Away History. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of History as satisfying degree requirements at the 400 level.

INIS-Study Away - Intl Stud Courses

INIS 100. Study Away International Studi. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of International Studies as satisfying degree requirements at the 100 level.

INIS 200. Study Away International Studi. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of International Studies as satisfying degree requirements at the 200 level.

INIS 300. Special Topics in International Studies Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of International Studies as satisfying degree requirements at the 300 level.

INIS 400. Special Topics in International Studies Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of International Studies as satisfying degree requirements at the 400 level.

INIT-Study Away - Italian Courses

INIT 100. Study Away Italian. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 100 level.

INIT 200. Study Away Italian. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 200 level.

INIT 300. Special Topics in Italian Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 300 level.

INIT 400. Study Away Italian. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 400 level.
INJP-Study Away - Japanese Courses

INJP 100. Study Away Japanese. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 100 level.

INJP 200. Special Topics in Japanese Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 200 level.

INJP 300. Special Topics in Japanese Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 300 level.

This course takes place via reciprocal exchange and has been approved by the UAB Department of Foreign Languages as equivalent to JPA 390 (See Undergraduate Catalog for description).

INJP 400. Study Away Japanese. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages & Literatures as satisfying degree requirements at the 400 level.

INMC-Study Away - Mass Comm Courses

INMC 100. Study Away Mass Communications. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 100 level.

INMC 200. Study Away Mass Communications. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 200 level.

INMC 300. Special Topics in Mass Communications Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 300 level.

INMC 400. Study Away Mass Communications. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Communication Studies as satisfying degree requirements at the 400 level.

INME-Study Away - Mech Egr Courses

INME 100. Study Away Mechanical Eng. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Mechanical Engineering as satisfying degree requirements at the 100 level.

INME 200. Study Away Mechanical Eng. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Mechanical Engineering as satisfying degree requirements at the 200 level.

INME 300. Special Topics in Mechanical Engineering Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Mechanical Engineering as satisfying degree requirements at the 300 level.

INME 400. Study Away Mechanical Eng. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Mechanical Engineering as satisfying degree requirements at the 400 level.

INMG-Study Away - Management Courses

INMG 100. Study Away Management. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Management as satisfying degree requirements at the 100 level.

INMG 200. Study Away Management. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Management as satisfying degree requirements at the 200 level.

INMG 300. Study Away Management. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Management as satisfying degree requirements at the 300 level.

INMG 400. Special Topics in Management Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Management as satisfying degree requirements at the 400 level.

INMK-Study Away - Marketing Courses

INMK 100. Study Away Marketing. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Marketing as satisfying degree requirements at the 100 level.

INMK 200. Study Away Marketing. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Marketing as satisfying degree requirements at the 200 level.

INMK 300. Special Topics in Marketing Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Marketing as satisfying degree requirements at the 300 level.

INMK 400. Study Away Marketing. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Marketing as satisfying degree requirements at the 400 level.

INMU-Study Away - Music Courses

INMU 100. Study Away Music. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Music as satisfying degree requirements at the 100 level.

INMU 200. Study Away Music. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Music as satisfying degree requirements at the 200 level.

INMU 300. Study Away Music. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Music as satisfying degree requirements at the 300 level.
INMU 400. Study Away Music. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Music as satisfying degree requirements at the 400 level.

INPC-Study Away - Physics Courses
INPC 100. Study Away Physics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Physics as satisfying degree requirements at the 100 level.
INPC 200. Study Away Physics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Physics as satisfying degree requirements at the 200 level.
INPC 300. Study Away Physics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Physics as satisfying degree requirements at the 300 level.
INPC 400. Study Away Physics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Physics as satisfying degree requirements at the 400 level.

INPE-Study Away - Phys Educ Courses
INPE 100. Special Topics in Physical Education Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Human Studies as satisfying degree requirements at the 100 level.

INPH-Study Away Philosophy Courses
INPH 100. Study Away Philosophy. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Philosophy as satisfying degree requirements at the 100 level.
INPH 200. Study Away Philosophy. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Philosophy as satisfying degree requirements at the 200 level.
INPH 300. Study Away Philosophy. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Philosophy as satisfying degree requirements at the 300 level.
INPH 400. Study Abroad: Special Topics in Physics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Philosophy as satisfying degree requirements at the 400 level.

INPS-Study Away - Polit Sci Courses
INPS 100. Study Away Political Science. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Government as satisfying degree requirements at the 100 level.
INPS 200. Study Away Political Science. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Government as satisfying degree requirements at the 200 level.
INPS 300. Study Away Political Science. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Government as satisfying degree requirements at the 300 level.
INPS 400. Study Away Political Science. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Government as satisfying degree requirements at the 400 level.

INPY-Study Away - Psychology Courses
INPY 100. Study Away Psychology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Psychology as satisfying degree requirements at the 100 level.
INPY 200. Study Away Psychology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Psychology as satisfying degree requirements at the 200 level.
INPY 300. Study Away Psychology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Psychology as satisfying degree requirements at the 300 level.
INPY 400. Study Away Psychology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Psychology as satisfying degree requirements at the 400 level.

INSC-Study Away - Sociology Courses
INSC 100. Study Away Sociology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Sociology as satisfying degree requirements at the 100 level.
INSC 200. Study Away Sociology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Sociology as satisfying degree requirements at the 200 level.
INSC 300. Study Away Sociology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Sociology as satisfying degree requirements at the 300 level.
INSC 400. Study Away Sociology. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Sociology as satisfying degree requirements at the 400 level.

INSP-Study Away - Spanish Courses
INSP 100. Study Away Spanish. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 100 level.
INSP 200. Study Away Special Topics in Spanish. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Foreign Languages and Literatures as satisfying degree requirements at the 200 level.

INSP 300. Study Away Political Science. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Government as satisfying degree requirements at the 300 level.
INSP 400. Study Away Political Science. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the UAB Department of Government as satisfying degree requirements at the 400 level.
INSP 300. Study Away Spanish. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated
by the UAB Department of Foreign Languages and Literatures as
satisfying degree requirements at the 300 level.

INSP 400. Study Away Spanish. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated
by the UAB Department of Foreign Languages and Literatures as
satisfying degree requirements at the 400 level.

INTL-Study Abroad Courses

INTL 100. Special Topics in Study Away. 3 Hours.
This course takes place via reciprocal exchange and has been evaluated
by the appropriate UAB Academic Department as satisfying degree
requirements at the 100 level.

INTL 101. Assessing Study Away. 15 Hours.
This course will take place both on the UAB Campus and while students
are on exchange through Study Abroad, the National Student Exchange,
or The Washington Center as a means of allowing students to reflect
upon their study away experiences. This is a Pass/No Pass course that
will take place at least 50% online. Students' participation will allow UAB
to assess the learning outcomes of study away.

INTL 200. Special Topics in Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated
by the appropriate UAB Academic Department as satisfying degree
requirements at the 200 level.

INTL 300. Special Topics in Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated
by the appropriate UAB Academic Department as satisfying degree
requirements at the 300 level.

INTL 400. Special Topics in Study Away. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated
by the appropriate UAB Academic Department as satisfying degree
requirements at the 400 level.

INTR-Career Serv Internshp Exp Courses

INTR 011. Internship Work Prog Full-time. 0 Hours.
In order for an Internship (INTER) experience to be recognized by
the University and posted to an academic transcript, a student must
register for internship prior to the term he/she plans to participate. If a
student fails to register for internship by the last day to add classes,
as published each term, the internship experience will not be posted
to his/her transcript retroactively. Failure to register for internship may
affect a student’s status at UAB as well as eligibility for loan deferment
and/or health insurance. Students who are registered for internship
may consult their academic department to determine if they are eligible
to receive academic credit for their experience. For more information,
please contact the internship program in Career Services, 934-4324.

INTR 012. Internship Work Prog Part-time. 0 Hours.
In order for an Internship (INTER) experience to be recognized by
the University and posted to an academic transcript, a student must
register for internship prior to the term he/she plans to participate. If a
student fails to register for internship by the last day to add classes,
as published each term, the internship experience will not be posted
to his/her transcript retroactively. Failure to register for internship may
affect a student’s status at UAB as well as eligibility for loan deferment
and/or health insurance. Students who are registered for internship
may consult their academic department to determine if they are eligible
to receive academic credit for their experience. For more information,
please contact the internship program in Career Services, 934-4324.

IS-Information Systems Courses

IS 103. Applied Information Technology. 3 Hours.
Use of microcomputers, business applications in office automation,
analysis of business problems, and retrieval and presentation of
information.
Prerequisites: MA 105 [Min Grade: C] (Can be taken Concurrently) or
MA 107 [Min Grade: C] or (A02 23 and HSCG 3.50) or (A02 24 and
HSCG 3.00) or (A02 25 and HSCG 2.50) or (A02 26 or S02 540 and
HSCG 3.50) or (S02 560 and HSCG 3.00) or (S02 580 and HSCG 2.50)
or S02 600 or MAC1 17

IS 204. Introduction to Business Programming. 3 Hours.
An introductory course addressing the concepts, structures, and use of
an event-driven programming language to implement business solutions.
Emphasis is placed on developing general problem-solving strategies
and implementing solutions through algorithm development.
Prerequisites: IS 103 [Min Grade: C]

IS 295. Programming Logic. 3 Hours.
Provides an introduction to the technical aspects of programming using
common programming logic concepts and object-oriented programming
concepts.

IS 301. Introduction to Database Management Systems. 3 Hours.
An introductory course on database management systems. Emphasis is
placed on providing students with the fundamental knowledge necessary
to model business data needs, design logical data models, and design,
implement, and use of a physical database in application development.
Prerequisites: IS 321 [Min Grade: C]

IS 302. Telecommunications Management. 3 Hours.
A study of data communications technologies used for business. The
technologies include local and wide area networks, as well as telephony.
Network management and security are also emphasized.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 303. Information Systems. 3 Hours.
Theory and application of management information systems. Planning,
design, development, and implementation of and strategic issues in
information systems, World Wide Web, Internet, and knowledge-based
systems. Junior standing required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 305. Introduction to Application Development. 3 Hours.
A course addressing the concepts, structures, and use of object-oriented
problem solving and the C# programming language. Emphasis is placed
on developing general problem-solving strategies and implementing
solutions through algorithm development using object class models and
C#.
Prerequisites: (IS 204 [Min Grade: C] and IS 301 [Min Grade: C] (Can be
taken Concurrently) and GPAT and GPAO 2.00)
IS 321. Systems Analysis. 3 Hours.
Focuses on the planning, decision making tasks and requisite skills necessary for the analysis of information systems.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 383. Current Programming Languages. 3 Hours.
A course addressing the concepts, structures, and features of a programming language currently in demand by area businesses and organizations. Emphasis is placed on developing general problem solving strategies and implementing solutions through algorithm development using the programming language.
Prerequisites: (IS 295 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00

IS 413. Information Security Management. 3 Hours.
Develop an understanding of key information security concepts. Develop an understanding of how people, technology and organizational policies should be developed and managed to safeguard an organization’s information resources. Learn how to manage under uncertainty and risk. Develop policies and procedures to make information systems secure. Learn how to adult and recover from security breaches.
Prerequisites: (IS 295 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00

IS 415. Social Media & Virtual. 3 Hours.
This course focuses on how social media and virtual communities are changing business in fundamental ways. The course helps students gain practical facility in the use of social media tools and learn meta-skills like how to use new social media tools, how to use filters to make sense of social media, and how to curate news and reports in a manner that contributes to business knowledge and intellect.

IS 416. Web Analytics. 3 Hours.
The Web Analytics course introduces technologies and tools used to realize the full potential of web sites. This course focuses on collection and use of web data such as web traffic and visitor information to design web sites that will enable firms to acquire, convert and retain customers.

IS 417. Introduction to Business Intelligence. 3 Hours.
This course covers topics of knowledge management and business intelligence from an organizational IT perspective. The content of the course includes discussion of and readings on the nature of knowledge; knowledge discovery, generation, capture, transfer, sharing, and application; and includes discussion of the core IT capabilities necessary to deliver Business Intelligence in organizations. The development and use of data warehouses and data marts to support business analytics is discussed.

IS 464. IS Internship. 3 Hours.
Work experience enabling students to better integrate academic knowledge with practical applications by exposing to accounting practice and the business environment. 2.50 GPA in IS courses and permission of instructor required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 472. Forensic Accounting and Information Tech Auditing. 3 Hours.
Introduction to the practice of forensic accounting and its relationship to auditing in settings characterized by extensive reliance on information technology. An emphasis on audit methodology as applied to accounting information systems.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 473. Fraud Examination. 3 Hours.
Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse--its origins, perpetration, prevention, and detection.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 474. Forensic Accounting Practicum. 1-3 Hour.
Work experience requiring the application of forensic accounting concepts and methods. Senior standing and permission of instructor required.
Prerequisites: (IS 472 [Min Grade: C] and IS 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPA and GPAO 2.00) or (IS 472 [Min Grade: C] and IS 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPA 2.00 and GPAO 2.00)

IS 491. Current Topics in Information Systems. 3 Hours.
A study of selected current developments in information systems emphasizing development and managerial implications. Permission of instructor required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 499. Directed Readings. 1-3 Hour.
Readings and independent study in selected areas.

ITL-Italian Courses

ITL 101. Introductory Italian I. 3 Hours.
Essentials of Italian language and culture needed for proficient communication. Includes basic exercises in listening comprehension, speaking, writing and reading. Conducted in Italian. (CORE AREA II).

ITL 102. Introductory Italian II. 3 Hours.
Continuation of ITL 101. Conducted in Italian. (Core Area II).
Prerequisites: ITL 101 [Min Grade: D]

ITL 190. Study Abroad: Italian. 1-6 Hour.
Approved novice level study abroad program in an Italian-speaking country.

ITL 201. Intermediate Italian I. 3 Hours.
This course aims to improve student linguistic and cultural fluency necessary for studying, appreciating and living in the Italian-speaking world. The class gives the student the essential linguistic and critical thinking skills needed to interact in Italian-speaking cultures as well as to provide opportunities for language practice and cultural awareness. Emphasis will be placed on oral production, written communication, quantitative analysis so that students might: Converse in Italian about selected information based on chapter topics, correspond in written Italian to communicate thoughts and feelings, read passages to gain cultural awareness of the Italian-speaking world, compare Italian-speaking cultures in Italy with those in the Americas, gradually increase speed in spoken Italian using a variety of oral techniques, connect the study of Italian w/other disciplines, and recognize the contributions of Italian-speaking citizens to the global community. Topics may include: Business, Italy's Economy, Sports, Geography, Tourism, Art and Theater, Health and Ecology.

ITL 290. Study Abroad. 1-6 Hour.
Approved program in an Italian-speaking country.

ITL 299. Directed Readings in Italian. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Italian students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Italian language and culture. Intermediate proficiency in reading, writing, listening and speaking Italian is the targeted outcome.

ITL 390. Study Abroad. 1-6 Hour.
Approved upper level study abroad program in an Italian-speaking country. Permission of Department Chair and Study Abroad Director.
ITS-International Studies Courses

ITS 101. Introduction to International Studies. 3 Hours.
A survey of the problems and practice of global cooperation and conflict. Particular attention is paid to issues of global power, wealth and social justice.

ITS 110. Directed Readings in International Studies. 1-3 Hour.
Critique of current popular works in International Studies. Prerequisite: permission of ITS director.

ITS 223. International Study Abroad. 3 Hours.
Independent study done in International setting in conjunction with non-UAB academic program. Prerequisite: permission of ITS Director.

ITS 229. International Study Abroad. 3 Hours.
Current events in international setting. Part of UAB Study Away Program. Permission of ITS director.

ITS 250. Special Topics. 3 Hours.
Topics in world geography and international issues. Prerequisite: permission of ITS director.

JPA-Japanese Courses

JPA 101. Introductory Japanese I. 3 Hours.
Essentials of language and culture needed for proficient communication. Includes basic exercises in listening comprehension, speaking, writing, and reading. Conducted in Japanese. (CORE AREA II).

JPA 102. Introductory Japanese II. 3 Hours.
Continuation of JPA 101. Conducted in Japanese.
Prerequisites: JPA 101 [Min Grade: D]

JPA 190. Study Abroad. 1-6 Hour.
Approved novice level study abroad program in Japan. Permission of Department Chair required.

JPA 201. Intermediate Japanese I. 3 Hours.
Prerequisites: JPA 102 [Min Grade: D]

Continuation of JPA 201. Conducted in Japanese. (CORE AREA II).
Prerequisites: JPA 201 [Min Grade: D]

JPA 203. Intermediate Japanese Language & Culture I. 3 Hours.
This course aims at improving students' linguistic and cultural fluency necessary for functioning in Japanese. Class activities will consist of communicative exercises such as role-playing. While emphasis will be placed on oral skills, attention will also be given to the written Japanese that one encounters in daily life, particularly in signage and forms. Topics may include: Conversational Japanese in such settings as restaurant, store, public transportation, airport, post office, hospital, home-stay, hotel, and local attractions.
Prerequisites: JPA 102 [Min Grade: D]

JPA 204. Intermediate Japanese Language & Culture II. 3 Hours.
This course focuses on developing students' reading and writing skills to increase Japanese literacy. It will also expand students' vocabulary, grammatical understanding, listening and speaking. Topics may include: Examples will be taken from authentic popular literature, manga and anime, folktales, letters, e-mails and songs. Students will learn how to write basic compositions and make speeches.
Prerequisites: JPA 202 [Min Grade: C]

JPA 290. Japanese for Study Abroad. 1-6 Hour.
This study-abroad Japanese course aims at improving students' oral fluency. It will help students develop intermediary conversational skills as they study in total immersion. The emphasis will be on efficient target language production at the intermediate level, as well as an oral and comprehension skills, communicative strategies, and the acquisition of vocabulary relating to a variety of domains. The course content will also include discussion and analysis of current cultural topics. JPA 290 will be conducted entirely in Japanese. Permission of department chair required.

JPA 299. Directed Readings in Japanese. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Japanese students. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Japanese language and culture. Intermediate proficiency in reading, writing, listening and speaking Japanese is the targeted outcome. Prerequisites: JPA 202 or equivalent.
Prerequisites: JPA 202 [Min Grade: C]

JPA 390. Study Abroad. 1-6 Hour.
Approved upper-level study abroad program in a Japanese-speaking country. Permission of Department Chair and Study Abroad Director.

Intl Scholar Student Service Courses

ISSS 101. International Student Seminar. 0 Hours.

JHS-Joint Health Sciences Courses
JPA 399. Directed Readings: Japanese. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Japanese language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of the Japanese language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Japanese is the targeted outcome. Permission of the Department Chair required.
Prerequisites: JPA 201 [Min Grade: C]

JS-Justice Sciences Courses

JS 100. Introduction to the Criminal Justice System. 3 Hours.
Introduction to criminal justice as a system consisting of interactions among three main components: police, courts, and corrections and the processes involving those components.

JS 101. Crime and Criminality. 3 Hours.
Examination of the causes and consequences in society of crime/delinquency, including theoretical explanations, sources of data on crime/delinquency, and efforts at controlling the behavior.

JS 110. Introduction to Forensic Science. 3 Hours.
Overview of the major components of forensic science including death investigation, toxicology, osteology, questioned documents, law, and criminalistics.

JS 115. Comparative Criminal Justice Systems. 3 Hours.
Analysis of police, judicial, and correctional components found in the world's four major legal systems: Common Law, Islamic, Napoleonic and Socialist.

JS 120. Introduction to Statistics. 3 Hours.
Introduction to basic statistical theory and analysis. Course emphasizes computation, units of measurement, and evaluation of quantitative assertions; interpretation of quantitative data; use of quantitative data for problem-solving; and communication of information using numbers/words appropriate for the audience. Quantitative Literacy is a significant component of this course (QEP).

JS 125. Introduction to Forensic Psychology. 3 Hours.
Overview of issues involving the intersection of law and psychology. Focus on role of clinical assessment of competency, scientific jury selection, expert witnesses in court, punishment and sentencing, and related issues.

JS 150. Foundations of Law. 3 Hours.
Examination and analysis of the evolution, function, and sources of law and legal systems in Western culture.

JS 160. Introduction to Private Security. 3 Hours.
Survey of the field of private security, including organizational, administrative, operational, and liability issues common to it.

JS 220. Police in America: An Overview. 3 Hours.
Introduction to the history and evolution of modern law enforcement in the United States, including the role and functions of police in the community.
Prerequisites: JS 100 [Min Grade: C](Can be taken Concurrently)

JS 230. The Judicial Process in America: An Overview. 3 Hours.
Introduction to the structure and function of American courts, including judicial selection and behavior, the prosecution function, jury system, and the role of lawyers.
Prerequisites: JS 150 [Min Grade: C], JS 100 [Min Grade: C] and JS 150 [Min Grade: C]

JS 240. Corrections in America: An Overview. 3 Hours.
Introduction to history and evolution of probation, prisons, parole, and community-based programs for adult and juvenile offenders.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C]

JS 250. Criminalistics: An Overview. 3 Hours.
Introduction to identification and application of major types of physical trace evidence in criminal cases involving analysis and comparison. Laboratory component included; Laboratory fee is charged.
Prerequisites: JS 110 [Min Grade: C]

JS 300. Research Methods in Criminal Justice. 3 Hours.
Introduction to ideas, techniques, and problems associated with social research with an emphasis on criminal justice/criminology applications. Writing assignments emphasize ability to make a logical argument and respond to counter claims; incorporating outside sources into written materials; and use conventions appropriate for the discipline. Writing is a significant component of this course (QEP).
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 305. Religion and Crime. 3 Hours.
This course is designed to introduce students to research on the impact of religious institutions and values on multiple aspects of public policy and life. Students will explore the impact of religion on law creation, crime-control attitudes, criminal and deviant behaviors, provision of social services, politics, and race/ethnic relations.

JS 307. Crime and Everyday Life. 3 Hours.
Examines everyday aspects of crime, including different forms of crime, media involvement, crime patterns, and policy responses.

JS 320. Police Organization and Administration. 3 Hours.
Analysis of organizational and administrative structure and function of police departments in the U.S.
Prerequisites: JS 100 [Min Grade: C] or CJ 100 [Min Grade: C] or (CJ 101 [Min Grade: C] and JS 220 [Min Grade: C])

JS 321. Police-Community Relations. 3 Hours.
Overview and analysis of historical and contemporary relationship between police agencies and the public; legal issues; analysis of crime prevention programs, community participation, and police discretion.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and (CJ 220 [Min Grade: C] or JS 220 [Min Grade: C])

JS 322. Legal Aspects of Private Security. 3 Hours.
Introduction to and examination of critical legal aspects of private security, especially liability issues.
Prerequisites: JS 160 [Min Grade: C]

JS 330. Criminal Law. 3 Hours.
Analysis of the development of criminal law, including legal elements of a crime, defenses in criminal cases, appellate case analysis, and legal terminology.
Prerequisites: JS 230 [Min Grade: C] and (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) or (JS 150 [Min Grade: C])

JS 331. Criminal Procedure. 3 Hours.
Introduction to legal rules relating to the criminal process from investigation through punishment.
Prerequisites: JS 100 [Min Grade: C]

JS 332. Criminal Evidence. 3 Hours.
Examination of the system of rules and standards, both state and federal, by which admission of proof at criminal trial is regulated.
Prerequisites: JS 230 [Min Grade: C] and (CJ 100 [Min Grade: C] or JS 100 [Min Grade: C] or JS 150 [Min Grade: C])
JS 333. Trial Advocacy. 3 Hours.
Overview of preparations for civil and criminal litigation including courtroom procedure, evidence, and the art of advocacy.
Prerequisites: JS 230 [Min Grade: C] and (CJ 100 [Min Grade: C] or JS 100 [Min Grade: C] or JS 150 [Min Grade: C])

JS 334. Legal Research and Writing. 3 Hours.
Overview of elements of legal research and writing with an emphasis on developing and writing a legal brief, locating sources of legal information and logically and persuasively applying the information in an argumentative fashion.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 230 [Min Grade: C]

JS 335. Mediation. 3 Hours.
Examination of mediation as a specific form of alternative dispute resolution (ADR), including its history, development, and processes.
Prerequisites: JS 150 [Min Grade: C], JS 230 [Min Grade: C] and (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C] or JS 150 [Min Grade: C])

JS 336. Criminal Investigation: Techniques and Analysis. 3 Hours.
Examination of both technical and analytical aspects of the criminal investigative process.

JS 337. Introduction to the Intelligence Community. 3 Hours.
Overview of the Office of the Director of National Intelligence (ODNI) and its role in the intelligence community; Examination of the development and expansion of state and local fusion centers and first responder roles in evolving federal, state, and local intelligence community enterprise.

JS 338. Intelligence Oversight and Legal Controls. 3 Hours.
Historical development of intelligence oversight from the 1940s to the present; intelligence abuses; expansion of executive branch authority post-September 11, 2001.
Prerequisites: JS 337 [Min Grade: C]

JS 339. Methodologies in Intelligence Analysis. 3 Hours.
Introduction to analytical tactics, techniques, and procedures used by and in the intelligence community.
Prerequisites: JS 337 [Min Grade: C]

JS 340. Terrorism and the Intelligence Community. 3 Hours.
Examines application of the intelligence cycle (collection, analysis, management & dissemination of information) to the war on terrorism using case studies of successes and failures.
Prerequisites: JS 337 [Min Grade: C]

JS 341. Correctional Institutions. 3 Hours.
Introduction to prisons, jails, and juvenile institutions in the U.S.; evolution of penology and correctional change strategies; inmate social system; prison stress, violence, and reform.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 240 [Min Grade: C]

JS 342. Probation and Parole. 3 Hours.
Analysis of history, structure, and function of probation and parole systems in the United States; pre-sentence investigations; offender selection and classification; offender supervision; and agency administration.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 240 [Min Grade: C]

JS 343. Community-Based Corrections. 3 Hours.
Examination of contemporary redefinition of correctional functions emphasizing development and use of community resources; diversion of offenders from criminal justice system; nontraditional correctional programs.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 240 [Min Grade: C]

JS 344. Science and Technology in the Intelligence Community. 3 Hours.
Introduction to, and critical examination of, science and technology capability of each member agency within the intelligence community.
Prerequisites: JS 337 [Min Grade: C]

JS 350. Advanced Criminalistics. 3 Hours.
Examination of advanced criminalistics, including biological or genetic properties of evidence, trace evidence analytics, and firearm and tool-mark examinations.
Prerequisites: JS 110 [Min Grade: C]

JS 351. Forensic Science Lab I. 3 Hours.
Basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on trace evidence.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 352. Forensic Science Laboratory III. 3 Hours.
Basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on biological materials.
Prerequisites: JS 110 [Min Grade: C] and CJ 110 [Min Grade: C]

JS 360. Criminology. 3 Hours.
Identification and assessment of early and modern theories concerning the causes of crime in society.
Prerequisites: JS 101 [Min Grade: C] or CJ 101 [Min Grade: C]

JS 362. Victimology. 3 Hours.
Examination of the criminal-victim relationship and societal reaction to victims including victim services, restitution, and compensation.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and (CJ 101 [Min Grade: C] or JS 101 [Min Grade: C])

JS 380. Media, Crime & Justice. 3 Hours.
Examination of issues in crime and justice as depicted in popular media, including motion pictures, television, video, and other media.

JS 390. The Death Penalty in America. 3 Hours.
Overview of capital punishment in America including its history and justification, major Supreme Court rulings, current issues, and future directions.

JS 400. Drugs and Society. 3 Hours.
This course teaches students the pharmacological effects of and different categories of drugs. Different theories of drug use are discussed as well as the historical development of drug laws. Various harms associated with drug use are discussed as well as the consequences of drug prohibition. Lastly, students are expected to understand the different methods of drug research.

JS 402. Introduction to Computer Forensics. 3 Hours.
Introduction to the use of analytical and investigative techniques in criminal or civil litigation to identify, collect, examine and preserve evidence/information magnetically stored or encoded.
JS 403. Restorative Justice. 3 Hours.
Introduction to, and analysis of, movement in criminal justice to institutionalize peaceful approaches to harm, problem-solving and violations of legal and human rights. Includes discussion of specific programs, critical evaluation of these programs, and analysis of future directions of the movement.

JS 404. Serial Killers. 3 Hours.
Examination of the psychology and sociology of serial killers, including case studies, agency responses and related issues.

JS 408. Juvenile Delinquency. 3 Hours.
Introduction to the nature, scope, and causes of illegal behavior by juveniles, and societal responses to that behavior.

JS 410. Criminal Justice Ethics. 3 Hours.
Analysis of systems of ethics and their applicability to problems in the administration of the justice system including those facing police officials, lawyers, judges, and correctional professionals. Writing and Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 220 [Min Grade: C] and JS 230 [Min Grade: C] and JS 240 [Min Grade: C] and JS 300 [Min Grade: C]

JS 411. Juvenile Justice System. 3 Hours.
Introduction to the evolution and operation of specialized agencies and procedures to address juvenile law-breaking, including emerging problems and solutions.

JS 412. Juvenile Law. 3 Hours.
Review and analysis of emerging statutory and case law in American juvenile justice.

JS 413. The Legal Profession. 3 Hours.
Weekly seminars conducted by accomplished practitioners in civil litigation, criminal prosecution, criminal defense, labor and employment law, products liability, domestic relations, military justice, environmental, indigent legal aid, and alternative dispute resolution (ADR) techniques. JS 150 and JS 230 are suggested prerequisites for this course.

JS 415. Investigating Online Crimes. 3 Hours.
Introduction to cyber investigative techniques involving focused analysis of email and websites; examination of legal process and preparing evidence in cyber crime cases; rules concerning introduction of digital evidence.
Prerequisites: JS 402 [Min Grade: C]

JS 424. Serial Killers in Cross-National Settings. 3 Hours.
Examines serial homicide in cross-national settings including offender disorders; crime scene analysis; significance of victims; and offender classification process.

JS 434. Mock Trial Competition. 3 Hours.
Represent UAB as member of Mock trial Team in invitational, regional, and national competition. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements.

JS 436. The Intelligence Community. 3 Hours.
Weekly seminars by intelligence community experts covering relevant topics including state fusion centers; proliferation of intelligence units within first responder agencies; growing role of the private sector; and local prosecution for intelligence agency abuse.

JS 437. Cybercrime and Forensics. 3 Hours.
Overview of all aspects of media forensics including analysis of character encoding, file formats, and digital media; examination of disk acquisition and duplication techniques; application of media forensic techniques in criminal investigation scenarios.
Prerequisites: JS 402 [Min Grade: C]

JS 440. White Collar and Corporate Crime. 3 Hours.
Introduction to, and analysis of, illegal/deviant behavior occurring in complex organizational settings, including theoretical explanations; patterns and case studies; and control strategies.

JS 441. Terrorism and Social Control. 3 Hours.
Exploration of causes and consequences of terrorism and how governments respond, including investigation, prosecution, and punishment of terrorists.

JS 442. Race, Crime, Gender and Social Policy. 3 Hours.
Examination of how subordinate status of minority groups (African Americans, Hispanics, Native Americans and Women) affects interaction with the justice system as offenders, victims, and professionals.

JS 443. Women and the Criminal Justice System. 3 Hours.
Examination of women’s experiences as offenders, victims, and professionals in the criminal and civil justice systems.

JS 444. Law and Society. 3 Hours.
Examination of relationship between law and society, including how law is used to facilitate or retard social change, social control, and social conflict.

JS 445. Juvenile Corrections. 3 Hours.
Examination of historical and contemporary efforts to reduce juvenile delinquency through institutional and community-based programs; innovative programs; evaluation of program effectiveness.

JS 450. Questioned Death Investigation. 3 Hours.
Introduction to and analysis of questioned deaths, including techniques used in case investigation; overview and history of coroners’ offices structure and function in the U.S.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 451. Research Methods in Forensic Science. 3 Hours.
Review of routinely used research methods to conduct forensic science scientific studies.
Prerequisites: CJ 110 [Min Grade: C] or JS 110 [Min Grade: C]

JS 452. Questioned Documents. 3 Hours.
Introduction to and analysis of questioned documents, including techniques used in case investigation. Laboratory fee charged.
Prerequisites: (JS 100 [Min Grade: C] and JS 110 [Min Grade: C]) or (CJ 100 [Min Grade: C] and CJ 110 [Min Grade: C])

JS 453. Investigation of Fires and Explosions. 3 Hours.
Introduction to arson investigation including overview of specific techniques used in case investigation; case preparation and presentation in court.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 456. Forensic Approaches to Osteology. 3 Hours.
Introduction study of structure and function of bones with particular emphasis on ability to identify age, sex, and population type of skeletal material.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 460. Violence: An American Tradition. 3 Hours.
Examines violence as an American tradition, including historical acts of violence as catalysts for social change, destructive or negative violence, and policies and prevention strategies.
JS 465. Cold Case Analysis. 3 Hours.
Introduction to methods used in analyzing unsolved cases, including innovative technology, 3rd party investigators, and teams.

JS 466. Spatial Analysis and Crime Mapping. 3 Hours.
This skills-based class will introduce students to the application of geographic information systems (GIS) to crime-related topics and issues.

JS 477. Legislative Issues in the Intelligence Community. 3 Hours.
Case studies of legislative contributions to and curbs on intelligence community's legal authority, including Patriot Act, Foreign Intelligence Surveillance Act (FISA), Defense Department Authorization Act, and state and local legislative initiatives.

JS 481. Honors Research. 3 Hours.
Undergraduate research project developed and completed under direction of faculty mentor.

JS 482. Honors Research and Colloquium. 3 Hours.
Completion of undergraduate Honors Project under the guidance of a faculty mentor with presentation of project at department colloquium.

JS 483. Patterns in Crime. 3 Hours.
Examination of the major correlates of crime and criminality; critical examination of major sources of information from which data on crime correlates are gathered.
Prerequisites: (JS 100 [Min Grade: C] and JS 101 [Min Grade: C]) or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 490. Independent Research in Criminal Justice. 1-3 Hour.
Independent readings, research or project approved and directed by a criminal justice faculty member who supervises proposed plan of study. Permission of Department Chair.

JS 491. Independent Research in Criminal Justice. 1-3 Hour.
Independent readings, research or project approved and directed by a criminal justice faculty member who supervises proposed plan of study. Permission of Department Chair.

JS 497. Internship and Capstone in Criminal Justice for Practitioners. 3-6 Hours.
Supervised capstone experience for students already working in a local, state, or federal criminal justice or ancillary agency. Course strongly emphasizes demonstration of student's ability to communicate in written form to appropriate audiences, including competencies in grammar and mechanics; understanding and practicing ethical decision making and civic responsibility; and quantitative analyses including construction and interpretation of tables and ability to adequately communicate quantitative information. Prerequisite: Permission of Internship Coordinator. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements. Ethics and Civil Responsibility and Writing are significant components of this course (QEP).

JS 498. Distance Internship and Capstone in Criminal Justice. 3-6 Hours.
Supervised capstone experience in criminal justice agency located more than 100 miles from Birmingham. Course strongly emphasizes demonstration of student's ability to communicate in written form to appropriate audiences, including competencies in grammar and mechanics; understanding and practicing ethical decision making and civic responsibility; and quantitative analyses including construction and interpretation of tables and ability to adequately communicate quantitative information. Prerequisite: Permission of Internship Coordinator. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements. Ethics and Civil Responsibility and Writing are significant components of this course (QEP).

JS 499. Internship and Capstone in Criminal Justice. 3-6 Hours.
Supervised capstone experience in local, state, or federal criminal justice or ancillary agency. Course strongly emphasizes demonstration of ability to communicate in written form to an appropriate audience, including competence in grammar and mechanics; understanding and practicing ethical decision making and civic responsibility; and quantitative analyses including construction and interpretation of tables and ability to adequately communicate quantitative information. Prerequisite: Permission of Internship Coordinator. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements. Ethics and Civil Responsibility and Writing are significant components of this course (QEP).

Joint Community College Courses

JCC 101. Joint Comm Coll Program. 0 Hours.

KIN - Kinesiology Courses

KIN 101. Beginning and Advanced Beginning Swimming. 1 Hour.
This course provides the student with basic aquatic safety skills as well as aquatic survival skills. The strokes include beginner, front crawl, elementary back stroke, breast stroke, back crawl and side stroke. Intermediate or advanced swimmers will be administratively withdrawn from the course.

KIN 102. Intermediate Swimming/Swimmer Course. 1 Hour.
The intermediate swim course is part of the American Red Cross "Learn to Swim" Program, which is designed for learning and improving swim strokes. Gaining the knowledge and skills needed in basic water safety is the common theme in providing the information and resources to make participation in aquatics activities a lifetime pursuit. Students make be able to swim 25 yards using crawl stroke and elementary backstroke.

KIN 103. Lifeguard Training. 1 Hour.
The American Red Cross Lifeguarding course focuses on training people who are already good swimmers. The course covers the skills and knowledge required for effective lifeguarding at swimming pools and at non-surf, open-water beaches. Must be able to swim 300 yards continuously and surface dive 7 - 10 feet to retrieve a 10 lb. object.

KIN 105. Golf. 1 Hour.
Beginning skills, rules and etiquette for recreational golf.

KIN 108. Weight Training and Aerobics. 1 Hour.
Basic weight training and aerobic instruction and workouts.

KIN 112. Dance and Gymnastics. 1 Hour.
Provides future teachers background in planning and conducting basic dance and gymnastic instruction. Intended for physical education majors.
KIN 114. Rec Games/Outdoor Leisure. 1 Hour.
Wide array of games and pursuits which may include bowling, orienteering, pickelball, and table tennis.

KIN 115. Weight Training. 1 Hour.
Basic weight training techniques and creation of personal workouts.

KIN 116. Ballroom and Latin Dancing. 1 Hour.
Instruction of the more popular social Latin and Ballroom dances.

KIN 117. Team Sports. 1 Hour.
This course will enable students to learn the basic skills of eight different team sports (team handball, football, volleyball, basketball, soccer, speedball, tchoukball, and rugby). Students will practice those skills to have the ability to gain skill proficiency in playing the sports as well as teaching others to play the sport.

KIN 118. Sports Using Implements. 1 Hour.
This course will enable students to learn the basic skills of different sports that require use of an implement (i.e., badminton, cricket, hockey, lacrosse, softball, and tennis). Students will practice those skills to have the ability to gain skill proficiency in playing the sport as well as teaching others to play the sport.

KIN 124. Beginning Whitewater Kayaking. 1 Hour.
This course is designed to teach beginner paddlers to safely and enjoyably kayak on Class II rivers.

KIN 125. Cheerleaders and Dance Team. 1 Hour.
Open to members of UAB cheerleading and dance teams only.

KIN 126. Flying Disc Sports. 1 Hour.
Students in this class will learn the basic skills of throwing and catching flying discs. They can incorporate these techniques in the popular games of today including Ultimate, a team game similar to soccer that is very popular in college and university settings, and Disc Golf, one of the fastest growing individual sports of the day.

KIN 128. Rock Climbing. 2 Hours.
Introduction to the fundamentals of rock climbing. Lectures and drills designed to give students an introduction to the skills and knowledge to rock climb safely in a single pitch sport climbing environment.

KIN 129. Aikido. 1 Hour.
Series of techniques adapted to respond to a variety of attacks and to multiple attackers.

KIN 130. Scuba Diving. 1 Hour.
Physiology, physics, safety issues, and guidelines of recreational scuba diving through lectures, quizzes, and final exams. Students will learn and be able to demonstrate the proper assembly and use of scuba equipment as well as proper swimming and breathing techniques. Students must provide their own snorkel, fins, and mask. Must be able to tread water for 10 minutes and swim 200 yards.

KIN 131. Aerobics. 1 Hour.
Opportunity to improve cardiovascular fitness, flexibility, muscular strength and endurance and body composition in a group setting. Improves rhythm and coordination, body and space awareness, energy management appreciation of a healthy lifestyle and mental focus and concentration.

KIN 132. Group Exercise Leadership. 1 Hour.
Review and application of exercise science theory to group exercise. Repertoire of exercise for flexibility, strength, aerobic dance, and step training. Practice teaching each segment of a class at end of course will be able to teach a 60 minute group exercise class.

KIN 133. Aerobic Training. 1 Hour.
The purpose of this course is to provide information and experiences in aerobic exercise training, heart rate monitoring, and fitness assessment.

KIN 134. The College Athlete: Concerns and Issues. 3 Hours.
Needs of and demands on college athletes. Time management, study skills and habits, drug use and abuse, drug testing and NCAA rules, use of trainer and training facilities, and nutritional practices. Holistic health with emphasis on keeping athletic experience in perspective. Does not count toward physical education major or minor.

KIN 136. Intro to Physical Education Fitness and Sport. 3 Hours.
Introduction to the fields; professional organizations, career opportunities, historical development, and philosophical and scientific foundations.

KIN 201. Officiating Techniques. 2 Hours.

KIN 206. Introduction to Teaching Physical Education. 3 Hours.
Research on teaching physical education and sociocultural influences on children as learners; development of basic teaching skills.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]

KIN 222. Concepts of Health and Fitness. 2 Hours.
Fitness and related health concepts. Fitness assessment, variety of fitness-related activities, and development of personal fitness program. Nutrition and cardiovascular health.

KIN 300. Organization and Administration of Physical Education. 3 Hours.
Development of skills required to organize and administer physical education programs.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]

KIN 305. Motor Development. 3 Hours.
Development of motor skills, physical fitness, and perceptual motor abilities across life span; concentration on preschool population. Students will be required to communicate effectively in writing the information obtained via assessment of the above elements of motor development. In addition, quantitative literacy will be assessed in terms of the student's ability to interpret the assessment data to plan appropriate physical activities. Laboratory experiences.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]

KIN 307. Applied Kinesiology. 3 Hours.
Knowledge of anatomical terminology and analysis of internal muscular forces that act on bones resulting in motion at major movable joints. Identification and application of mathematical formulae to comprehend the external and internal biomechanical forces that occur in human movement.

Prerequisites: BY 115 [Min Grade: C] and (MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C] or MA 126 [Min Grade: C])

KIN 308. Adapted Physical Education. 3 Hours.
Prescription and planning physical activity for individuals with disabilities.

Prerequisites: ECY 300 [Min Grade: C] and (KIN 305 [Min Grade: C] or PE 305 [Min Grade: C])

KIN 311. Elementary School Physical Education. 3 Hours.
Nature and content of a developmentally appropriate elementary physical education program.

Prerequisites: KIN 136 [Min Grade: C]; (Can be taken Concurrently) or PE 136 [Min Grade: C] and KIN 305 [Min Grade: C]; (Can be taken Concurrently) or PE 305 [Min Grade: C]
KIN 320. Fitness/Motor Skill Acquisition. 3 Hours.
Acquire the knowledge and the skills necessary to analyze and appropriately teach motor skills and design developmentally appropriate fitness activities for adolescents applicable to all physical activity settings (school and recreation. Admission to TEP.
Prerequisites: (KIN 305 [Min Grade: C] and KIN 136 [Min Grade: C]) or (PE 305 [Min Grade: C] and PE 136 [Min Grade: C])
KIN 320L. Sports Skill Proficiency. 1 Hour.
Acquire the knowledge and the skills necessary to teach the critical elements needed to perform all basic sport skills. Students will demonstrate skill proficiency in the sport skills as well as the ability to teach others to perform the skills. Concurrent Enrollment in Fitness/ Motor Skill Acquisition required. Physical Education Teacher Certification Students Only.
Prerequisites: KIN 305 [Min Grade: C] or PE 305 [Min Grade: C]
KIN 323. Techniques Teaching Sport Skills in Sec. Schools. 3 Hours.
Techniques and strategies for teaching sport skills typically covered in a middle or high school physical education program. Emphasis on lifetime sports.
KIN 340. Planning/Management of Fitness Facilities. 3 Hours.
Management, marketing, operational leadership, evaluation, and planning principles of commercial, corporate, clinical, and community health/fitness facilities.
Prerequisites: (KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]) and HE 141 [Min Grade: C]
KIN 400. Physiology of Exercise. 4 Hours.
Knowledge of acute and chronic physiological adaptations in response to a wide-range of exercise conditions. Includes clinical laboratory experiences.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])
KIN 402. Basic Athletic Training. 2 Hours.
Knowledge and skills in organization and administration, mechanisms of injury, recognition and evaluation of injuries, injury management, general nutritional concerns, medical conditions and taping and bracing techniques.
Prerequisites: KIN 136 [Min Grade: C] (Can be taken Concurrently) and BY 115 [Min Grade: C] (Can be taken Concurrently) and KIN 307 [Min Grade: C] or (PE 136 [Min Grade: C] and BY 115 [Min Grade: C]) (Can be taken Concurrently) and PE 307 [Min Grade: C]
KIN 403. Basic Therapy Management of Sports Injuries. 3 Hours.
Use of modalities and rehabilitation techniques to return injured athlete to athletic participation. Practical experience in the therapeutic management of sports injuries.
Prerequisites: KIN 402 [Min Grade: C] or PE 402 [Min Grade: C]
KIN 405. Sports Nutrition. 3 Hours.
Overview of current research on sources, functions, digestion, absorption and metabolism of nutrients and ergogenic aids relative to the athlete over the life cycle. HE 141 and NTR 222 strongly recommended.
Prerequisites: BY 116 [Min Grade: C]
KIN 407. Coaching Young Athletes. 3 Hours.
Acquire knowledge and understanding of the principles of coaching regarding sport psychology, sport pedagogy, sport physiology, and sports management.
KIN 409. Assessment in Physical Education. 3 Hours.
This course emphasizes the development, implementation, and analysis of assessments within K-12 physical education programs, including assessment of the cognitive, physical, and psychomotor domains including program assessment.
Prerequisites: KIN 320 [Min Grade: C] or PE 320 [Min Grade: C]
KIN 440. Principles of Conditioning the Athlete. 3 Hours.
Isometric, isotonic, negative, variable resistance, and isokinetic training; tapering of athlete; constructing weight training programs; techniques of various types of exercise and weight training for specific sports.
Prerequisites: BY 115 [Min Grade: C] and (KIN 400 [Min Grade: C] or PE 400 [Min Grade: C])
KIN 450. Physical Activity for Individuals with Disabilities/SL. 3 Hours.
Knowledge and skills needed to meet the unique fitness and physical activity needs of individuals with various disabilities. Design and implementation of personal training/fitness programs and disability sports/recreation programs for individuals with disabilities based on assessments of health-related strengths and needs. This is a designated service-learning course integrating academic learning, civic learning, and meaningful service to the community.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])
KIN 451. Physical Activity for Senior Adults. 3 Hours.
Knowledge and skills needed to be a leader of exercise, dance, and fitness for older adults.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])
KIN 460. Clinical Exercise Physiology. 3 Hours.
The use of exercise as a form of treatment and prevention of chronic disease.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])
KIN 470. Advanced Treatment Athletic Training. 3 Hours.
Seminar in treatment and prevention.
Prerequisites: KIN 402 [Min Grade: C] or PE 402 [Min Grade: C]
KIN 485. Exercise Testing/Prescription. 3 Hours.
Knowledge and skill needed to perform pre-exercise health risk and physical fitness assessments interpret results and develop exercise prescriptions to apparently healthy individuals and individuals with medically controlled diseases (based on ‘American College of Sports Medicine’ guidelines). This course also includes a high level of review of exercise physiology and applied kinesiology, and application of behavioral and motivational strategies to support clients in adopting and maintaining healthy lifestyle behaviors.
Prerequisites: PE 400 [Min Grade: C] (Can be taken Concurrently) or BY 115 [Min Grade: C] or BY 116 [Min Grade: C] or PE 307 [Min Grade: C] or HE 140 [Min Grade: C]
KIN 489. Instructional Strategy for Physical Education K-12. 6 Hours.
Various teaching methods and materials suitable for use in elementary (P-6) and secondary physical education (middle, junior high, or senior high) schools. Opportunities to apply methods and materials while working with small groups of elementary and secondary school students.
Prerequisites: KIN 320 [Min Grade: C] or PE 320 [Min Grade: C]
KIN 492. Special Projects in Kinesiology. 1-6 Hour.
Designed as an independent study for students who wish to conduct an in-depth investigation into a physical education related topic.
KIN 493. Problems in Kinesiology. 3-6 Hours.
Provides students with current information regarding a selected physical education related issue. Classes taught under this course title are outside the current physical education program requirements.

KIN 495. Elementary/Secondary Physical Education Student Teaching. 9 Hours.
Capstone experience including observation and teaching of physical education to attain grades P-12 Alabama certification.

KIN 496. Physical Education Internship Seminar. 3 Hours.
Supports and extends efforts of student teaching. Problem solving related to situations such as classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship.

KIN 499. Fitness Internship. 3-6 Hours.
Takes place in a setting that is related to the degree and major area of emphasis and serves as the culminating experience of the formal education process. Students complete their internship hours with guidance from their agency supervisor.

Prerequisites: (KIN 485 [Min Grade: C] or PE 485 [Min Grade: C]) and (KIN 136 [Min Grade: C] or PE 136 [Min Grade: C])

LCB - FLC in Business Courses

LCB 101. Dollars and Sense/SL. 3 Hours.
This anchor course will take a practical approach to introducing students to the very real issue of managing their finances in the college environment by engaging them in creating a lifetime financial plan as well as participating in a service learning project. Topics of this course include financial literacy and the mathematics of money. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.

LCB 102. Roadmap Professional Success. 3 Hours.
What is professionalism? What does it mean to be a professional? This course will use your experiences and define these difficult terms together. Then explore many aspects of professionalism including ethical decision making, communication, creative thinking, emotional intelligence, and expectations of professional standards. You will learn by practicing and helping others, guest speakers, readings, class discussions, and a variety of other learning tools. Open to all majors, this course is designed to help you now as you go through school and build your resume as well as after graduation as you BECOME a professional.

LCB 103. I Lead: Access Ldsph Potential. 3 Hours.
This anchor course will examine qualities of effective leaders and how leadership skills can affect everything from your personal relationships to your career development. Students will develop their own leadership goals and show specific plans to achieve these goals. Self assessment tools will be used in this course to help students identify what type of leadership qualities and characteristics they have.

LCB 104. Soc Media & Innovation in BUS. 3 Hours.
This anchor course will examine how social media can be used in innovative ways to promote successful business practices. Students will study the world of social media, how it affects consumer behavior, ethical considerations for businesses, and how technology has changed traditional business practices in a very short time.

LCB 105. Consumers Beware. 3 Hours.
This anchor course will examine how marketing strategies target different groups of consumers to influence their buying behavior. What are companies trying to get you to buy and are their methods successful? Students will look at marketing theories, research, consumer psychology, ethics, and current practices in business.

LCB 106. Global Perspective. 3 Hours.
This FLC will examine how understanding the global marketplace will be essential for students in the 21st century. This FLC is designed to start students on a path to develop a perspective that appreciates the complexities of international culture and business.

LCB 107. Developing the Leader Within. 3 Hours.
This course will examine qualities of leaders who inspire others to work together to succeed. The role of leadership in personal and professional development will be explored. Through self-assessment, students will learn to recognize their individual strengths and opportunities for improvement as leaders. Students will develop their own leadership goals and show specific plans to achieve these goals.

LCB 108. Ingenuity and Innovation. 3 Hours.
This course focuses on how to create innovative solutions to real marketplace problems. It has an experiential learning format that emphasizes open-minded inquiry to uncover unsolved problems and practical creativity to create solutions. Topics include creativity, ideation, environmental screening, idea evaluation and entrepreneurship.

LCED-FLC in Education Courses

LCED 100. Fr Sem: Blk Male Ident n Hi Ed. 3 Hours.
The goal of this course is understanding racial identity expansion and scholastic success as a parallel process. Self-reflection and discussion of personal education development, including successes and challenges, are used to explore the validity of Black Male Identity theory and the academic plight of Black/African-American males.

LCED 101. Fresh Sem: Where Do I Fit?. 3 Hours.
America is in an interdependent society where interactive cultural learning is part of our environment. Students with multilingual home backgrounds bring significant experiences and new insights into the college classroom, but their transition to college can be challenged by competing home and school cultures. This course and learning community are designed to promote academic success and campus assimilation for students with multilingual backgrounds by applying experiential cultural and social approaches to learning.

LCH- FLC in Arts/ Humanities Courses

LCH 101. Freshman Seminar: Making and Breaking Codes. 3 Hours.
A broad introduction to encryption (code-making) and decryption (code-breaking) within an historical context from the writing of lost civilizations through the role of Navajo code talkers in WWII to the current debate over individual privacy vs public security.

LCH 102. Freshman Sem: Cont Eth & Soc Pr. 3 Hours.
A survey of the most prevalent arguments around such contemporary moral and social issues as euthanasia, abortion, stem cell research, and race and gender issues in scientific research. Students will learn to identify deductively valid arguments and methods for testing soundness in arguments.
An introduction to twelve health care professions, including educational and credentialing requirements, as well as current issues in health care such as patient interaction, end of life issues, workforce shortages and health care disparities.

LCPH 102. FS:Biotec-Art Commercializ Sci. 3 Hours.
Anchor course for freshman learning community; introduction to biotechnology industry, including recent advances at local, national, and global levels; skills development in critical thinking, oral and written communication, presentation, and writing in the context of scientific information.

LCNU-FLC in Nursing Courses

LCNU 101. Nursing Learning Community Seminar. 3 Hours.
This course allows you to investigate your own health and develop self-help strategies to promote those behaviors that will help you do your best at UAB and achieve your career goals. Topics range from Managing Stress, Cold or Flu, and Food for the Body, Mind, and Good Grades to Time Management and Personality Types and Learning Styles.

LCPH - FLC in Public Health Courses

LCPH 101. Freshman Seminar: Health w/o Border. 3 Hours.
Students learn how globalization, environmental changes, population dynamics, political systems, tradition, culture, natural resources, and economic development impact such current and emerging public health issues around the world as SARS, Avian flu, West Nile virus, and Mad Cow Disease.

LCPH 102. Fr Sem:Public Health & America. 3 Hours.
The nation’s health emerged as an important political issue during the 2008 presidential elections and the debates about strategies for stimulating the economy during the winter of 2009. This course includes a broad overview of how investments in public health infrastructure, access to health care services, and public health issues impact every citizen's life now, as well as the future of the nation.

LCS-FLC in Social/Behavioral Courses

LCS 101. Freshman Seminar: Exploring Birmingham. 3 Hours.
Experiential learning is used to introduce students to the varied social, political and economic issues relevant to the largest city in Alabama. Students conduct empirical research doing field work in different areas of the Birmingham community and evaluating historical visual documents.

LCS 102. Freshman Seminar: We are the People. 3 Hours.
Beginning with an historical appreciation of political development at the local, state, national, and international levels, this course introduces students to interpreting and analyzing political ideas and the data used in the political process. By understanding such political phenomenon as insincere voting, apportionment, and weighted voting, students will be able to make more informed civic decisions.

LCS 103. Freshman Seminar: Global Communities. 3 Hours.
Using Birmingham as a place to explore, this course will examine the many ways that modern social, economic and political systems have allocated power and created societies that do not always fulfill the promises of equal justice and democracy in America. Through readings, films, discussions, lectures, and experiences in the city itself, you will learn how to gather and analyze information, think critically about tough and contentious issues, and gain new perspectives on seemingly intractable problems in urban communities.

LCS 104. Freshman Seminar: Health Without Borders. 3 Hours.
Students learn how globalization, environmental changes, population dynamics, political systems, tradition, culture, natural resources, and economic development impact such current and emerging public health issues around the world as SARS, Avian flu, West Nile virus, and Mad Cow Disease.
Prerequisites:

EH 301 [Min Grade: C]

LING 351. Structure of English. 3 Hours.
Description and analysis of present-day English grammar with particular attention paid to the structure of phrases, clauses and sentences, including parts of speech, coordination, subordination, tense, aspect, voice, grammatical functions, agreement and clause types.
Prerequisites: EH 201 [Min Grade: C]

LING 352. The Structure of English Words. 3 Hours.
Introduction to English vocabulary elements and word formation, including topics in history of English and sound patterns as these topics relate to word formation. Does not count as literature for Core Curriculum requirement.
Prerequisites: EH 102 [Min Grade: C]

LING 355. Introduction to Sociolinguistics. 3 Hours.
Social factors that play role in language usage and learning; emphasis on American English.
Prerequisites: EH 102 [Min Grade: C]

LING 356. Semantics. 3 Hours.
Meaning in language with reference to questions of synonymy, ambiguity, and language use.
Prerequisites: EH 102 [Min Grade: C]

LING 360. Phonology. 3 Hours.
Sound patterning of languages.
Prerequisites: EH 102 [Min Grade: C]

LING 393. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 102 [Min Grade: C]

LING 450. Advanced Grammar. 3 Hours.
Present-day English grammar.
Prerequisites: EH 250 [Min Grade: C] or EH 251 [Min Grade: C]

LING 451. Generative Grammar. 3 Hours.
Introduction to Chomskian linguistic theory. Knowing a language involves knowing an intricate set of rules; this course gives one approach to modeling this linguistic knowledge.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 452. Grammar and Usage for English Teachers. 3 Hours.
Overview of English grammar and usage, focusing on those topics that are presented in the classroom. Topics will include the difference between prescriptive and descriptive grammar, parts of speech, types of verbs, grammatical functions, agreement, sentence structure, tense, aspect, voice, finite clauses, nonfinite clauses, clause types. Focus also Reed-Kellogg sentence diagramming.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 453. History of the English Language. 3 Hours.
Overview of language evolution from Proto-Indo European to modern English dialects, including phonological shifts, dialectical distinctions, language families, and orthographical and syntactical changes.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 454. The Biology of Language. 3 Hours.
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]
LING 466. Computational Linguistics. 3 Hours.
Computational Linguistics.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 493. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 494. Special Problems in Linguistics. 3 Hours.
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 495. Special Problems in Linguistics. 3 Hours.
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LS-Legal Studies Courses

LS 246. Legal Environment of Business. 3 Hours.
This course is required for all students in the School of Business. Students acquire a general knowledge of the legal environment of business and the basic principles of contracts, property, business organizations, bankruptcy, employment, securities, torts, international, antitrust, and business-related criminal law. Students practice ethical reasoning and decision-making. Students acquire an understanding of the role and value of diversity in the workplace through study of equal employment opportunity and other laws. Ethics and Civic Responsibility are significant components of this course (QEP).

LS 457. Business Law for Accountants. 3 Hours.
Legal forms of business organization, including partnerships and corporations. Commercial paper, especially negotiable instruments; sales under Uniform Commercial Code; other CPA examination material. Junior standing required.
Prerequisites: (LS 246 [Min Grade: C] and GPAT and GPAO 2.00) or (LS 246 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

LS 471. Legal Elements of Fraud Investigation. 3 Hours.
Key legal principles and courtroom procedures relevant to forensic accounting, and survey of related topics—criminology theories, evidence management, and litigation services.
Prerequisites: (LS 246 [Min Grade: C] and GPAT and GPAO 2.00) or (LS 246 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

LT-Foreign Literature English Courses

LT 420. World Literature I. 3 Hours.
Selections in translation from Greek, Latin, and Hebrew classics and other literature, and from oral tradition. Focus on the relevant questions of genre and on Greek, Roman and Jewish societies in which the works were produced.

LT 421. World Literature II. 3 Hours.
Selections in translation from major European writers. Overview of a rotating selection of genres, texts, author, societies and regions of Europe. Focus on the relevant questions of genre and on the continental societies in which the works were produced.

LT 425. French Literature in English Translation. 3 Hours.
Selections in translation from major Francophone writers. Overview of a rotating selection of genres texts and authors. Focus on the relevant questions of genre and on the French-speaking societies in which the works were produced.

LT 426. German Literature in English Translation. 3 Hours.
Selections in translation from major Spanish or Hispano-American writers. Overview of rotating selection of genres, texts, authors, and regions of the Hispanic World. Focus on the relevant questions of genre and on the German-speaking society in which the works were produced.

LT 427. Spanish and/or Spanish-American Literature in English. 3 Hours.
Selections in translation from major Spanish or Hispano-American writers. Overview of a rotating selection of genres, texts, authors and regions of the Hispanic World. Focus on the relevant questions of genre and on the Spanish-speaking societies in which the works were produced.

LT 430. Brazilian or Portuguese Literature in English Translation. 3 Hours.
Selections in translation from major Portuguese or Brazilian writers. Overview of a rotating selection of genres, texts, authors, and regions of the Lusophone World. Focus on the relevant questions of genre and the Portuguese-speaking societies in which the works were produced.

LT 431. Individual Studies. 1-3 Hour.
Individualized course of directed readings and activities for students of languages other than those commonly taught at UAB. Permission of department chair required.

MA-Mathematics Courses

MA 096. Basic Algebra. 3 Hours.
Arithmetic of integers, rational numbers, real numbers, exponents, polynomial algebra, factoring, rational functions, linear and quadratic equations, elementary geometry, verbal problems. Designed to prepare students for college level math courses. Consists of two scheduled 50 minute class meetings per week, plus one scheduled 50 minute lab meeting per week, plus 70 minutes of individually scheduled lab time per week Attendance at the first day of class is mandatory. Attendance at the first lab meeting is mandatory. Students not in attendance on the first day of class or the first lab meeting will be dropped from the course. Non-credit; does not contribute to any degree requirements. 0.000 Credit Hours.

MA 098L. Basic Algebra Laboratory. 0 Hours.
Basic Algebra Lab - Arithmetic of integers, rational numbers, real numbers, exponents, polynomial algebra, factoring, rational functions, linear and quadratic equations, elementary geometry, verbal problems. Must be taken in conjunction with MA098 Basic Algebra. Attendance at the first lab meeting is mandatory.
MA 102. Intermediate Algebra. 3 Hours.
Absolute values, Cartesian coordinates, graphs of linear equations, concept of a function, linear systems, algebra of polynomials, factoring of polynomials, algebra of rational expressions, literal equations, word problems involving linear, rational and quadratic models, integer and rational exponents, radical expressions, rational, radical and quadratic equations, complex numbers. Students not in attendance on the first day will be dropped form the class. Students not in attendance at the first lab meeting will be dropped from the course. On-line section only: MA 102 section QL is an on-line version of MA 102 intended primarily for students who have job conflicts or live a long distance from the campus. There are no lectures or instructor-led lab meetings with this section. Students who need direct instructor support should register for one of the other sections of MA 102. Students in the on-line section should be self-starters who are confident in their ability to master mathematics. Instructor support is available via email.

Prerequisites: MA 098 [Min Grade: P] or (A02 20 and HSCG 2.50) or A02 21 or (S02 480 and HSCG 2.50) or S02 500 or MA 105 or MA 098 [Min Grade: C]

MA 102L. Intermediate Algebra Laboratory. 0 Hours.
Absolute values, Cartesian coordinates, graphs of linear equations, concept of a function, linear systems, algebra of polynomials, factoring of polynomials, algebra of rational expressions, literal equations, word problems involving linear, rational and quadratic models, integer and rational exponents, radical expressions, rational, radical and quadratic equations, complex numbers. Must be taken in conjunction with MA 102, Intermediate Algebra.

MA 105. Pre-Calculus Algebra. 3 Hours.
Functions from algebraic, geometric (graphical), and numerical points of view, including polynomial, rational, logarithmic, and exponential functions; inverse functions; systems of equations and inequalities; quadratic and rational inequalities; complex and real roots of polynomials; functions; inverse functions; systems of equations and inequalities, rational, radical and quadratic equations, complex numbers. Students not in attendance on the first day will be dropped form the class. Students not in attendance at the first lab meeting will be dropped from the course. On-line section only: MA 105 section QL is an on-line version of MA 105 intended primarily for students who have job conflicts or live a long distance from the campus. There are no lectures or instructor-led lab meetings with this section. Students who need direct instructor support should register for one of the other sections of MA 105. Students in the on-line section should be self-starters who are confident in their ability to master mathematics. Instructor support is available via email.

Prerequisites: MA 098 [Min Grade: P] or (A02 20 and HSCG 2.50) or A02 21 or (S02 480 and HSCG 2.50) or S02 500 or MA 105 or MA 098 [Min Grade: C]

MA 105L. Pre-Calculus Algebra Laboratory. 0 Hours.
Absolute values, Cartesian coordinates, graphs of linear equations, concept of a function, linear systems, algebra of polynomials, factoring of polynomials, algebra of rational expressions, literal equations, word problems involving linear, rational and quadratic models, integer and rational exponents, radical expressions, rational, radical and quadratic equations, complex numbers. Must be taken in conjunction with MA105 Pre-Calculus Algebra.

MA 106. Pre-Calculus Trigonometry. 3 Hours.
Trigonometric functions (circular functions) and their inverses, graphs, and properties; right triangle trigonometry and applications; analytical trigonometry, trigonometric identities and equations; polar coordinates; complex numbers; laws of sines and cosines; conic sections. Supports development of quantitative literacy. Consists of one scheduled 50 minute lecture per week, plus one 50 minute scheduled lab meeting per week, plus 70 minutes of individually scheduled lab time per week. Attendance at the first day of class is mandatory. Attendance at the first lab meeting is mandatory. Students not in attendance on the first day of class or the first lab meeting will be dropped from the course. Quantitative Literacy is a significant component of this course (QEP).

Prerequisites: MA 105 [Min Grade: C] or (A02 25 and HSCG 3.50) or (A02 26 and HSCG 3.00) or A02 27 or (S02 580 and HSCG 3.50) or (S02 600 and HSCG 3.00) or S02 620 or MAC1 17 or MA3 080

MA 106L. Pre-Calculus Trigonometry Laboratory. 0 Hours.
Trigonometric functions (circular functions) and their inverses, graphs, and properties; right triangle trigonometry and applications; analytical trigonometry, trigonometric identities and equations; polar coordinates; complex numbers; laws of sines and cosines; conic sections. Must be taken in conjunction with MA106 Pre-Calculus Trigonometry.

MA 107. Precalculus Algebra and Trigonometry. 4 Hours.
Functions, their graphs and applications, including polynomial, rational, algebraic, exponential, logarithmic, and trigonometric functions. A fast-paced course designed as a review of the algebra and trigonometry needed in calculus. (MA107 is a combination of MA105 Pre-Calculus Algebra and MA106 Pre-Calculus Trigonometry taught in a single semester.) Satisfies core curriculum requirement in mathematics. Supports development of quantitative literacy. Consists of two scheduled 50 minute lectures per week, plus one 50 minute scheduled lab meeting per week, plus 70 minutes of individually scheduled lab time per week. Attendance at the first day of class is mandatory. Attendance at the first lab meeting is mandatory. Students not in attendance on the first day of class or the first lab meeting will be dropped from the course. Quantitative literacy is a significant component of this course (QEP).

Prerequisites: MA 102 [Min Grade: B] or (A02 24 and HSCG 3.50) or (A02 25 and HSCG 3.00) or (A02 26 and HSCG 2.50) or A02 27 or MAAD 25 or MAAD 21 or MA4 085 or (S02 560 and HSCG 3.50) or (S02 580 and HSCG 3.00) or (S02 600 and HSCG 2.50) or S02 620

MA 109. Survey of Calculus. 3 Hours.
An overview of calculus and its applications for students majoring in business: limits, differentiation and integration of algebraic, logarithmic, and exponential functions; applications to business and economics; functions of several variables; partial derivatives, extrema, and multiple integration. Students construct models of business situations, translate verbal descriptions into mathematical form, interpret and create graphical, algebraic, and numerical representations of relationships, use quantitative evidence to formulate arguments and draw conclusions, and communicate quantitative information in a manner suitable to the audience. May not be enrolled in Undergraduate Certificate. Lecture. Quantitative literacy is a significant component of this course (QEP).

Prerequisites: MA 105 [Min Grade: C] or MA 107 [Min Grade: C] or (A02 23 and HSCG 3.50) or (A02 24 and HSCG 3.00) or (A02 25 and HSCG 2.50) or A02 26 or (S02 540 and HSCG 3.50) or (S02 560 and HSCG 3.00) or (S02 580 and HSCG 2.50) or S02 600 or MAC1 17
MA 110. Finite Mathematics. 3 Hours.
An overview of topics of finite mathematics and applications of mathematics for the liberal arts student. Topics include counting, permutations, combinations, basic probability, descriptive statistics, binomial and normal distributions, statistical inference, and additional selected topics. Students construct models of problems situations, translate verbal descriptions into mathematical form, interpret and create schematic representations of mathematical relationships, use quantitative evidence as a basis for reasoning, argument, and drawing conclusions, and communicate their results to an audience appropriately. May not be enrolled in Undergraduate Certificate. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 098 [Min Grade: C], MA 096 [Min Grade: C] or MA 097 [Min Grade: C] or MA 098 [Min Grade: C] or MA 102 [Min Grade: C] or (A02 20 and HSCG 2.00) or A02 21 or (S02 480 and HSCG 2.00) or S02 500 or MAAD 15 or MA 108

MA 110L. Finite Mathematics Laboratory. 0 Hours.
An overview of topics of finite mathematics and applications of mathematics for the liberal arts student. Topics include counting, permutations, combinations, basic probability, descriptive statistics, binomial and normal distributions, statistical inference and additional selected topics.

MA 120. Introduction to Symbolic Logic. 3 Hours.
Modern theory of deductive inference. Emphasis on recognizing valid forms of reasoning. Truth-function theory and some concepts of one-variable quantification theory. May not be used to satisfy Core Curriculum requirement in mathematics.

MA 125. Calculus I. 4 Hours.
Limit of a function; continuity, derivatives of algebraic, trigonometric exponential, and logarithmic functions, application of derivative to extremal problems, related rates problems, and graphing; Newton's method; the definite integral and its application to area problems. Quantitative literacy is a significant component of this course (QEP).
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or (A02 25 and HSCG 3.50) or (A02 26 and HSCG 3.00) or A02 27 or (S02 580 and HSCG 3.50) or (S02 600 and HSCG 3.00) or S02 620 or MAC2 16 or MA 5080

MA 126. Calculus II. 4 Hours.
Fundamental theorem of integral calculus; techniques of integration; applications in integration such as volume, arc length, work, and average value; infinite series; polar coordinates; parametric equations; plane and space vectors; lines and planes in space. Writing assignment on a project drawing from the above topics. Quantitative Literacy and Writing are significant components of this course (QEP).
Prerequisites: MA 124 [Min Grade: C] or MA 125 [Min Grade: C]

MA 180. Introduction to Statistics. 3 Hours.
Descriptive and inferential statistics, probability distributions, estimation, hypothesis testing. Recommended that 2 years of high school algebra or MA102 has been completed before taking course. Quantitative Literacy is a significant component of this course (QEP).

MA 224. Intermediate Symbolic Logic. 3 Hours.
Full development of quantification theory, including identity and definite description, and soundness and completeness proofs. Skill in formal proof emphasized, as well as ability to express arguments from natural language in artificial language.
Prerequisites: MA 120 [Min Grade: C] or PHIL 220 [Min Grade: C]

MA 227. Calculus III. 4 Hours.
Vector functions, functions of two or more variables, partial derivatives, quadric surfaces, multiple integration and vector calculus, including Greens Theorem, curl and divergence, surface integrals, and Gauss' and Stokes' Theorem.
Prerequisites: MA 126 [Min Grade: C]

MA 252. Introduction to Differential Equations. 3 Hours.
First order differential equations (separable, linear, exact, and additional non-linear examples using MAPLE), modeling with first order DE's, examples of systems of first order DE's, theory of higher order linear DE's (homogeneous and non-homogeneous, superposition of solutions, linear independence and general solutions, initial and boundary value problems), solution of constant coefficient homogeneous linear equations, variation of parameters and Green's functions with complicated cases done using MAPLE. Modeling projects in the course will emphasize the use of MAPLE to do the heavy lifting. Quantitative Literacy and Writing are significant components of this course (QEP).
Prerequisites: MA 126 [Min Grade: C]

MA 260. Introduction to Linear Algebra. 3 Hours.
Linear equations and matrices; real vector spaces, basis, diagonalization, linear transformations; determinants, eigenvalues, and eigenvectors; inner product spaces, matrix diagonalization; applications and selected additional topics. MA 260 and MA 434 may not both be counted toward the major or minor.
Prerequisites: MA 126 [Min Grade: C]

MA 265. Math Tools for Engineering Problem Solving. 4 Hours.
An applied mathematics course designed to utilize the terminology and problem-solving approaches inherent to engineering, while completing the mathematical preparation of most engineering students. This course includes elements of MA 227 and MA 252.
Prerequisites: MA 126 [Min Grade: C]

MA 268. Introduction to Mathematical Biology. 3 Hours.
This course, designed at the interface of several disciplines, targets undergraduate students in biology, mathematics, and engineering. We will review the biology of problems that arise in nature and medicine and study the mathematics that allows us to tackle these problems. This course serves as an introduction, by example, to multivariable calculus, discrete and continuous differential equations in one or more variables, vectors, matrices, linear and non-linear dynamical systems, and basic concepts of chaos. Biological topics may include single species and interacting population dynamics, modeling infectious and dynamic diseases, regulation of cell function, molecular interactions and receptor-ligand binding, biological oscillators, and an introduction to biological pattern formation. There will also be discussions of current topics of interest such as tumor growth and angiogenesis, HIV and AIDS, and control of the mitotic clock.
Prerequisites: MA 126 [Min Grade: C]

MA 298. Research in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics. Freshman or sophomore standing recommended.
Prerequisites: Permission of instructor.

MA 311. History of Mathematics I. 3,4 Hours.
Development of mathematical principles and ideas from an historical viewpoint, and their cultural, educational and social significance.
Prerequisites: MA 125 [Min Grade: C] or MA 142 [Min Grade: C]
MA 312. History of Mathematics II. 3 Hours.
Development of mathematical principles and ideas from an historical viewpoint, and their cultural, educational and social significance.
Prerequisites: MA 311 [Min Grade: C]

MA 313. Patterns, Functions and Algebraic Reasoning. 3 Hours.
Problem solving experiences, inductive and deductive reasoning, patterns and functions, some concepts and applications of geometry for elementary and middle school teachers. Topics include linear and quadratic relations and functions and some cubic and exponential functions. Number sense with the rational number system including fractions, decimals, and percents will be developed in problem contexts. An emphasis will be on developing algebraic thinking and reasoning. Enrollment in the School of Education or permission of instructor. Recommended that two years of high school algebra or MA 102 has been completed before taking course.

MA 314. Geometric and Proportional Reasoning. 3 Hours.
Problem solving experiences, inductive and deductive reasoning, concepts and applications of geometry and proportional reasoning. Topics include analysis of one-, two- and three-dimensional features of real objects, ratio and proportionally, similarity, and congruence, linear area, and volume measurement, and the development of mathematically convincing arguments. An emphasis will be on developing geometric and proportional thinking and reasoning.

MA 315. Probabilistic and Statistical Reasoning. 3 Hours.
Descriptive and inferential statistics, probability, estimation, hypothesis testing. Reasoning with probability and statistics is emphasized.
Prerequisites: MA 313 [Min Grade: C]

MA 316. Numerical Reasoning. 3 Hours.
Develop an understanding of number and improve numerical reasoning skills specifically with regard to place value, number relationship that build fluency with basis facts, and computational proficiency; developing a deep understanding of numerous diverse computational algorithms; mathematical models to represent fractions, decimals and percents, equivalencies and operations with fractions, decimals and percents; number theory including order of operations, counting as a big idea, properties of number, primes and composites, perfect, abundant and significant numbers, and figurate numbers; inductive and deductive reasoning with number.
Prerequisites: MA 313 [Min Grade: C]

MA 317. Extending Algebraic Reasoning. 3 Hours.
Extension of algebraic and functional reasoning to polynomials, rational, exponential, and logarithmic functions; problem-solving involving transfer among representations (equation, graph, table); proof via symbolic reasoning, contradiction, and algorithm; interpretation of key points on graphs (intercepts, slope, extrema); development of facility and efficiency in manipulating symbolic representations with understanding; appropriate use of technology and approximate versus exact solutions; functions as models.
Prerequisites: MA 313 [Min Grade: C]

MA 360. Scientific Programming. 3 Hours.
This course is designed to provide the computational skills needed to attempt serious scientific computational tasks. Computers and floating point arithmetic; the GNU/Linux operating system and an introduction to the compiled programming languages FORTRAN (including FORTRAN 95) and C++ in the context of solving systems of linear equations and differential equations arising from practical situations; use of debuggers and other debugging techniques, and profiling; use of callable subroutine packages like LAPACK and differential equation routines; parallel programming a Beowulf system with MPI; introduction to Matlab.
Prerequisites: MA 126 [Min Grade: C]

MA 361. Mathematical Modeling. 3 Hours.
Mathematical modeling using computer software, including spreadsheets, systems dynamics software, and computer algebra systems; connections to calculus and systems of ordinary differential equations are emphasized. Students translate verbal descriptions into mathematical form using appropriate units and reasonable relationships, construct and interpret multiple representations of mathematical relationships, including tabular, graphical, and schematic, use quantitative evidence produced by models as a basis for reasoned argument to unambiguous conclusions, communicate the mathematical structure of models appropriately to an audience in written form, using proper grammar, usage, spelling, and mathematical modeling conventions of language. Lecture. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 123 [Min Grade: C], MA 125 [Min Grade: C] or MA 123 [Min Grade: C]

MA 398. Research in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Junior standing recommended. Permission of instructor required.

MA 411. Integrating Mathematical Ideas. 3 Hours.
This course will integrate ideas from algebra, geometry, probability, and statistics. Emphasis will be on using functions as mathematical models, becoming fluent with multiple representations of functions, and choosing the most appropriate representations for solving a specific problem. Students will be expected to communicate mathematics verbally and in writing through small group, whole group, and individual interactions.
Prerequisites: MA 125 [Min Grade: C] and MA 314 [Min Grade: C] (Can be taken Concurrently) or MA 315 [Min Grade: C] or MA 316 [Min Grade: C] or MA 317 [Min Grade: C]

MA 418. Statistics for Teachers. 3 Hours.
Descriptive and inferential statistics, probability distributions, estimation, hypotheses testing, regression. Writing assignment on a project drawing from the above topics. Recommended that 2 years of high school algebra or MA 102 has been completed before taking course. Quantitative Literacy is a significant component of this course (QEP).

MA 419. Special Topics. 1-4 Hour.
Topics vary; may be repeated for credit.
Prerequisites: MA 125 [Min Grade: C]

MA 434. Algebra I: Linear. 3 Hours.
Abstract vector spaces, subspaces, dimension bases, linear transformations, matrix algebra, matrix representations of linear transformations, determinants. MA 260 and MA 434 may not both be counted toward the minor.
Prerequisites: MA 126 [Min Grade: C]
MA 435. Algebra II: Modern. 3 Hours.
Groups, homomorphisms, quotient groups, isomorphism theorems, rings and ideals, integral domains, fields. As time permits, Galois theory, semigroups, modules, or other areas of algebra may be included.
Prerequisites: MA 434 [Min Grade: C]

MA 440. Advanced Calculus I. 3 Hours.
Real numbers, sequences and series, continuity, differential and integral calculus, exponential and logarithm functions, sine and cosine functions. Students present proofs from a list of pre-assigned theorems to the class. Written versions of the proofs are posted for easy access in subsequent proofs. Logical correctness and proper mathematical proof-writing style are assessed. Writing and Quantitative Literacy are significant components of the course (QEP).
Prerequisites: MA 227 [Min Grade: C]

MA 441. Advanced Calculus II. 3 Hours.
Real numbers, sequences and series, continuity, differential and integral calculus, exponential and logarithm functions, sine and cosine functions. Students present proofs from a list of pre-assigned theorems to the class. Written versions of the proofs are posted for easy access in subsequent proofs. Logical correctness and proper mathematical proof-writing style are assessed. Writing and Quantitative Literacy are significant components of the course (QEP).
Prerequisites: MA 440 [Min Grade: C]

MA 444. Vector Analysis. 3 Hours.
Review and application of multiple integrals; Jacobians and change of variables in multiple integrals; line and surface integrals; Green, Gauss, and Stokes theorems, with applications to physical sciences and computation in spherical andcylindrical coordinates.
Prerequisites: MA 227 [Min Grade: C] or EGR 265 [Min Grade: C]

MA 445. Complex Analysis. 3 Hours.
Analytic functions, complex integration and Cauchys theorem, Taylor and Laurent series, calculus of residues and applications, conformal mappings.
Prerequisites: MA 227 [Min Grade: C] or EGR 265 [Min Grade: C]

MA 453. Transforms. 3 Hours.
Theory and applications of Laplace and Fourier transforms.
Prerequisites: MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]

MA 454. Intermediate Differential Equations. 3 Hours.
Topics from among Frobenius series solutions, Sturm-Liouville systems, nonlinear equations, and stability theory.
Prerequisites: MA 252 [Min Grade: C]

MA 455. Partial Differential Equations I. 3 Hours.
Classification of second order partial differential equations; background on eigenfunction expansions and Fourier series; integrals and transforms; solutions of the wave equations, reflection of waves; solutions of the heat equation in bounded and unbounded media; Laplaces equation, Dirichlet and Neumann problems. Written project reports required. Quantitative Literacy and Writing are significant components of this course (QEP).
Prerequisites: MA 252 [Min Grade: C]

MA 456. Partial Differential Equations II. 3 Hours.
Classification of second order partial differential equations; background on eigenfunction expansions and Fourier series; integrals and transforms; solutions of the wave equations, reflection of waves; solutions of the heat equation in bounded and unbounded media; Laplace's equation, Dirichlet and Neumann problems.
Prerequisites: MA 455 [Min Grade: C]
MA 469. Numerical Analysis II. 3 Hours.
Prerequisites: MA 468 [Min Grade: C]

MA 470. Differential Geometry I. 3 Hours.
Theory of curves and surfaces: Frenet formulas for curve, first and second fundamental forms of surface; global theory; abstract surfaces, manifolds, Riemannian geometry.
Prerequisites: MA 126 [Min Grade: C]

MA 471. Differential Geometry II. 3 Hours.
Theory of curves and surfaces: Frenet formulas for curve, first and second fundamental forms of surface; global theory; abstract surfaces, manifolds, Riemannian geometry.
Prerequisites: MA 470 [Min Grade: C]

MA 472. Geometry I. 3 Hours.
The axiomatic method; Euclidean geometry including Euclidean constructions, basic analytic geometry, transformational geometry, and Klein's Erlanger Program; introduction to fractal geometry. Course integrates intuition/exploration and proof/explanation.
Prerequisites: MA 109 [Min Grade: C] or MA 125 [Min Grade: C]

MA 473. Geometry II. 3 Hours.
Analytical geometry, Birkhoff's axioms, and the complex plane; structure and representation of Euclidean isometries; plane symmetries; non-Euclidean (hyperbolic) geometry and non-Euclidean transformations; fractal geometry; algorithmic geometry. Course integrates intuition/exploration and proof/explanation.
Prerequisites: MA 472 [Min Grade: C] and (MA 260 [Min Grade: C] or MA 434 [Min Grade: C])

MA 474. Introduction to Topology I. 3 Hours.
Essence and consequences of notion of continuous function developed. Topics include metric spaces, topological spaces, compactness, connectedness, and separation.
Prerequisites: MA 126 [Min Grade: C]

MA 475. Introduction to Topology II. 3 Hours.
Essence and consequences of notion of continuous function developed. Topics include metric spaces, topological spaces, compactness, connectedness, and separation.
Prerequisites: MA 474 [Min Grade: C]

MA 480. Introduction to Statistics. 3 Hours.
Descriptive and inferential statistics, probability distributions, estimation, hypothesis testing. Recommended that two years of high school algebra or MA 102 has been completed before taking course.

MA 484. Mathematical Finance. 3 Hours.
Prerequisites: MA 227 [Min Grade: B] or MA 260 [Min Grade: B] or MA 485 [Min Grade: B]

MA 485. Probability. 3 Hours.
Sample spaces; combinations, absolute and conditional probability; discrete and continuous random variables; probability distributions and density functions.
Prerequisites: MA 126 [Min Grade: C]

MA 486. Mathematical Statistics. 3 Hours.
Prerequisites: MA 485 [Min Grade: C]

MA 490. Mathematics Seminar. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites Permission of instructor.

MA 491. Senior Seminar. 1-3 Hour.
This seminar covers career planning, professional ethics, and an historical perspective on the development of mathematics as an integrated body of knowledge. The exit examination for the course is the Mathematics Graduate Record Examination. Prerequisite: Senior status. 1.000 Credit Hour.

MA 492. Special Topics in Mathematics. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 493. Special Topics in Mathematics. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 494. Special Topics in Mathematics. 1-6 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 495. Special Topics in Mathematics. 1-6 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 496. Special Topics in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 497. Special Topics in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 498. Research in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics. Senior standing recommended.

MA 499. Honors Research in Mathematics. 1-12 Hour.
Mentored research in mathematics leading to a written research report and a public presentation in the form of a talk or poster. Admission restricted to students admitted to Honors in Mathematics. Permission of instructor required.
MBA-Master of Business Admin Courses

MCH-Maternal and Child Health Courses

MCHW-Maternal and Child Health Courses

ME-Mechanical Engineering Courses

ME 011. Coop/Internship in ME. 0 Hours.
Engineering workplace experience in preparation for the student’s intended career.

ME 102. Engineering Graphics. 2 Hours.
Basic concepts in technical sketching, computer-aided drawing and design, projections, sections, and dimensioning.
Prerequisites: MA 105 [Min Grade: C](Can be taken Concurrently) or MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: C](Can be taken Concurrently)

ME 103. Drawing, Design and Measurement for Industrial Distribution. 3 Hours.
Technical sketching and reading of engineering drawings and analysis of systems involving human performance. For non-engineering majors. Not available for credit toward engineering major.

ME 215. Dynamics. 3 Hours.
Prerequisites: CE 210 [Min Grade: C]

ME 241. Thermodynamics I. 3 Hours.
Thermodynamic definitions, properties of a pure substance, ideal, and real gases, work, and heat. Fundamental laws of thermodynamics, entropy, reversible cycles, and irreversibility.
Prerequisites: PH 221 [Min Grade: C] and CH 115 [Min Grade: C] and CH 116 [Min Grade: C] and MA 126 [Min Grade: C](Can be taken Concurrently)

ME 242. Thermodynamics II. 3 Hours.
Application of thermodynamic principles to engineering systems; vapor power cycles; gas turbine cycles; Otto and Diesel cycles; refrigeration cycles; mixtures of ideal gases; psychrometrics.
Prerequisites: ME 126 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C])

ME 251. Introduction to Thermal Sciences. 2 Hours.
Introduction to thermodynamics and heat transfer for non-mechanical engineering majors.
Prerequisites: MA 126 [Min Grade: C] and PH 221 [Min Grade: C]

ME 302. Overview of Mechanical Components. 3 Hours.
An introduction to statics, dynamics, strength of materials, and engineering design. Transformation of energy, thermodynamics, heat transfer, and fluid mechanics. For non-engineering majors. Not available for credit toward engineering major.

ME 321. Introduction to Fluid Mechanics. 3 Hours.
Fluid properties, fluid statics, fluid in motion (control volume method), pressure variation in flowing fluids (Bernoulli equation), principles of momentum and energy transport, dimensional analysis and similitude, internal flow and external flow.
Prerequisites: ME 241 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]) and CE 210 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C])

ME 322. Introduction to Heat Transfer. 3 Hours.
Fundamentals of heat transfer and their application to practical problems, including steady and transient heat conduction, external and internal forced convection, natural convection and radiation.
Prerequisites: ME 321 [Min Grade: C]

ME 360. Introduction to Mechatronic Systems Engineering. 3 Hours.
Prerequisites: ME 215 [Min Grade: C] and ME 364 [Min Grade: C]

ME 361. Thermo-Fluids Systems. 3 Hours.
Pressure, temperature, fluid flow, and heat transfer instrumentation and their application to measurements of mass, heat, and momentum transport, flow characterization, heat engine and refrigeration cycles, and other thermal-fluids experiments. Experimental uncertainty analysis. Writing proficiency is required. ME 361L must be taken concurrently.
Prerequisites: ME 242 [Min Grade: C](Can be taken Concurrently) and ME 322 [Min Grade: C](Can be taken Concurrently)

ME 361L. Thermo-Fluids Systems Laboratory. 0 Hours.
Lab component for ME 361 Thermo-Fluids Systems. ME 361 must be taken concurrently.

ME 364. Linear Algebra and Numerical Methods. 3 Hours.
Linear equations and matrices, real vector bases, matrix decompositions, linear transformations; determinants, eigenvalues, eigenvectors; numerical methods for linear systems of equations, integration, ordinary differential equations; approximation, interpolation, least squares fits.
Prerequisites: (MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]) and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C])

ME 370. Kinematics and Dynamics of Machinery. 3 Hours.
Displacement, velocity and acceleration analysis, synthesis and design of linkages and mechanisms for various engineering applications on the basis of motion requirements. Static and dynamic force analysis of linkages, balancing of rotors and reciprocating machines. Significant consideration is given to designing geometry of gear sets: spur, helical, worm, and bevel gears. Analysis of planetary gear sets and drivetrains completes the course. Computer workshops support the learning process of main technical components.
Prerequisites: ME 102 [Min Grade: C] and ME 215 [Min Grade: C]
ME 371. Machine Design. 4 Hours.
Body stress, deflection and fatigue strength of machine components. Failure theories, safety factors and reliability, surface damage. Application to the design of gears, shafts, bearings, welded joints, threaded fasteners, belts and chains, keys, pins, springs, as well as mechanical design and selection of other machine components. Software applications, design projects, and exposure to hardware and systems are used to reinforce concepts.
Prerequisites: CE 220 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C]) and ME 370 [Min Grade: C]

ME 405. Manufacturing Processes. 3 Hours.
Processing of metals, glasses, ceramics, and composites. Power processing, casting, welding, rapid solidification, and other advanced methods.

ME 411. Intermediate Fluid Mechanics. 3 Hours.
Applications of fluid dynamic principles to engineering flow problems such as turbo-machinery flow and one-dimensional compressible flow. Vorticity, potential flow, viscous flow, Navier-Stokes solutions, and boundary layers.
Prerequisites: ME 321 [Min Grade: C] and ME 364 [Min Grade: C]

ME 421. Introduction to Computational Fluid Dynamics Basics. 3 Hours.
Governing equations for fluid flows, classifications of flow regimes, and approaches to analyze fluid flow problems. Introduction to Computational Fluid Dynamics (CFD), mesh generation, boundary conditions, numerical solution of equations governing fluid flows, and visualization. Hands-on exercises using a commercial CFD solver.
Prerequisites: ME 321 [Min Grade: C]

ME 430. Vehicular Dynamics. 3 Hours.
Introduction to the fundamentals of mechanics and analytical methods for modeling vehicle dynamics and performance. Topics include tire-road interaction modeling, vehicle longitudinal dynamics and traction performance, lateral dynamics, handling, stability of motion and rollover, as well as contribution of the drivetrain system, steering system and suspension configurations to the dynamics of a vehicle. Software applications, projects, and exposure to hardware and systems are used to reinforce concepts.
Prerequisites: ME 215 [Min Grade: C]

ME 445. Combustion. 3 Hours.
Evaluation of the impact of fuel characteristics and operating conditions on the performance of coal-fired electric utility steam-raising plant and the prospects for continued reliance on coal as fuel for electric power generation. The phenomena emphasized are the behavior of turbulent jets; ignition, devolatilization and combustion of coal particles; radiative heat transfer and the effect of ash deposits on heat transfer; formation of air pollutants and their removal from combustion products; integrated gasification combined cycle; and capture and sequestration of carbon dioxide.
Prerequisites: ME 242 [Min Grade: C] and ME 322 [Min Grade: C]

ME 448. Internal Combustion Engines. 3 Hours.
Fundamentals of reciprocating internal combustion engines: engine types, engine components, engine design and operating parameters, thermo-chemistry of fuel-air mixtures, properties of working fluids, ideal models of engine cycles, engine operating characteristics, gas-exchange processes, fuel metering, charge motion within the cylinder, combustion in spark-ignition and compression ignition engines. Software applications, projects, and exposure to hardware and systems are used to reinforce concepts.
Prerequisites: ME 215 [Min Grade: C] and ME 242 [Min Grade: C]

ME 449. Power Generation. 3 Hours.
Application of thermodynamics, fluid mechanics, and heat transfer to conversion of useful energy. Includes terrestrial and thermodynamic limitations, fossil fuel power plants, renewable energy sources, and direct energy conversion.
Prerequisites: ME 242 [Min Grade: C]

ME 454. Heating, Ventilating and Air Conditioning. 3 Hours.
Fundamentals and practice associated with heating, ventilating, and air conditioning; study of heat and moisture flow in structures, energy consumption, and design of practical systems.
Prerequisites: ME 322 [Min Grade: C]

ME 455. Thermal-Fluid Systems Design. 3 Hours.
Comprehensive design problems requiring engineering decisions and code/Standard compliance. Emphasis on energy system components: piping networks, pumps, heat exchangers. Includes fluid transients and system modeling.
Prerequisites: ME 322 [Min Grade: C]

ME 461. Mechanical Systems. 3 Hours.
This course concentrates on main technical principles and aspects of mechanical systems design. The course also provides fundamental knowledge on test equipment and experimental techniques for experimenting on main technical principles of mechanical design. This course discusses data acquisition systems and signal conditioning, and design of experiments. Writing proficiency is required. ME 461L must be taken concurrently.
Prerequisites: CE 220 [Min Grade: C] and ME 215 [Min Grade: C]

ME 461L. Mechanical Systems Laboratory. 0 Hours.
Lab Component of ME 461 Mechanical Systems. ME 461 must be taken concurrently.

ME 464. Introduction to Finite Element Method. 3 Hours.
Prerequisites: CE 220 [Min Grade: C]

ME 475. Mechanical Vibrations. 3 Hours.
Prerequisites: ME 360 [Min Grade: C] (MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]) and ME 215 [Min Grade: C]
ME 476. Failure Analysis. 3 Hours.
Procedures for failure analysis, failure mechanisms, examples of service failures, and methods to prevent failures.
Prerequisites: MSE 280 [Min Grade: C] and CE 220 [Min Grade: C]

ME 489. Undergraduate Research in Mechanical Engineering. 0 Hours.
Undergraduate research experiences in mechanical engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C] or EGR 100 [Min Grade: C] or EGR 200 [Min Grade: C]) and MA 125 [Min Grade: C] and PH 221 [Min Grade: C] (Can be taken Concurrently)

ME 490. Special Topics in (Area). 1-4 Hour.
Special Topics in (Area).

ME 491. Individual Study in (Area). 1-4 Hour.
Individual Study in (Area).

ME 494. Mechanical Engineering Seminar. 1 Hour.
Required for ME undergraduate Honors Program students. Presentations by students, faculty, and guests regarding current research.

ME 496. Honors Research. 1-6 Hour.
Research opportunities for undergraduate students in the Mechanical Engineering Honors Program.
Prerequisites: EGR 301 [Min Grade: P]

ME 498. Capstone Design Project I. 2 Hours.
Capstone design project: interdisciplinary design teams, ethics, materials selection, design process, development of proposal, project planning and scheduling, project execution and resource scheduling, and communication of design.
Prerequisites: ME 371 [Min Grade: C] and MSE 401 [Min Grade: C] (Can be taken Concurrently) or ME 405 [Min Grade: C] (Can be taken Concurrently)

ME 499. Capstone Design Project II. 3 Hours.
Completion of ME 498. Capstone interim and final design reviews with written and oral reports. ME 498 must be taken the term immediately before ME 499.
Prerequisites: ME 498 [Min Grade: C]

MED-Medical School Courses

MED 100. First Year Med Student Billing. 18 Hours.

MED 101. First Year Med Student Billing. 18 Hours.

MED 200. 2nd Year Med Student Billing. 18 Hours.

MED 201. 2nd Year Med Student Billing. 18 Hours.

MED 300. 3rd Year Med Student Billing. 18 Hours.

MED 301. 3rd Year Med Student Billing. 18 Hours.

MED 400. 4th Year Med Student Billing. 18 Hours.

MED 401. 4th Year Med Student Billing. 18 Hours.

MESC-Marine Environmental Sci Courses

MESC 106. Introduction to Oceanography. 4 Hours.
General introduction to the physics, chemistry, geology, and biology of the ocean. Lecture, laboratory, and field trips.

MESC 128. Ocean Science. 4 Hours.
Marine environment and relation of ocean to man. Lecture, laboratory, and field work. For non-science majors. Does not count towards the biology major or minor. General elective credit only.

MESC 201. Oceanography of the Gulf of Mexico. 2 Hours.
Descriptive study of the oceanography of the Gulf of Mexico and adjacent waters, including coastal zone, continental shelf, and deep ocean.

MESC 204. Coastal Geomorphology. 2 Hours.
Shape and land forms along coast; factors determining formation. Lecture and lab.

MESC 206. Marine Biology. 4 Hours.
Invertebrates, vertebrates, and marine plants. Lecture, laboratory, and field work. Permission of instructor required.
Prerequisites: BY 124 [Min Grade: D]

MESC 207. Commercial Marine Fisheries of Alabama. 2 Hours.
Biology, harvest techniques, processing, and economic value of local commercial species.

MESC 208. Biology and Conservation of Marine Turtles. 2 Hours.
Overview of the biology and conservation of marine turtles. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: D]

MESC 209. Hurricanes of the Gulf of Mexico. 2 Hours.
Survey of hurricane formation and impacts with emphasis on hurricanes in the Gulf of Mexico. Does not count towards the biology major or minor. General elective credit only.

MESC 213. Shark & Ray Biology. 2 Hours.
Introduction to the biology of sharks and rays, with emphasis on regional shark and ray fauna. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C]

MESC 216. Shark and Ray Biology. 2 Hours.
Introduction to the biology of sharks and rays, with emphasis on regional shark and ray fauna. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C]

MESC 302. Coastal Zone Management. 2 Hours.
Ecological features and social-physical management policies for coastal communities, with description of relevant federal and state programs.

MESC 303. Coastal Climatology. 2 Hours.
Physical factors resulting in climatic conditions of coastal regions, with emphasis on northern Gulf of Mexico. Does not count towards the biology major or minor. General elective credit only.

MESC 304. Marine Geology. 4 Hours.
Geology of ocean basins, with emphasis on continental shelves, sediments, and sedimentary processes.
Prerequisites: ES 101 [Min Grade: D] and ES 102 [Min Grade: D]

MESC 305. Dolphins and Whales. 2 Hours.
Classification, anatomy, and ecology of cetaceans. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: D]

MESC 402. Marine Vertebrate Zoology. 4 Hours.
Marine fishes, reptiles, and mammals (systematics, zoogeography, and ecology). Lecture, laboratory, and field work. 12 semester hours in biology required.

MESC 407. Marine Botany. 4 Hours.
Marine algae and vascular and non-vascular plants (distribution, identification, structure, ecology, and reproduction). Lecture, laboratory, and field work. 12 semester hours in biology required.

MESC 411. Costal Wetlands Ecology. 4 Hours.
Habitat analysis, natural history studies, and population dynamics of selected organisms. Lecture, laboratory, and field work.
Prerequisites: MESC 412 [Min Grade: D] or BY 470 [Min Grade: D]
MESC 412. Marine Ecology. 4 Hours.
Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems. Lecture, laboratory and field work.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D]

MESC 413. Marine Invertebrate Zoology. 4 Hours.
Natural history, systematics, and morphology of marine invertebrates. Lecture, laboratory and field work.
Prerequisites: BY 124 [Min Grade: D]

MESC 415. Coastal Ornithology. 2 Hours.
Coastal and pelagic birds, with emphasis on ecology, taxonomy, and distribution. Lecture, laboratory, and field work.
Prerequisites: BY 124 [Min Grade: D]

MESC 417. Marine Technical Methods. 2 Hours.
Hardware of marine science, sampling procedures, processing station location, and field equipment maintenance and operation. Prerequisite: 12 semester hours in a science discipline.

MESC 428. Oceanography. 4 Hours.
Physics, chemistry, biology, and geology of oceans.
Prerequisites: CH 117 [Min Grade: D] and CH 118 [Min Grade: D] and PH 202 [Min Grade: D] and MA 106 [Min Grade: D]

MESC 472. Marine Aquaculture. 2 Hours.
Science, techniques, and economics of marine aquaculture. Lecture and laboratory. BY 255 is a recommended prerequisite.
Prerequisites: BY 256 [Min Grade: D] or BY 435 [Min Grade: D]

MESC 473. Marine Fish Diseases. 4 Hours.
Introduction to aquatic animal diseases, specifically for fish and shellfish.
Prerequisites: BY 271 [Min Grade: D] and (BY 255 [Min Grade: D] or BY 256 [Min Grade: D])

MESC 475. Marine Behavioral Ecology. 4 Hours.
Behavior of marine organisms as it relates to survival in their environment. Lecture, laboratory and field trips.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D]

MESC 478. Advanced Anatomy and Evolution of Marine Fishes. 3 Hours.
Anatomical studies of marine fishes with emphasis on function and structure; evolutionary and taxonomic relationships.
Prerequisites: BY 256 [Min Grade: D]

MESC 479. Marine Toxicology. 4 Hours.
Selected topics of toxicology as related to the coastal environment and marine organisms.
Prerequisites: BY 330 [Min Grade: D] and (CH 235 [Min Grade: D] or CH 237 [Min Grade: D])

MESC 491. Research on Special Topics. 1-6 Hour.
Enrollment by special arrangement in any subject listed. Permission of MESC representative, Department of Biology required.

MESC 492. Special Topics: Lecture. 2-4 Hours.
Lectures on selected marine-related topics. Course content varies.

MG-Management Courses

MG 302. Management Processes and Behavior/SL. 3 Hours.
Planning and ethical decision making; organization of process and design concepts; leadership, contemporary management issues, and communication within organizations; motivation, job attitudes, diversity, and performance evaluation; process control. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 305. Nonprofit Organization Mgmt. 3 Hours.
The purpose of this course is to expose students to the historical origins of NPOs/NGOs, their favored tax status, and demands of transparency and accountability of achieving their stated missions. This course also exposes students to the challenges of managing a voluntary workforce, identifying revenue streams to fund activities, and developing strategies to ensure value creation in the nonprofit setting. This course is experiential. Students will explore the various aspects of the nonprofit sector academically and will also get first hand experience with a chosen NPO/NGO.

MG 358. Business and Society. 3 Hours.
Economic and social consequences of contemporary issues such as public policy, management of legal/political process, standard-setting for ethical behavior, and environmental changes in 1990s. Emergence of global competition and effects on social and economic interests of multinational corporations. Junior standing required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 401. Organizational Behavior. 3 Hours.
Theories of human motivation with applications; intra- and intergroup processes and leadership theories with applications; organizational environment and classical design theory; planned change with applications; organizational development and culture.
Prerequisites: (MG 302 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 403. Operations Management. 3 Hours.
Operations management as related to manufacturing and non-manufacturing enterprises. Forecasting, inventory theory, scheduling, production control, facility layout, job design, and supporting functions.
Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 409. Human Resource Management. 3 Hours.
Managerial problems associated with acquisition, development, motivation, and compensation of human resources. Personnel problems such as employment, employee education and training, labor relations, industrial health and safety, and wage and salary administration; personnel research cases reviewed.
Prerequisites: (MG 302 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 410. Labor-Management Relations. 3 Hours.
Managerial issues and opportunities associated with development of industrial and labor relations policy. Impact of public policy, significance of pressure groups, negotiation and administration of collective bargaining agreements, and review of NLRB/arbitration cases.
Prerequisites: MG 409 [Min Grade: C] (Can be taken Concurrently) and GPAT and GPAO 2.00) or MG 409 [Min Grade: C] (Can be taken Concurrently) and GPAU 2.00 and GPAO 2.00)
MG 411. Compensation Administration. 3 Hours.
Problems of compensation administration in public and private organizations, with emphasis on determination of range, salary levels, and structures. Job analysis, worker-trait-requisite analysis, job evaluation, incentive pay systems, employee benefits development, and wage and salary control.

**Prerequisites:** (MG 409 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 412. Employee Selection and Development. 3 Hours.
Employee selection, placement, and development functions within organizations. Recruitment, selection techniques, and state and federal laws and regulations affecting selection, performance appraisal, and development of manpower within organization.

**Prerequisites:** (MG 409 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 413. Employment Law. 3 Hours.
Impact of legislation, regulations, and court decisions on management of human resources in public and private organizations. Equal employment opportunity, health and safety, pension reform legislation, employment insurance, and social security. Junior standing required.

**Prerequisites:** (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 415. International Business Dynamics. 3 Hours.
Business and managerial problems of international business activity. Emphasis on relating current international information to problems and opportunities for business firms. Preq: C or better in AC 201, BUS 101 or BUS 102, EC 210, EC 211, IS 103, LS 248, QM 215 and MG 302.

**Prerequisites:** (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and IS 103 [Min Grade: C] and EC 210 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and EC 211 [Min Grade: C] and EC 210 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and EC 210 [Min Grade: C] and IS 103 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C])

MG 416. Supply Chain Management. 3 Hours.
Course takes operational view of the mechanism for matching supply and demand through the management of material and information flow. This framework is used to understand strategic, design and operational issues in supply management.

**Prerequisites:** (MG 403 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 417. Project Management. 3 Hours.
Course discusses project management principles, methods, techniques and tools from manager’s point of view. Topics include: planning, scheduling, organizing and controlling non-routine activities to achieve schedule, budget and performance objectives. Also discussed: socio-technical aspects of projects, role of project managers, project teams and scheduling and executing projects under uncertainty.

**Prerequisites:** AC 200 [Min Grade: C] and AC 201 [Min Grade: C] and IS 103 [Min Grade: C] and LS 246 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 214 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 418. Quality Management. 3 Hours.
Concepts, techniques, and organizational requirements to ensure that quality is provided to consumer. Breadth of quality efforts, statistical quality control methods, quality circle principles, and quality assurance activities in various enterprises.

**Prerequisites:** (MG 403 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 425. Mnging through Ldrship. 3 Hours.
Leaders who inspire people to work together can deliver results and services faster, better and more cost effectively. This course is designed to provide students with a comprehensive understanding of leadership as a phenomenon, with an emphasis on developing the skills to lead others. Major theories of leadership will be examined and students will gain insights about their individual strengths and weaknesses. Through hands-on experiences and workshops, students will develop and acquire the skills to lead high-performance teams that can optimize their productivity and deliver high-quality results.

MG 430. Management and Leadership in Sports Organizations. 3 Hours.
Management and leadership theories and practices as they relate to sport organizations. Provides a foundation in the research and application of human resource management and leadership principles for success in the sport industry. Junior standing required. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.

**Prerequisites:** (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 445. Management Internship. 3 Hours.
Offers qualified undergraduate students the chance to gain first-hand experience in a local business while receiving academic credit. Must be a management major, at least junior standing, B or better in MG 302 and GPA of 2.5 overall. Sponsoring business may require additional courses.

**Prerequisites:** (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 490. Management Seminar/SL. 3 Hours.
Selected management topics. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.

**Prerequisites:** (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 492. Current Topics in Production and Operations Management. 3 Hours.
Selected topics in production and operations management.

**Prerequisites:** (MG 403 [Min Grade: C] and GPAT and GPAO 2.00) and (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 493. Current Topics in Human Resource Management. 3 Hours.
Current development and issues in human resource management.

**Prerequisites:** (MG 409 [Min Grade: C] and GPAT and GPAO 2.00) and (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 499. Directed Readings in Management. 1-3 Hour.
Specific areas in management.

**Prerequisites:** (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MGE-Medical Genetics Courses
**MIC-Microbiology Courses**

**MIC 200. Microbiology. 4 Hours.**
Basic principles of microbiology, including immunology, microbial physiology and genetics, microbial pathogenesis and virology, and to relate the importance of these principles to the actual host/microbial interrelationships the student may encounter in the professional career. Emphasis will be placed on providing an understanding of mechanisms involved in mediating ocular health and diseases.

**MK-Marketing Courses**

**MK 101. Introduction to Consumer Marketing. 3 Hours.**
Survey course designed to provide understanding of business marketing practices and consumer decision making processes. Open to all UAB students.

**MK 303. Basic Marketing. 3 Hours.**
Survey course of the modern business process for planning, distributing, promoting and pricing of products (goods and services) for domestic and international organizations. 
**Prerequisites:** (MA 105 [Min Grade: C] or MA 109 [Min Grade: C] or MA 125 [Min Grade: C]) and (AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MA 105 [Min Grade: C] and MA 109 [Min Grade: C] or MA 125 [Min Grade: C]) and (AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 312. Retail Marketing. 3 Hours.**
Business to consumer marketing with consideration for location, organization, buying, receiving stock inventory and control, policies, pricing, services, control and personnel management within retail establishments. 
**Prerequisites:** (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 313. Business to Business Marketing. 3 Hours.**
Role of supply chain management and industrial marketing. Planning, organizing, implementing and controlling channels of distribution. 
**Prerequisites:** (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 314. Consumer Behavior. 3 Hours.**
Determinants of consumer behavior, cultural, social, family, economic and business environments within which consumer purchase decisions are made. *Prereq:C or better AC 201, EC 211, IS 103, LS 246, QM 215 and MK 303.*
**Prerequisites:** (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 320. Industrial Distribution Management. 3 Hours.**
Introduction to basic problems, concepts, and management practices of industrial distribution firms and manufacturing relationships. History of types of distributor organizations, functions, and role of industrial distribution in economy. 
**Prerequisites:** (AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and MA 105 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MA 105 [Min Grade: C] and AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 330. Professional Selling. 3 Hours.**
This course combines personal selling theory with actual practice. Students are required to give sales presentations, interact with professional sales representatives, analyze cases, participate in a variety of experiential exercises, use technology extensively, and practice both written and oral business communication. 
**Prerequisites:** (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 401. Social Media in Marketing. 3 Hours.**
Survey course of the unique aspects of marketing through social media. The focus is on the application of new and emerging social media communications systems and practices that are becoming major elements in integrated marketing communication programs. 
**Prerequisites:** MK 303 [Min Grade: C]

**MK 408. Marketing Research. 3 Hours.**
Research techniques in marketing with application of research findings to decision making and formulation of marketing strategies. 
**Prerequisites:** (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

**MK 410. Integrated Marketing Communication. 3 Hours.**
Considers the organizations coordinated and strategic use of communication tools used in marketing including advertising, sales promotion, direct marketing, interactive media, publicity/public relations, sponsorship marketing, point-of-purchase communications and personal selling. 
**Prerequisites:** (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
MK 416. International Marketing. 3 Hours.
International marketing activities, including environmental issues, marketing strategy and tactical considerations in entering foreign markets.  
Prerequisites: (AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 418. Introduction to E-Commerce. 3 Hours.
Management of Internet Technology into the marketing function of organization. Web-based business models, customer support, on-line quality, product pricing, and Internet based channels of distribution development studied. Prereq: C or better in AC 201, EC 211, IS 103, LS 246, QM 215 and MK 303.
Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 419. Services Marketing. 3 Hours.
Understanding service customers, customer satisfaction, motivating service employees, improving service quality and role of services in strategy planning.
Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 420. Sales Management. 3 Hours.
Management of personal sales force including recruiting, selecting, training, compensating, and evaluating sales personnel; planning, implementing, and controlling selling strategies.
Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 421. Entrepreneurship and Marketing Planning. 3 Hours.
Deals with the starting, managing and nurturing a new business venture. Emphasis on development of marketing/business plans including market/industry/competitor analysis. Project based course.
Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 425. Advanced Professional Selling. 3 Hours.
Course extends the knowledge and skills needed in a professional career in selling. Admittance to the Profession Sales Certificate Program required.
Prerequisites: (MK 320 [Min Grade: C] and MK 330 [Min Grade: C] and MK 420 [Min Grade: C] and BUS 350 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 320 [Min Grade: C] and MK 330 [Min Grade: C] and MK 420 [Min Grade: C] and BUS 350 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 430. Industrial Distribution Operations. 3 Hours.
Concepts of value added, profitability, inventory management, scheduling, decision support systems, facilities, and warehouse operations integrated with financial control of distributor operations. Case studies and industrial speakers.
Prerequisites: (MK 320 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 435. Industrial Distribution Policies and Quality Issues. 3 Hours.
Cases incorporating current approaches and procedures for attaining optimum manufacturer/distributor/customer relationships. Methods for planning, implementing, and controlling distribution strategies. Market demand analysis, profitability and multi-branch operations, quality assurance, TQM concepts, and forecasting. Prereq: C or better in AC 201, EC 211, IS 103, LS 246, QM 215 and MK 303 and MK 430 which may be taken co-requisite.
Prerequisites: MK 430 [Min Grade: C] Can be taken Concurrently) and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 320 [Min Grade: C] and MK 330 [Min Grade: C] and MK 420 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 320 [Min Grade: C] and MK 330 [Min Grade: C] and MK 420 [Min Grade: C] and BUS 350 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 434. Small Business Consulting and Research. 3 Hours.
Applied field work integrating functional business fields of management, finance, accounting, marketing, economics, production policy, and decision making related to small business enterprises.
Prerequisites: FN 310 [Min Grade: C] and MG 302 [Min Grade: C] and MK 303 [Min Grade: C]

MK 445. Marketing Internship. 3 Hours.
Offers qualified undergraduate students the chance to gain first-hand experience in a local business while receiving academic credit. Marketing major and junior standing required. Sponsoring business may require additional courses.
Prerequisites: (MK 303 [Min Grade: B] and GPAU 2.00 and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: B] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
MK 450. Strategic Marketing. 3 Hours.
Course addresses problems of marketing management with emphasis on planning, implementing and controlling marketing activities with individual firms.
Prerequisites: (BUS 350 [Min Grade: C] and FN 310 [Min Grade: C] and MK 312 [Min Grade: C] and MK 320 [Min Grade: C] and MK 408 [Min Grade: C] and MK 410 [Min Grade: C] and GPAT and GPAO 2.00) or (BUS 350 [Min Grade: C] and FN 310 [Min Grade: C] and MK 312 [Min Grade: C] and MK 320 [Min Grade: C] and MK 408 [Min Grade: C] and GPA 2.00 and GPA 2.00)

MK 471. Health Care Marketing. 3 Hours.
This class is designed for upper level students with an interest in and/or who seek employment in the healthcare industry. It is also appropriate for seniors in Medical Equipment Sales and Distribution. The primary objective of this course is to provide students with a comprehensive overview of the marketing fundamentals in the health care environment. The course examines health care organizations as customers in a Business to Business environment as well as the special challenges in implementing marketing strategies.

MK 490. Special Topics in Marketing. 3 Hours.
Selected marketing topics not covered in other marketing courses.
Prerequisites: (MK 303 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and GPA 2.00 and GPA 2.00)

MK 495. Industrial Distribution Directed Studies/Practicum. 2 Hours.
Problems in management of industrial distribution firms, both as suppliers for and customers of manufacturers and other businesses. Students work with host distributor/manufacturer on current and future distribution problem areas.
Prerequisites: (GPAT and GPAO 2.00) or (GPAT 2.00 and GPAO 2.00)

MK 499. Directed Readings in Marketing. 1-3 Hour.
Specific areas in marketing.
Prerequisites: (GPAT and GPAO 2.00) or (GPAT 2.00 and GPAO 2.00)

MPA-Master of Public Admin Courses

MS-Military Science Courses

MS 101. Military Leadership. 2 Hours.
Foundations of officership, examines the unique duties and responsibilities of officers. Discusses organization and role of the Army; reviews basic life skills pertaining to fitness and communication; analyzes Army values and expected ethical behavior.

MS 101L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 102. Military Leadership. 2 Hours.
Basic leadership presents fundamental leadership concepts and doctrine. Practices basic skills that underlie effective problem solving; applies active listening and feedback skills; examines factors that influence leader and group effectiveness and examines the officer experience.

MS 102L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 103. Military Science I. 2 Hours.
Action-oriented. Gives you an opportunity to conquer your fears by facing extraordinary activities such as rappelling from a 40-foot tower, firing live rounds from an assault rifle, water survival, and orienteering. Water survival, hiking, canoeing, rappelling, marksmanship.

MS 110. Physical Training. 1 Hour.
Introduces students to life fitness skills and techniques that can increase personal health, invigorate physical activities, and enhance productivity and mental alertness.

MS 111. Physical Training. 1 Hour.
Introduces students to life fitness skills and techniques that can increase personal health, invigorate physical activities, and enhance productivity and mental alertness.

MS 112. Physical Training. 1 Hour.
Introduces students to life fitness skills and techniques that can increase personal health, invigorate physical activities, and enhance productivity and mental alertness.

MS 113. Physical Training. 1 Hour.
Based on the armed forces physical fitness program.

MS 114. Physical Training. 1 Hour.
Cardiorespiratory and muscle endurance fitness program based on the armed forces physical fitness training program. Cardiorespiratory endurance, muscle strength, muscle endurance, flexibility, and body composition.

MS 115. Physical Training. 1 Hour.
Cardiorespiratory and muscle endurance fitness program based on armed forces physical fitness training. Cardiorespiratory endurance, muscle strength, muscle endurance, flexibility, and body composition.

MS 157. Outdoor Adventures. 2 Hours.
Action-oriented. Gives you an opportunity to conquer your fears by facing extraordinary activities such as rappelling from a 40-foot tower, firing live rounds from a rifle, water survival and orienteering. Other events may be scheduled including paintball, hiking, skeet/trap shooting, and canoeing.

MS 201. Military Leadership. 2 Hours.
Quality Leadership and Management. Emphasizes individual skills necessary to be a successful leader and manager. Instruction on written and interpersonal communications, briefing/presentation skills, hands-on office equipment and computer software training. First aid and map reading.

MS 201L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 202. Military Leadership. 2 Hours.
Continuation of Quality Leadership and Management. Through lecture, activities, films, short readings, and discussion, students examine leadership dynamics, individual and group behavioral processes and team building. Analysis of professional values and ethics. Decision making and problem solving skills.
MS 302L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 203. Leadership and Management. 2 Hours.
Quality Leadership and Management. Group and individual physical fitness programs. Health and nutrition, weight control management and counseling techniques, safety management. Logistics management, planning and organizational skills, meeting management, general employee counseling techniques.

MS 204. Rangers. 1 Hour.
Develop leadership qualities of ROTC cadets through small unit tactics, self discipline, self confidence, and resourcefulness. Cadets participate in physical training. Enrolled cadets may participate in the two-day, 27-school South East Conference invitational varsity Ranger Challenge competition.

MS 205. Rangers. 1 Hour.
Develop leadership qualities of ROTC cadets through small unit tactics, self discipline, self confidence, and resourcefulness. Cadets participate in physical training. Enrolled cadets may participate in the two-day, 27-school South East Conference invitational varsity Ranger Challenge competition.

MS 206. Rangers. 1 Hour.
Develop leadership qualities of ROTC cadets through small unit tactics, self discipline, self confidence, and resourcefulness. Cadets participate in physical training. Enrolled cadets may participate in the two-day, 27-school South East Conference invitational varsity Ranger Challenge competition.

MS 207. Airborne Operations. 3 Hours.
This course requires 210 hours of student participation in airborne operations. The student will keep a journal of daily operations at airborne school in order to develop an airborne school for dummies booklet to be used as a guide for cadets and cadre when faced with questions about airborne school. The student must produce a point paper that discusses the relevancy or lack of relevancy of airborne operations in today’s Army.

MS 210. History of US Army. 3 Hours.

MS 250. Camp Challenge. 6 Hours.
Summer, off-campus, all-expense paid, hands-on seminar. Trains students in MS 100 and 200 level skills. Attending students qualify to compete for special 2-year, full scholarships to UAB.

MS 253. Basic Military Studies. 3 Hours.
Physical training, leadership, communication skills. Designed for students who are not able to take scheduled MS 201, 202, and 203 classes. Taken only with permission of Professor of Military Science.

MS 300. Military Leadership. 3 Hours.
Prerequisites: MS 101 [Min Grade: D] and MS 102 [Min Grade: D] and MS 201 [Min Grade: D] and MS 202 [Min Grade: D]

MS 300L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the PMS to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 301. Military Leadership. 3 Hours.
Leadership and Problem solving examines basic skills that underlie effective problem solving; analyzes the role officers played in the transition of the Army from Vietnam to the 21ST century; reviews the features and execution of the Leadership Development Program; analyzes military missions, plan military operations and executes squad battle drills.

Prerequisites: MS 101 [Min Grade: C] and MS 102 [Min Grade: C] (Can be taken Concurrently) and MS 201 [Min Grade: C] and MS 202 [Min Grade: C]

MS 301L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also, assist in assessing subordinate cadet leaders.

MS 302. Military Leadership. 3 Hours.
Leadership and Ethics probes leader responsibilities that foster an ethical command climate; develops cadet leadership competencies; prepares for success at National Advanced Leadership Camp; recognizes leader responsibility to accommodate subordinate spiritual needs; applies principles and techniques of effective written and oral communication.

Prerequisites: MS 301 [Min Grade: C]

MS 302L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 303. Military Science III. 3 Hours.
Platoon defensive and offensive measures; platoon movement techniques and command and staff functions. Incorporates all cadet skills for the Leadership Development and Assessment Course at Fort Lewis, Washington.

Prerequisites: MS 301 [Min Grade: C] and MS 302 [Min Grade: C]

MS 305. Leadership Lab. 1 Hour.

Prerequisites: MS 101 [Min Grade: D] and MS 102 [Min Grade: D] and MS 103 [Min Grade: D] and MS 201 [Min Grade: D] and MS 202 [Min Grade: D] and MS 203 [Min Grade: D]

MS 306. Advance Military Leadership. 3 Hours.
Cadets refine personal skill levels of orienteering, rifle marksmanship, communications and physical training. Evaluation of peers required to determine personal effectiveness. Class enhances cadet skills for the National Advanced Leadership Camp.

MS 327. American Military History. 3 Hours.
Survey of American Military History from 1775 to present.

MS 400. Military Leadership. 3 Hours.

Prerequisites: MS 301 [Min Grade: D] and MS 302 [Min Grade: D]

MS 401. Military Leadership. 3 Hours.
Oral and written presentation skills, including writing and reviewing selections of military correspondence and forms; presentation of performance-oriented training; conduct of briefings and meetings; analysis of organizational morals and ethics.

Prerequisites: MS 302 [Min Grade: C] and MS 301 [Min Grade: C]
**MS 401L. Leadership Lab. 0 Hours.**
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

**MS 402. Military Leadership. 3 Hours.**
Military justice system and junior officer’s use of it; Army personnel management, logistics system, and personal support agencies.

**Prerequisites:** MS 301 [Min Grade: C] and MS 302 [Min Grade: C] and MS 401 [Min Grade: C]

**MS 402L. Leadership Lab. 0 Hours.**
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

**MS 403. Military Science IV. 3 Hours.**
Oral and written presentation skills; presentation and briefing skills; leadership and ethical analyses supported by case studies; military justice system, personnel, and supply management systems.

**Prerequisites:** MS 301 [Min Grade: C] and MS 302 [Min Grade: C] and MS 303 [Min Grade: C] and MS 401 [Min Grade: C] and MS 402 [Min Grade: C]

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**MSE-Material Science Egr Courses**

**MSE 011. Coop/Internship in MSE. 0 Hours.**
Engineering workplace experience in preparation for the student’s intended career.

**MSE 280. Engineering Materials. 3 Hours.**
Fundamentals of materials engineering, including terminology, mechanical testing and behavior, heat treating, and processing of metals, ceramics, polymers, and composites. Degradation of materials and criteria for materials selection. Course requires completion of 4 credits of Area III Science.

**MSE 281. Physical Materials I. 4 Hours.**
Structure of metals, ceramics and polymers; crystal bonding; phase diagrams, diffusion, dislocations and grain boundaries. Applications to the iron-carbon system, including heat treatment. MSE 281L must be taken concurrently.

**Prerequisites:** MA 125 [Min Grade: C] and MSE 280 [Min Grade: D]

**MSE 281L. Physical Materials I Laboratory. 0 Hours.**
Laboratory component of MSE 281 and must be taken concurrently.

**MSE 350. Introduction to Materials. 3 Hours.**
Concepts and applications, crystal structure of materials, formation of microstructures, and selected structure-property relationships. Not available for credit toward engineering major. For non-engineering majors only.

**MSE 380. Thermodynamics of Materials. 3 Hours.**
First, second, and third laws of thermodynamics. Gibbs free energy, heat capacity, enthalpy, entropy, and relationships between thermodynamic functions. Free-energy versus composition relationships; behavior of ideal and non-ideal solutions; concept of thermodynamic activity of components in solution. Applications to materials systems.

**Prerequisites:** CH 117 [Min Grade: D] and CH 118 [Min Grade: D] and MA 126 [Min Grade: C] and MSE 280 [Min Grade: D]

**MSE 381. Physical Materials II. 3 Hours.**
Microstructural changes in response to temperature and time; vacancies, annealing, diffusion, nucleation and growth kinetics. Equilibrium and non-equilibrium microstructures. Applications to precipitation hardening and solidification of metals.

**Prerequisites:** MSE 281 [Min Grade: D]

**MSE 382. Mechanical Behavior of Materials. 3 Hours.**
Microscopic deformation mechanisms in materials leading to macroscopic properties of fatigue; creep; ductile, transitional, and brittle fracture; friction; and wear. CE 220 (Mechanics of Solids) is recommended as a prerequisite for this course.

**Prerequisites:** MSE 281 [Min Grade: D]

**MSE 401. Materials Processing. 3 Hours.**

**Prerequisites:** MSE 281 [Min Grade: D]

**MSE 402. Frontiers of Materials. 3 Hours.**
Advanced lightweight automotive materials, manufacturing and modeling techniques. Technology advancements in cost-effective carbon, glass and related reinforcements; “green” and sustainable materials, crashworthiness and injury protection of occupants and pedestrians, metal castings, heavy truck, mass transit, fuel cell and hybrid vehicles. Students taking this class will receive a GATE certificate of training in automotive materials technologies upon successful completion.

**Prerequisites:** MSE 281 [Min Grade: D]

**MSE 407. Interpretation of Microstructure. 3 Hours.**
Interpretation of metal and ceramic microstructures with respect to their general type and origin and their relationship to their composition, type of phase diagram, processing, and the driving forces and kinetics of their evolution. The student will learn to identify the prior processing of a material and design means of modification to produce alternate structures.

**Prerequisites:** MSE 381 [Min Grade: C]

**MSE 408. Nanomaterials. 3 Hours.**
The emphasis of this course will be to introduce the basic tools of nanotechnology, building blocks of nanostructured materials, the behavior of materials with nanoscale structures and their technological applications, including automotive, medical, and electronic, etc.

**Prerequisites:** MSE 280 [Min Grade: C]

**MSE 409. Principles of Metal Casting. 3 Hours.**
Production and evaluation of cast ferrous metals (gray iron, ductile iron, steel) and non-ferrous metals (brass, bronze, aluminum). Design of castings and molds. Laboratory on the gating, risering and molten metal treatment, analysis and handling techniques required to produce high quality castings. MSE 409L must be taken concurrently.

**Prerequisites:** MSE 280 [Min Grade: D]

**MSE 409L. Principles of Metal Casting Laboratory. 0 Hours.**
Laboratory component of MSE 409 and must be taken concurrently.
MSE 413. Composite Materials. 3 Hours.
Processing, structure, and properties of metal-, ceramic-, and polymer-matrix composite materials. Roles of interfacial bond strength, reinforcement type and orientation, and matrix selection in physical and mechanical properties of composite materials. MSE 382 (Mechanical Behavior of Materials) is recommended as a prerequisite for this course. Writing is a significant component of this course (QEP).
Prerequisites: MSE 281 [Min Grade: D]

MSE 430. Polymeric Materials. 3 Hours.
Processing methods, structure/engineering/property relationships, and applications of polymeric materials.
Prerequisites: MSE 281 [Min Grade: D] and CH 117 [Min Grade: D] and CH 118 [Min Grade: D]

MSE 430L. Polymeric Materials Laboratory. 0 Hours.
Laboratory component of MSE 430 and must be taken concurrently.

MSE 433. Nondestructive Evaluation of Materials. 3 Hours.
Principles, applications, and limitation of ultrasonic vibrations, acoustic emission, radiographic, magnetic particle, eddy current, and other nondestructive testing methods. Intelligent sensors and health monitoring of real structures.
Prerequisites: MSE 465 [Min Grade: D]

MSE 464. Metals and Alloys. 4 Hours.
Microstructures, properties, heat treatment, and processing of ferrous and nonferrous materials.
Prerequisites: MSE 281 [Min Grade: D]

MSE 464L. Metals and Alloys Laboratory. 0 Hours.
Laboratory component of MSE 464 and must be taken concurrently.

MSE 465. Characterization of Materials. 4 Hours.
Theory and practice of materials characterization, with emphasis on optical metallography, quantitative metallography, scanning electron microscopy, crystallography, and x-ray diffraction. Specific applications in metals and ceramics considered. MSE 465L must be taken concurrently.
Prerequisites: MSE 281 [Min Grade: D]

MSE 465L. Characterization of Materials Laboratory. 0 Hours.
Laboratory component of MSE 465 and must be taken concurrently.

MSE 470. Ceramic Materials. 4 Hours.
Structure, processing, properties, and uses of ceramic compounds and glasses. Mechanical, thermal, and electrical behavior of ceramic materials in terms of microstructure and processing variables.
Prerequisites: MSE 281 [Min Grade: D] and CH 117 [Min Grade: D] and CH 118 [Min Grade: D]

MSE 470L. Ceramic Materials Laboratory. 0 Hours.
Laboratory component of MSE 470 and must be taken concurrently.

MSE 484. Electronic Magnetic and Thermal Prop of Materials. 3 Hours.
Fundamentals of electron band structure, mechanisms behind rectifying junctions, transistors, and other electronic devices. Magnetic and thermal properties of materials.
Prerequisites: MSE 280 [Min Grade: D] and PH 221 [Min Grade: C]

MSE 489. Undergraduate Research in MSE. 0 Hours.
Undergraduate research experiences in materials science and/or engineering.

MSE 490. Special Topics in (Area). 1-6 Hour.
Special Topics in (Area).

MSE 491. Individual Study in (Area). 1-6 Hour.
Individual Study in (Area).
MT 418. Immunology. 3 Hours.
Physiology of immune responses to infectious agents, tumors, transplant; abnormal responses: hypersensitivity, autoimmunity, immunoproliferative disorders, and immunodeficiencies; antigen-antibody reactions; complement; principles and applications of clinical immunology.

MT 423. Clinical Microbiology. 3 Hours.
Reservoirs, modes of transmission, disease associations, and morphological and biochemical characteristics of microorganisms commonly isolated in the clinical laboratory; methods used to isolate and identify bacteria, parasites, and fungi.
Prerequisites: BY 271 [Min Grade: C] or BY 261 [Min Grade: C]

MT 424. Clinical Microbiology Laboratory. 1 Hour.
Performance of techniques and tests used in the isolation and identification of bacteria, fungi and parasites commonly seen in a clinical microbiology laboratory. Concurrent enrollment MT 423.
Prerequisites: (BY 261 [Min Grade: C] or BY 271 [Min Grade: C]) and MT 423 [Min Grade: C](Can be taken Concurrently)

MT 426. Instrumentation and Automation. 2 Hours.
This course includes the study of the theory and principles of automation and instrumentation used in laboratories. An emphasis will be placed on quality control, quality assurance, instrumentation principles, basic statistics, and the regulatory, and economic issues encountered in laboratories including, clinical labs, health labs, government labs, private labs and other laboratories.
Prerequisites: CH 117 [Min Grade: C] and CH 118 [Min Grade: C]

MT 427. Instrumentation and Automation Laboratory. 1 Hour.
This course includes the practical application of automation and instrumentation used in laboratories. An emphasis will be placed on quality control, quality assurance, instrumentation principles, basic statistics, and the regulatory, and economic issues encountered in laboratories including, clinical labs, health labs, government labs, private labs and other laboratories.
Prerequisites: CH 117 [Min Grade: C] and CH 118 [Min Grade: C] and MT 426 [Min Grade: C](Can be taken Concurrently)

MT 428. Hematology I. 4 Hours.
Systematic examination of the normal hematologic and hemostatic systems: blood cell production, structure and function; blood cell morphology; performance, evaluation and interpretation of routine and special tests; primary hemostasis, coagulation and fibrinolysis. The course includes a mandatory laboratory component.

MT 430. Immunohematology. 4 Hours.
Analyze blood group antigen-antibody reactions; donor blood collection and testing serological characteristics and immunogenetics of the major blood group systems; pretransfusion testing, basic and advanced techniques of antibody identification and problem-solving; transfusion therapy; laboratory evaluation of hemolytic disease of the newborn; and the investigation of immune coating of red cells in vivo, including autoimmune hemolytic anemia. Application of theory and problem-solving skills is emphasized.
Prerequisites: MT 418 [Min Grade: C]

MT 431. Immunohematology Laboratory. 1 Hour.
Performance and evaluation of: red cell phenotyping, antibody detection and identification, pretransfusion testing, and laboratory investigation to diagnosis and treat hemolytic anemias and adverse effects of transfusion.
Prerequisites: MT 418 [Min Grade: C] and MT 430 [Min Grade: C](Can be taken Concurrently)

MT 432. Hematology II. 4 Hours.
Pathology of the hematologic and hemostatic systems: anemias, leukopenias, myelodysplastic syndromes, myeloproliferative syndromes, chronic leukemias, acute leukemias, primary hemostatic disorders, coagulopathies, thrombophilia, and interpretation and correlation of laboratory data supporting diagnosis and management or treatment. The course includes a mandatory laboratory component.
Prerequisites: MT 428 [Min Grade: C]

MT 438. Infectious Diseases. 3 Hours.
Pathogenic mechanisms of infectious diseases; normal flora and pathogens of various body sites; methods for collection, transport, and culturing different types of clinical specimens; interpretation of cultures.
Prerequisites: MT 423 [Min Grade: C] and MT 424 [Min Grade: C]

MT 439. Infectious Diseases Laboratory. 1 Hour.
Performance and interpretation of direct Gram stains; culturing various types of clinical specimens for isolation of bacteria; performing and interpreting tests used in the identification of potential pathogens; reporting culture results; antimicrobial susceptibility and resistance testing.
Prerequisites: MT 423 [Min Grade: C] and MT 424 [Min Grade: C] and MT 438 [Min Grade: C](Can be taken Concurrently)

MT 442. Molecular Diagnostics. 3 Hours.
The course will focus on the development of knowledge in and the fundamental principles of: molecular biochemistry, medical genetics, molecular pathology, performance, evaluation and interpretation of molecular tests.
Prerequisites: BY 210 [Min Grade: C]

MT 443. Molecular Diagnostics Laboratory. 1 Hour.
The course will focus on applications and analysis, and the development of competencies in: nucleic acid isolation, analysis of nucleic acids and protein, cytogenetics, PCR and others.
Prerequisites: MT 442 [Min Grade: C](Can be taken Concurrently)

MT 451. Clinical Chemistry. 4 Hours.
Theory of clinical laboratory techniques to identify and quantitate chemical analytes in body fluids and the correlation of these analytes to human disease.
Prerequisites: MT 426 [Min Grade: C] and MT 427 [Min Grade: C]

MT 452. Clinical Chemistry Laboratory. 1 Hour.
Performance of laboratory techniques used to identify and quantitate chemical analytes in body fluids and the correlation of these analytes to human disease.
Prerequisites: MT 451 [Min Grade: C]

MT 455. Research Principles. 2 Hours.
Clinical research principles and methods relevant to laboratory medicine assays; applications of descriptive and inferential statistics with diagnostic assay accuracy studies; development of competencies for critical analyses of empirical research papers to determine quality of empirical evidence and the operating characteristics of the diagnostic assays studied and the planning process for verification studies of diagnostic assays. Quantitative Literacy is a significant component of this course (QEP).
MT 460. Clinical Correlations. 3 Hours.
Analyze and interpret laboratory case studies; correlate clinical and technical information obtained from various topics covered throughout the curriculum; work with groups to present case studies with an emphasis on application and interpretation of laboratory protocols, competence in grammar usage and mechanics, and writing conventions required for laboratory professionals. Writing is a significant component of this course (QEP).
Prerequisites: MT 430 [Min Grade: C] and MT 432 [Min Grade: C] (Can be taken Concurrently) and MT 451 [Min Grade: C] (Can be taken Concurrently) and MT 438 [Min Grade: C]

MT 470. Certification Review. 1 Hour.
Review of medical technology clinical laboratory science body of knowledge with required comprehensive trial certification final examination using self-directed online materials. Experience with the development of a personal certification maintenance plan to meet requirements defined by national certification agencies in Clinical Laboratory Sciences. Medical Technology students only.
Prerequisites: MT 495 [Min Grade: C] (Can be taken Concurrently)

MT 495. Clinical Practices. 1-12 Hour.
This CLS program capstone course involves directed clinical practice in hematology, chemistry, microbiology, immunology and immunohematology with focused activities to reinforce, integrate and apply knowledge obtained throughout the curriculum. Students will organize, build on, and reflect on previous assignments/experiences to demonstrate attainment of discipline-specific writing, quantitative literacy, ethical issues, and civic engagement.

MU-Music Courses

MU 100. Fundamentals of Music. 3 Hours.
Basic elements of music and music notation: rhythm, scales, keys, and chords.

MU 115. Computer Music I. 3 Hours.
Introduction to hardware and software for creating and performing music with computers. Concepts include digital sampling, binary computation, properties of waveforms, graphical notation, and audio sequencing. Quantitative Literacy is a significant component of this course (QEP).

MU 120. Music Appreciation. 3 Hours.
Guided listening and class discussion covering variety of styles. Emphasis on European concert music of the eighteenth and nineteenth centuries. (CORE AREA II).

MU 141. Musical Acoustics. 3 Hours.
Physical nature of musical tones (pitch, loudness, and timbre) and numerical bases of scales, tuning, and musical instrument design. Laboratory/discussion including use of oscilloscope to study actual acoustic systems.

MU 145. The Music Business. 3 Hours.
Business aspects of music industry.

MU 159. Introduction to Composition. 3 Hours.
Introduction to the craft of musical composition.
Prerequisites: MU 221 [Min Grade: C] and MU 224 [Min Grade: C]

MU 160. First Year Experience in Music. 1 Hour.
The objective of this course is to introduce incoming freshmen to an education in music and music education in context of the university. It is meant to help prepare students for a successful collegiate career in the study of music. 1 hour.

MU 165. Jazz Styles: History and Appreciation. 3 Hours.
American jazz with emphasis on instrumental and vocal performers, jazz bands, and combos. Development of big band, swing, and popular music.

MU 199. Independent Studies. 1-3 Hour.
Directed projects in music. Permission of Department Chair based on written proposal submitted prior to registration.

MU 203. Introduction to Music Education. 2 Hours.
An introduction to the expectations of the modern-day public school music teacher, including the role of the teacher, curricular and legal expectations of teaching, and historical and philosophical underpinnings of public school music teaching.

MU 210. Special Workshop. 1 Hour.
Specialized subjects taught as opportunity allows. May be repeated for credit.

MU 211. Recording Studio Workshop. 1-3 Hour.
Specialized subjects taught as opportunity allows. May be repeated for credit.

MU 221. Music Theory I. 3 Hours.
Melody, harmony, and rhythm; their interaction in music. Diatonic musical materials with emphasis on choral and simple keyboard idioms.

MU 222. Music Theory II. 3 Hours.
Continuation of MU 221.
Prerequisites: MU 221 [Min Grade: C] and MU 224 [Min Grade: C]

MU 224. Aural Skills I. 1 Hour.
Required laboratory for MU 221.

MU 225. Aural Skills II. 1 Hour.
Required laboratory for MU 222.
Prerequisites: MU 224 [Min Grade: C]

MU 232. Instrumental Literature I. 3 Hours.
Introduction to the layout of instrumental scores, a history and development of the orchestra, extensive work with transpositions, ranges, and tone colors of instruments, and a survey of instrumental literature.

MU 233. Piano Literature I. 3 Hours.
Survey of the important piano solo repertoire from Bach through Schubert. Examination of the development of keyboard repertoire from the time of the harpsichord through the time of the early piano through playing, analysis and listening. Two terms of Applied Piano required.
Prerequisites: MUP 150 [Min Grade: C]

MU 234. Vocal Literature I. 3 Hours.
Introductory survey of representative non-operatic solo vocal repertoire of North America, the British Isles, and Italy. Techniques of song study, interpretation, and performance practice. Two terms of Applied Voice required.
Prerequisites: MUP 140 [Min Grade: C]

MU 235. English and Italian Diction. 2 Hours.
Instruction in standard English and Italian stage pronunciation.

MU 236. French and German Diction. 2 Hours.
Instruction in the standard French and German stage pronunciation.
Prerequisites: MU 235 [Min Grade: C]

MU 245. Recording Technology I. 3 Hours.
Concepts and techniques of music production in recording studios. Limited enrollment. First class meets on campus.

MU 261. Introduction to Music Literature. 3 Hours.
Score reading and elementary analysis. Chronological survey of styles and forms of each historical period. Basic music reading ability.
MU 282. Accompanying. 3 Hours.
Principles of accompanying singers and instrumentalists; practical experience in accompanying; and facility in sight-reading for keyboard performers. Experience is gained through assigned projects and/or assigned studio accompanying.

MU 298. Introduction to Technology in the Arts. 3 Hours.
Applications of computer-based technology to the arts: music, theatre, video, and visual arts. Demonstrations of multimedia capabilities.

MU 299. Independent Studies. 1-3 Hour.
May be repeated for credit. Permission of Department Chair based on written proposal submitted prior to registration.

MU 303. Foundations of Music Education. 3 Hours.
Analysis into the historical, social, and philosophical foundations of music education by studying the application of education principles to music and emphasizing the development of a personal philosophy towards music education.
Prerequisites: MU 203 [Min Grade: C]  
MU 321. Music Theory III. 3 Hours.
Introduction to chromatic materials.
Prerequisites: MU 222 [Min Grade: C] and MU 225 [Min Grade: C]  
MU 322. Music Theory IV. 3 Hours.
Chromatic materials, modulation, extensions of tertian harmony, and overview of contemporary techniques.
Prerequisites: MU 321 [Min Grade: C] and MU 324 [Min Grade: C]  
MU 324. Aural Skills III. 1 Hour.
Required laboratory for MU 321. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: MU 225 [Min Grade: C] and MU 222 [Min Grade: C]  
MU 325. Aural Skills IV. 1 Hour.
Required laboratory for MU 322.
Prerequisites: MU 324 [Min Grade: C] and MU 321 [Min Grade: C]  
MU 329. Conducting I. 2 Hours.
Basic conducting techniques and rehearsal procedures.

MU 330. Marching Band Techniques. 3 Hours.
Organizing and administering a marching band, including show design and computer-assisted drill-writing experience.

MU 331. Band Literature. 3 Hours.
Frequently performed modern concert band literature.

MU 332. Instrumental Literature II. 3 Hours.
Introduction to the layout of instrumental scores, a history and development of the orchestra, extensive work with transpositions, ranges, and tone colors of instruments, and a thorough study of instrumental literature including orchestral, wind, and chamber music.
Prerequisites: MU 232 [Min Grade: C]  
MU 333. Piano Literature II. 3 Hours.
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 by playing, analyzing and listening.
Prerequisites: MU 233 [Min Grade: C]  
MU 334. Vocal Literature II. 3 Hours.
Introductory survey of representative non-operatic solo vocal repertoire of France, Germany, and Austria. Techniques of song study, interpretation, and performance practice.
Prerequisites: MU 234 [Min Grade: C] and MU 236 [Min Grade: C]  

MU 341. Computer Music II. 3 Hours.
Using computer applications, including MIDI and sampling technology, in the creation of musical compositions.
Prerequisites: MU 115 [Min Grade: C]  
MU 342. Computer Music III. 3 Hours.
Continuation of MU 341. Advanced computer music projects utilizing sound synthesis, sound file manipulation, and hard disk recording techniques.
Prerequisites: MU 222 [Min Grade: C] and MU 225 [Min Grade: C] and MU 341 [Min Grade: C]  
MU 345. Recording Technology II. 3 Hours.
Advanced concepts and techniques of multitrack recording in project and professional recording studio, including signal processing mixing and mastering.
Prerequisites: MU 115 [Min Grade: C] and MU 221 [Min Grade: C] and MU 224 [Min Grade: C] and MU 245 [Min Grade: C]  
MU 359. Composition I. 1-2 Hour.
Discussions and creative projects designed to help beginning composers or arrangers gain experience in handling variety of musical styles, and in shaping musical ideas. May be repeated for maximum of 3 hours credit.
Prerequisites: MU 322 [Min Grade: C]  
MU 364. American Music. 3 Hours.
Music in United States from colonial times to the present.
Prerequisites: MU 120 [Min Grade: C] or MU 261 [Min Grade: C]  
MU 365. The Evolution of Jazz. 3 Hours.
Origins and survey of jazz types and styles. Lectures, recordings, and readings.
Prerequisites: MU 120 [Min Grade: C] or MU 261 [Min Grade: C]  
MU 366. Music in World Cultures. 2-3 Hours.
Characteristics of musical styles found in various cultures throughout the world. 3-hour option requires semester project directed by the instructor.
Prerequisites: MU 120 [Min Grade: C] or MU 261 [Min Grade: C]  
MU 367. Introduction to Ethnomusicology. 3 Hours.
Holistic approach to study of music. Musicians’ training, instruments, and role in society. Methods for documenting and transcribing, social functions and economic context, and theories of performance and creativity. Ghanaian and Indian traditions, with other music, including Western, as appropriate. Six semester hours of ANTH, MU or MUP courses required.
Prerequisites: MU 120 [Min Grade: C] or MU 120 [Min Grade: C]  
MU 381. Instrumental Pedagogy. 3 Hours.
Overview of important components of teaching instrumental music in the secondary school program, including developing a personal philosophy of music education and teaching strategies. Prerequisites: Four terms of Applied Lessons (MUP 161 - 195).  
MU 382. Piano Pedagogy. 3 Hours.
Study of teaching objectives, techniques, literature, methods and materials (including observation) for the pre-college student as well as the study of the history of the piano and piano mechanism. Two terms of Applied Piano required.
Prerequisites: MUP 150 [Min Grade: C]  
MU 383. Vocal Pedagogy. 3 Hours.
Principles of healthy voice production as the foundation for an approach to teaching voice. Two terms of Applied Voice required.
Prerequisites: MUP 140 [Min Grade: C]
MU 399. Independent Studies. 1-3 Hour.
Permission of Department Chair based on written proposal submitted prior to registration.

MU 410. Music Technology Workshop. 1-3 Hour.
Workshop in Music Technology.

MU 429. Advanced Conducting/Techniques. 2 Hours.
Rehearsal techniques, expression, and interpretation. May occasionally work with University ensembles.
Prerequisites: MU 329 [Min Grade: C]

MU 441. Multimedia Productions. 3 Hours.
Techniques for producing music for television, film, video, computer presentations, and slide shows using computer-based technologies.
Prerequisites: MU 342 [Min Grade: C] and MU 345 [Min Grade: C]

MU 445. Modal Counterpoint. 3 Hours.
Important characteristics of polyphonic writing based on modal scales with emphasis on style of Palestrina and other Renaissance composers.
Prerequisites: MU 222 [Min Grade: C]

MU 446. Tonal Counterpoint. 3 Hours.
Important characteristics of polyphonic writing based on major and minor scales with emphasis on style of J.S. Bach and other eighteenth century composers.
Prerequisites: MU 322 [Min Grade: C]

MU 448. Orchestration. 3 Hours.
Scoring techniques for orchestra, band, and other instrumental groups.
Prerequisites: MU 322 [Min Grade: C]

MU 451. Topics in Music Theory. 3 Hours.
Aspects of music theory and analysis. May be repeated for credit.
Prerequisites: MU 322 [Min Grade: C]

MU 455. Analysis of Musical Structure. 3 Hours.
Principles and techniques of organization in tonal music; analytical methods.
Prerequisites: MU 322 [Min Grade: C]

MU 458. Contemporary Techniques. 3 Hours.
Techniques and materials employed in contemporary music, including nonfunctional and nontertian harmony, polyharmony, atonal and serial music, contemporary notation.
Prerequisites: MU 322 [Min Grade: C]

MU 459. Composition II. 1-2 Hour.
Directed individual projects in composition and discussions on related topics. May be repeated for credit.
Prerequisites: MU 359 [Min Grade: C]

MU 461. Seminar in Music Literature. 3 Hours.
Selected topics concerning specific periods, genres, and forms. May be repeated for credit.

MU 471. Music History and Literature to 1750. 3 Hours.
Major developments of music styles and forms from pre-Christian era through Baroque. Includes critical listening to selected musical examples.
Prerequisites: MU 222 [Min Grade: C]

MU 472. Music Hist/Lit 1750-Present. 3 Hours.
A course taken in the student’s junior or senior year that studies the major developments of musical styles and forms from the classical period through the present. This includes critical listening to selected musical examples as well as critical analysis, research and writing. Writing is a significant component of this course (QEP).
Prerequisites: MU 222 [Min Grade: C]

MU 498. Music Technology Internship. 1-2 Hour.
This capstone experience provides students in Music Technology with practical experience in.
Prerequisites: MU 342 [Min Grade: C] and MU 345 [Min Grade: C] and MU 441 [Min Grade: C]

MU 499. Independent Studies. 1-3 Hour.
Directed studies in music. Permission of Department Chair. Written proposal must be submitted prior to registration.

MUP-Music Courses

MUP 001. Performance Attendance. 0 Hours.
Attendance at Department-approved musical events such as concerts, recitals, and festivals. Required of music, music technology, and music education majors.

MUP 110. Gospel Choir. 1 Hour.
Performs traditional and contemporary gospel choral music. Open to students of all majors. May be repeated for credit.

MUP 120. University Chorus. 1 Hour.
Non-auditioned ensemble open to students of all majors, performing larger masterworks for choir and orchestra. May be repeated for credit.

MUP 122. Class Voice. 1 Hour.
Fundamentals of singing for teaching or performance. Group and individual instruction.

MUP 124. Class Piano. 1 Hour.
Basic keyboard skills for adult beginner. May be repeated for maximum of 3 hours of credit.

MUP 125. Piano Proficiency. 0 Hours.
Basic keyboard skills for adult beginner. May be repeated for maximum of 3 hours of credit.

MUP 130. Class Guitar. 1 Hour.
Beginning course in basic guitar techniques and music reading. Student must have a classic or acoustic guitar.

MUP 132. Class Woodwinds. 1 Hour.
Basic materials and performance techniques, primarily for music education students.

MUP 134. Class Brass. 1 Hour.
Basic materials and performance techniques, primarily for music education students.

MUP 136. Class Percussion. 1 Hour.
Basic materials and performance techniques, primarily for music education students.

MUP 138. Class Strings. 1 Hour.
Basic materials and performance techniques, primarily for Music Education students.

MUP 140. Private Lessons: Voice. 1 Hour.
Private instruction in voice. Limited to Music Majors and Minors.

MUP 150. Private Lessons: Piano. 1 Hour.

MUP 161. Private Lessons: Flute. 1 Hour.
Private instruction in flute. Limited to Music majors and minors.

MUP 162. Private Lessons: Oboe. 1 Hour.
Private instruction in oboe. Limited to Music majors and minors.

MUP 163. Private Lessons: Clarinet. 1 Hour.
Private instruction in clarinet. Limited to Music majors and minors.
MUP 164. Private Lessons: Saxophone. 1 Hour.
Private instruction in saxophone. Limited to Music majors and minors.

MUP 166. Private Lessons: Bassoon. 1 Hour.
Private instruction in bassoon. Limited to Music majors and minors.

MUP 171. Private Lessons: Trumpet. 1 Hour.
Private instruction in trumpet. Limited to Music majors and minors.

MUP 172. Private Lessons: French Horn. 1 Hour.
Private instruction in french horn. Limited to Music majors and minors.

MUP 173. Private Lessons: Trombone. 1 Hour.
Private instruction in trombone. Limited to Music majors and minors.

MUP 174. Private Lessons: Euphonium. 1 Hour.
Private instruction in euphonium. Limited to Music majors and minors.

MUP 175. Private Lessons: Tuba. 1 Hour.
Private instruction in tuba. Limited to Music majors and minors.

MUP 180. Private Lessons: Percussion. 1 Hour.
Private instruction in percussion. Limited to Music majors and minors.

MUP 191. Private Lessons: Violin. 1 Hour.
Private instruction in violin. Limited to Music majors and minors.

MUP 192. Private Lessons: Viola. 1 Hour.
Private instruction in viola. Limited to Music majors and minors.

MUP 193. Private Lessons: Cello. 1 Hour.
Private instruction in cello. Limited to Music majors and minors.

MUP 194. Private Lessons: Bass. 1 Hour.
Private instruction in bass. Limited to Music majors and minors.

MUP 195. Private Lessons: Guitar. 1 Hour.
Private instruction in guitar. Limited to Music majors and minors.

MUP 200. Concert Choir. 1 Hour.
Performs choral music representing a variety of periods and styles. Some sight-reading ability necessary. May be repeated for credit.

MUP 200L. Concert Choir Learning Lab. 0 Hours.
Required Learning Lab for MUP 200 Concert Choir. Performs choral music representing a variety of periods and styles. Some sight-reading ability necessary.

MUP 221. Jazz Combo. 1 Hour.
Performs repertoire of traditional and contemporary jazz for small ensembles. Rehearsals will focus on reading from "Real Books" and will include harmonic analysis as well as a study of basic improvisation, form and style.

MUP 222. Advanced Woodwind Methods. 1 Hour.
Methods and materials for music educators in the specialized techniques of woodwind (flute, oboe, clarinet, saxophone, bassoon) pedagogy; emphasis on learning through performance and preparing and teaching in-class lessons. 
Prerequisites: MUP 132 [Min Grade: C]

MUP 224. Advanced Brass Methods. 1 Hour.
Methods and materials for music educators in the specialized techniques of brass (trumpet, trombone, horn, euphonium, tuba) pedagogy; emphasis on learning through performing and teaching in-class lessons.
Prerequisites: MUP 134 [Min Grade: C]

MUP 225. Symphony Band. 1 Hour.
Performs concert band literature. Open to students of all majors. May be repeated for credit.

MUP 226. Advanced Percussion Methods. 1 Hour.
Methods and Materials for music educators in the specialized techniques of percussion pedagogy; emphasis on learning through performance and preparing and teaching in-class lessons. 
Prerequisites: MUP 136 [Min Grade: C]

MUP 230. Guitar Ensemble. 1 Hour.
Performs original and pre-arranged selections of guitar ensemble literature. May be repeated for credit.

MUP 231. Orchestra. 1 Hour.
Participation in community orchestra. Open to string students; wind or percussion players must enroll concurrently in MUP 225, MUP 235 or MUP 236.

MUP 232. Marching Band. 1 Hour.
Supports UAB football program by performing pre-game and half time shows. May also perform for other special University or community events. Open to students of all majors with marching band experience. May be repeated for credit.

MUP 233. Clarinet Choir. 1 Hour.
Performs works for clarinet choir in a chamber setting. Open to students of all majors. May be repeated for credit.

MUP 234. Percussion Ensemble. 1 Hour.
Performs original and pre-arranged selections of concert percussion literature. Advanced percussion skill necessary. Open to students of all majors. May be repeated for credit.

MUP 235. Wind Symphony. 1 Hour.
Performs finest concert band literature. Open to students of all majors. May be repeated for credit.

MUP 236. Jazz Ensemble. 1 Hour.
Performs classic and contemporary jazz, swing, and rhythm and blues. May be repeated for credit.

MUP 237. Blazer Band. 1 Hour.
Supports UAB basketball program by performing at games. May also perform for other special University or community events. Open to students of all majors. May be repeated for credit.

MUP 238. Brass Ensemble. 1 Hour.
Performs works for brass ensemble in a chamber setting. Open to students of all majors. May be repeated for credit.

MUP 239. Tuba/Euphonium Ensemble. 1 Hour.
Performs works for low brass ensemble in a chamber setting. Open to students of all majors. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 253. Private Lessons: Jazz Piano. 1,2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.
MUP 262. Private Lessons: Oboe. 1-2 Hour.
Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 263. Private Lessons: Clarinet. 1-2 Hour.
Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 265. Jazz Improvisation. 3 Hours.
Jazz theory and improvisational techniques. Emphasis on basic repertory of standards and typical jazz forms. Stresses both performance and theory.

MUP 266. Private Lessons: Bassoon. 1-2 Hour.
Private instruction in bassoon. Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. may be repeated for credit.

MUP 267. Private Lessons: Jazz Saxophone. 1,2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 274. Private Lessons Euphonium. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 276. Private Lessons: Jazz Trumpet. 1,2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

MUP 277. Private Lessons: Jazz Trombone. 1,2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 281. Private Lessons: Jazz Percussion. 1-2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 293. Private Lessons: Cello. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 296. Private Lessons: Jazz Guitar. 1-2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

MUP 302. Chamber Singers. 1 Hour.
Advanced choral group. Performs variety of choral music representing different periods and styles. By audition only. Advanced music-reading skills required. May be repeated for credit.

MUP 321. Women's Chorale. 1 Hour.
Performs choral music for women's voices and covers a variety of periods and styles. Some sight-reading ability necessary. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 341. Computer Music Ensemble. 1 Hour.
Performs computer and other electronically generated music of various styles.
Prerequisites: MU 222 [Min Grade: C] and MU 225 [Min Grade: C] and MU 341 [Min Grade: C]

Private instruction in piano. Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. May be repeated for credit.

MUP 353. Piano Ensemble. 1 Hour.
Explores piano literature for multiple performers. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 340 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 330 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 320 [Min Grade: C]

MUP 320. Private Lessons: Oboe. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 310 [Min Grade: C]

MUP 310. Private Lessons: Clarinet. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 300 [Min Grade: C]

MUP 300. Private Lessons: Flute. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 290 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 280 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 270 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 260 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 250 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 240 [Min Grade: C]

MUP 240. Private Lessons: Bassoon. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 230 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 220 [Min Grade: C]

MUP 220. Private Lessons: Cello. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 210 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 200 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 190 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 180 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and
private lesson, to be scheduled with the instructor, are required. May be
repeated for credit.
Prerequisites: MUP 170 [Min Grade: C]
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 373 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 374 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 375 [Min Grade: C]

Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 380 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 391 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 392 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 393 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 394 [Min Grade: C]

MUP 495. Private Lessons: Guitar. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 395 [Min Grade: C]

MUP 497. Senior Recital/Project. 0 Hours.
A co-curricular course taken in the student’s last 30 hours that, together with their last semester of applied lessons, will culminate in a Senior Recital or Lecture-Recital. This is a capstone course for all students seeking a Bachelor of Arts (general) degree.

NBL 121. Basic Neuroscience. 3 Hours.

NBL 220. Special Topics Neuroscience 1. 1 Hour.
This course covers different topics that have to do with Neurobiology.

NBL 222. Special Topics Neuroscience 2. 2 Hours.
This course covers different topics that have to do with Neurobiology.

NBL 240. Special Topics Neuroscience 3. 3 Hours.
This course covers different topics that have to do with Neurobiology.

NBL 298. Special Topics Neuroscience 4. 1 Hour.
This course covers different topics that have to do with Neurobiology.

NBL 310. Evolution of the Vertebrate Brain. 3 Hours.

NBL 311. From Wet Brains to Artificial Stupidity. 1-3 Hour.

NBL 323. Special Topics Neurobiology 1. 1 Hour.
This course covers different topics that have to do with Neurobiology.

NBL 325. Special Topics Neurobiology 3. 2 Hours.
This course covers different topics that have to do with Neurobiology.

NBL 327. Special Topics Neurobiology 4. 3 Hours.
This course covers different topics that have to do with Neurobiology.

NBL 330. Neuroscience: Brain Function and Dysfunction. 3 Hours.
This course is an introduction to brain function. The topics range from the molecular to the behavioral. The structure of brains (insects to humans) and their key elements, neurons and glia, are discussed. We will focus on how it converts this input into electrical impulses, which then cause the release of a chemical messenger that influences the activity of other neurons (and glia) and ultimately generates behavior.

NBL 355. Introduction to Neuroscience. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize the development, anatomy, cellular and molecular biology and biochemistry of neurons and glial cells, and introduce electrical, biophysical and chemical signaling within and across neurons.

NBL 356. Introduction to Neuroscience II. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize mechanisms of synaptic transmission, sensory systems, neuropharmacology, and synaptic plasticity; and introduce the molecular basis of diseases and disorders of the central and peripheral nervous systems.
Prerequisites: PY 355 [Min Grade: C] or NBL 355 [Min Grade: C]

NBL 390. Neurobiology Research Laboratory. 1 Hour.
Hands-on instruction will be provided in contemporary methods used in neurobiology research. These will include molecular cloning, DNA sequencing, cell transformation and culture, western blotting, immunohistochemistry and electrophysiology.

NBL 398. Rescg Prac in Neurobiology-RES. 1-6 Hour.
Project or research activity supervised by faculty. Cannot be taken Pass/ Fail.

NA-Nursing Anesthesia Courses

NAH-Nursing - Adult Health Courses

NBB-Nursing - Biobehavioral Courses

NBL-Neurobiology Courses

NBL 120. Basic Neuroscience. 3 Hours.
NBL 401. Colloquium in Basic, Cognitive and Clinical Neuroscience. 1 Hour.

The Colloquium in Basic, Cognitive and Clinical Neuroscience is a faculty seminar. The Colloquium will expose students to cutting edge research programs and technologies from approximately 25 faculty each year who serve as mentors for the Undergraduate Neuroscience Major and Graduate Neuroscience Program. Faculty will also discuss strategies for development of careers in medicine and research. Students will prepare by reading an assigned research article authored by the speaker and be prepared for a group discussion. Class meets for one and a half hours a week.

NBL 433. Diseases of the Nervous System. 3 Hours.

Molecular mechanisms and treatments for neurological, psychiatric, and injury based disorders and diseases of the nervous system. Topics include neurodevelopmental disorders (including intellectual disability and autism spectrum disorders), neurological disorders (including neurodegenerative and demyelinating disease), neuropsychiatric disorders (including depression disorders and schizophrenia), and injury to the nervous system (including stroke and traumatic brain and spinal cord injury).

Prerequisites: PY 356 [Min Grade: C] or NBL 356 [Min Grade: C]

NBL 434. Mechanisms of Memory. 3 Hours.

Molecular, cellular, systems and medical components of neuroscience, with an emphasis on cognition and cognitive disorders. Covers topics ranging from genes and molecules to human behavior, using cognitive function and clinical cognitive disorders as the unifying theme, with a focus on learning and memory and disorders of these processes.

Prerequisites: PY 356 [Min Grade: C] or PY 356 [Min Grade: C]

NBL 440. Special Topics Neuroscience 1. 1 Hour.

This course covers different topics that have to do with Neurobiology.

NBL 442. Sp Tp Neuroscience 2. 2 Hours.

This course covers different topics that have to do with Neurobiology.

NBL 444. Special Topics Neuroscience 3. 3 Hours.

This course covers different topics that have to do with Neurobiology.

NBL 446. Special Topics Neuroscience 4. 4 Hours.

This course covers different topics that have to do with Neuroscience.

NBL 454. Mind/Brain Course. 3 Hours.

NCA-Nursing - Critical Care Courses
NCC-Nursing - Child/Adolescent Courses
NCH-Nursing - Child Health Courses
NCL-Nursing - Clinical Nur Lead Courses
NCS-Nursing - Clinical Spec Courses
NCV-Nursing - Cardiovascular Courses
NDP-Nursing - Dual Pediatric Courses
NFA - RN First Assist Courses
NHF-Nursing - Family Courses
NGN-Nursing - Gerontological Courses

NHS-Nursing and Health Admin Courses
NHV - Nursing - HIV/AIDS Care Courses
NMD - Nursing - Diabetes Mnmgt Courses

NMT-Nuclear Medicine Tech Courses

NMT 304. Physics for Technologists. 8 Hours.

Mechanics, static and dynamic fluids, wave motion, heat, sound, electricity, magnetism, and light; fundamental concepts of physics with mathematical formulation to enhance problem-solving skills.

Prerequisites: MA 105 [Min Grade: C] or MA 106 [Min Grade: C]

NMT 320. Human Pathophysiology. 3 Hours.

Introduction to basic disease concepts, theories of disease causation and pathophysiologic disorders most frequently encountered in clinical practice.

Prerequisites: BY 115 [Min Grade: C] and BY 116 [Min Grade: C]

NMT 400. Intro to Clinical Nuclear Medicine Technology. 2 Hours.

Overview of professional organizations and nuclear medicine; hospital organization; medical terminology; medical records; introduction to other aspects of nuclear medicine technology including ethics concerning the hospital setting; writing assignments on professionalism and hospital ethics. Writing and Ethics and Civic Responsibility are significant components of this course (QEP).

NMT 401. Introduction to MRI Clinic. 2 Hours.

This course is designed to provide students with the practical aspect of Magnetic Resonance Imaging. The role of MRI technologists, patient management, MRI screening and safety procedures, quality assurance procedures and FDA guidelines will be discussed.

Prerequisites: NMT 424 [Min Grade: C] or NMT 417 [Min Grade: C]

NMT 404. Patient Care. 2 Hours.

Basic patient care theory and techniques including standard precautions, infection control, vital signs venipuncture patient transfer techniques, immobilization techniques, aseptic and nonaseptic techniques, oxygen administration, and medical emergencies which are required for nuclear medicine students prior to entering clinical training.

NMT 405. Cross-Sectional Anatomy. 3 Hours.

Integration of the knowledge of gross anatomy with the identification and location of structures in cross-sectional images. Computer Tomography (CT), Magnetic Resonance (MR), and Diagnostic Ultrasound (US) images in various anatomical planes will be used to locate and identify anatomical structures.

NMT 410. Medical Radiation Physics. 4 Hours.

Qualitative and quantitative concepts of radiation physics pertaining to medical applications in nuclear medicine, radiology, and radiation therapy; atomic and nuclear structure, radioactive decay, properties of radiation; x-ray production; artificial production; photon interactions in matter and shielding attenuation processes.

Prerequisites: MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 125 [Min Grade: C]
NMT 421. Instrumentation I. 3 Hours.
Theoretical and practical concepts in radiation detection instrumentation; calibration; maintenance standards; practical uses of gaseous detectors, scintillation detectors, and multichannel analyzers; quality assurance testing for nuclear medicine instrumentation including GM detectors, ionization chambers and scintillation detectors; gamma spectrometry of all commonly used nuclear medicine radionuclides. Principles of in vivo and in vitro counting and imaging using probe counters, well counters, and scintillation gamma cameras; scintillation gamma camera quality control; types of collimators used in nuclear medicine, their use and function.

NMT 421L. Instrumentation I Laboratory. 1 Hour.
Introduction to basic radiation and nuclear counting instrumentation. Utilizing proper calibration of the Multi-Channel Analyzer (MCA) and Geiger Muller (G-M) Counter. Determine the proper operating voltage, detector efficiency, window width, and amplifier gain and energy resolution of the MCA. Proper counting statistics and dual isotope counting labs will emphasize the importance of proper use of nuclear counting instrumentation.

NMT 422. Instrumentation II. 3 Hours.
Applies computer fundamentals to the acquisition and processing of nuclear medicine patient data. Quantitative planar studies as well as SPECT/PET image reconstruction, filtering, and attenuation correction are presented. Quality control of SPECT and PET camera system.

Prerequisites: NMT 421 [Min Grade: C]

NMT 423. Computed Tomography. 3 Hours.
Provide theoretical principles of Computed Tomography (CT) using the historical development of CT and the physical principles underlying CT scanning, CT instrumentation, data acquisition, data processing and image quality.

NMT 424. Physics/Instrumentation of Nuclear Magnetic Resonance. 3 Hours.
Fundamental physical principle of nuclear magnetic resonance, including structure of atom, concept of resonance, Larmor frequency, gyromagnetic ratio, T1 and T2 and methods of generating magnetic fields; theory of operation of NMR spectrometers and imagers, including function of basic components, effects of linear gradients, signal processing, slice definition and image reconstruction.

NMT 431. Nuclear Medicine Procedures I. 4 Hours.
Study of the utilization of nuclear medicine procedures and the nuclear medicine technologist’s responsibilities in completing a procedure involving the skeletal, respiratory, endocrine, gastrointestinal and genitourinary systems. Anatomy and relevant concepts in physiology are reviewed and applied to each procedure. Common pathologies demonstrated with each procedure are also discussed.

Prerequisites: BY 115 [Min Grade: C] and BY 116 [Min Grade: C]

NMT 432. Nuclear Medicine Procedures II. 4 Hours.
Instruction of various nuclear medicine procedures and the nuclear medicine technologist’s responsibilities for completing a procedure involving nuclear cardiology, oncology, central nervous and hematopoietic systems and applications of position emission tomography. Anatomy and relevant concepts in physiology are reviewed and applied to each procedure. Common pathologies demonstrated with each procedure and the basics of three and twelve lead ECGs.

Prerequisites: NMT 431 [Min Grade: C]

NMT 433. Computed Tomography Procedures. 3 Hours.
Provide a solid foundation of Computed Tomography (CT) Procedures through basic CT scanning concepts and image quality, detailed discussions about CT positioning criteria, specific selections, and options in protocols. Understanding concepts in advanced CT including interventional imaging, virtual reality imaging, positron emission tomography and special procedures.

Prerequisites: NMT 405 [Min Grade: C] or RTT 402 [Min Grade: C] and NMT 423 [Min Grade: C] (Can be taken Concurrently) or RTT 403 [Min Grade: C]

NMT 434. MRI Scanning and Sequence. 3 Hours.
This course will provide the students with a solid foundation of the magnetic resonance imaging (MRI) modality. Basic MRI theory will be reviewed along with detailed discussion about imaging sequences, parameter optimizations, and imaging procedures will be extensively discussed. Advanced concepts such as flow imaging, and MR spectroscopy will also be discussed.

Prerequisites: NMT 405 [Min Grade: C] and NMT 424 [Min Grade: C]

NMT 441. Radiation Protection and Biology. 3 Hours.
Principles and methods of radiation protection, health physics units, measurement, and dose limiting regulations for occupationally and non occupationally exposed individuals; radiation surveys, techniques and decontamination methods, monitoring of radioactive waste, radiation dose measurements, and radionuclide accountability; special topics, including precautions with brachytherapy patients, with patients receiving therapeutic amounts of radionuclides, and in management of accidentally contaminated individuals. Physical, chemical and biological mechanisms involved in action of different types of radiations on living cell and their components are covered. Emphasis is given to being able to interpret how to respond to a malicious radiological exposure incident in an appropriate manner.

NMT 442. Application of Radiation Protection and Biology. 1 Hour.
Introduction to basic radiation physics and radiation protection experiments, emphasizing the ALARA concept; basic concepts of radiation safety (including time, distance and appropriate shielding), half-lives, half value layers for different absorbers and radioisotopes, the inverse square law, semi-log graphing and calibration and use of nuclear counting instrumentation; proper calibration and use of the Multi Channel Analyzer (MCA) and Geiger Muller (G-M) Counter; proper operating voltage, detector efficiency, and window width, proper counting statistics and dual isotope counting labs.

NMT 443. Regulatory Issues. 2 Hours.
Basic knowledge of appropriate rules, regulations and work practices governing the use of radioactive materials in the medical setting to plan for and participate in a successful radiation safety compliance management program.

NMT 451. Communication Skills. 1 Hour.
This course explores the nature of the patient-technologist relationships, technologist-hospital professional relationship and the role of the technologist as a patient educator. Therapeutic communication skills, interviewing skills, and the psychosocial aspects of being a patient are discussed.

NMT 452. Health Law for NMT. 1 Hour.
Introduction to medical law and ethics presenting an overview of major ethical theories and their relation to health law. Topics covered include ethical dilemmas and ethical decision making models and their application to clinical practice; legal principles and their application to healthcare; issues concerning professional liability, informed consent, and malpractice.
NMT 453. Seminar III. 1 Hour.
Review of current literature applied to case study presentation.

NMT 460. Radiochemistry and Radiopharmacy. 2 Hours.
Introduction to fundamentals of radiopharmacy including radionuclide generator design and operation, labeling and quality control of Tc-99m labeled compounds, unit dose preparation and a review of federal regulations pertinent to radionuclides and radiopharmaceuticals; radiopharmaceutical design, IND process and the basic concepts of internal radiation dosimetry.

NMT 461. Radiopharmacy and Pharmacology Laboratory. 1 Hour.
Utilizing the fundamentals of radiopharmacy including radionuclide generator design and operation, labeling and quality control of Tc-99m labeled compounds, unit dose preparation, and a review of federal regulations pertinent to radionuclides and radiopharmaceuticals along with the radiopharmaceutical design and the IND process and basic concepts of internal radiation dosimetry.

NMT 491. Clinical Practice I. 5 Hours.
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.

NMT 492. Clinical Practice II. 7 Hours.
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.
Prerequisites: NMT 491 [Min Grade: C]

NMT 493. Clinical Practice III. 4-10 Hours.
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.
Prerequisites: NMT 492 [Min Grade: C]

NMT 494. CT Clinical Practice. 12 Hours.
Clinical application of the nuclear medicine program concepts with opportunity to observe, work, and train to become certified in CT; performance evaluated through clinical experiences, final evaluation, and a self-assessment.

NMT 495. MRI Clinical Practice. 12 Hours.
Clinical application of the nuclear medicine program concepts with opportunity to observe, work, and train to become certified in MRI; performance evaluated through clinical experiences, final evaluation, and a self-assessment.

NMT 499. Correlative Imaging. 3 Hours.
Capstone course encompassing all aspects of the nuclear medicine technology program to investigate and analyze the multifaceted nature of disease diagnosis and treatment in the United States, current trends in healthcare costs and payment methods, and healthcare disparities associated with these imaging tests This course consists of the three aspects of the University Quality Enhancement Plan (QEP) including Ethics and Civic Responsibility, Writing and Quantitative Literacy.

NPE-Nursing - Pediatrics Courses
NPN-Psyc Mental Hlth Nur Prac Courses
NPP- NUR - Pediatric Pulmonary Courses
NPR-NUR Promo/Protect/Rest Hlt Courses
NRM-Nursing - Research Methods Courses
NS-Natural Sciences/Math Courses
NS 100. NSM Honors Seminar. 3 Hours.
NSM Honors Seminar.

NS 101. Succeeding in the Sciences. 1 Hour.
This one credit-hour course is designed to introduce freshmen NSM majors to the tools and techniques that will enhance their transition to college and improve their academic success. Goal setting, critical thinking, note-taking, time management, and other academic skills applicable to success in all NSM majors will be addressed along with exploring career options and gaining insight into the scientific approach used by faculty in their research.

NST- NUR - Statistical Methods Courses
NTR-Nutrition Sciences Courses
NTR 220. Contemporary Issues in Nutrition. 3 Hours.
Contemporary Issues in Nutrition is designed for non-health professional majors and will be particularly beneficial to those in education, communications, and business fields of study.

NTR 222. Nutrition and Health. 3 Hours.
Introduction to principles of nutrition; essential nutrients and their relation to growth, maintenance, and optimal functioning of the body; dietary recommendations to promote wellness and prevent chronic disease.

NTR 225. Promoting Nutrition and Wellness for Healthy Communities. 3 Hours.
This course will introduce students to one of the most critical health issues in the US today ¿ poor nutrition, unhealthy life styles and their consequences including the epidemic of obesity. Students will learn about the diverse range of individuals impacted by this issue and will discover the range of prevention, education and support services that are offered. This course will cover the following aspects of unhealthy lifestyles/poor nutrition: history and systemic causes, education and prevention, including policy and advocacy. The course is also designed to present a multicultural perspective on the issues and students will be encouraged to engage in service-learning in the field, read literature, listen to speakers and interact with individuals representing a range of ages, genders, ethnicities and socioeconomic status.

NTR 232. Lifecycle Nutrition. 3 Hours.
Role of nutrition and dietary factors on the growth, development, and maintenance of health throughout the human life cycle. Nutritional guidelines/recommendations, special nutritional needs, physiology, and nutritional health concerns for each stage of the human lifecycle, from preconception through adulthood and aging.
NTR 320. Nutrition and the Consumer. 3 Hours.
Contemporary nutrition topics that affect consumers, such as dietary supplements, food additives, food safety, food, genetically modified organisms in foods & integrative medicine. Techniques to communicate nutrition information to consumers.

NTR 330. Nutrition and Metabolism. 3 Hours.
Metabolism and functions of nutrients after mixed meal intakes, including USDA MyPlate, low-carbohydrate or low-fat diets; biosynthesis of vitamins and co-factors and whole food sources; human requirements for energy, amino acids, minerals, and vitamins; food fortification; current human nutritional challenges and diseases.

NTR 420. Nutritional Genetics. 3 Hours.
How behavioral practices, environmental influences, and genetic makeup interact to influence individual preferences and responses to foods. Models to incorporate the interaction of these factors in developing potential strategies to prevent disease and achieve better nutritional health.

NUR-Nursing Courses

NUR 100. Student Success in Nursing. 2 Hours.
This course will provide instruction regarding the competencies developed by the university to assist pre-nursing freshman students in making the transition from high school to college. Within the competencies specified by the university, students will be exposed to related topics in the School of Nursing (SON). Faculty expectations and student responsibilities will not only focus on the pre-nursing general studies but also will facilitate a platform for introducing expectations of faculty in the SON. Students will be prepped for the SON admission process, emphasizing the importance of good study habits, time management, and test taking skills. Student will visit the SON historical archive and the Lister Hill Library to view the Nightingale letters. CPR, basic skills, and a shadowing experience will give the students a sense of the holistic approach to the nursing model of care.

NUR 101. Survey of the Profession of Nursing. 2 Hours.
Will provide a greater knowledge of the nursing profession to assist pre nursing freshmen students in making their final decision regarding their application to nursing school. Within the competencies specified by the university, students will also be exposed to related topics in the School of Nursing (SON). Faculty expectations and students responsibilities will not only focus on careers in nursing but also will facilitate a platform for introducing students to nursing regulation and career opportunities. The nursing curriculum will be presented and pedagogical links will be made between selected websites and the need for that knowledge for future registered nurses. Students will also be prepped for the licensure process, emphasizing the importance of high moral character. Guest speakers representing select Advanced Practice Nursing Roles will be available to answer questions and discuss their experiences as advanced practice nurses. Students will conclude the semester with a scholarly paper on the topic of their choice.

NUR 305. Principles of Oncology Nursing. 3 Hours.
This course provides a theoretical base for students to diagnose and manage oncology health problems in adults. Emphasis is placed on integration of knowledge of pathophysiology, clinical assessment, and nursing and medical management.

Prerequisites: NUR 346 [Min Grade: C] or NUR 347 [Min Grade: C]

NUR 307. Interprofessional Global Health Service Learning I. 1 Hour.
This course provides students with an opportunity to apply principles of interprofessional collaboration, community partnerships, and global health in the development of a plan to address a global health problem in collaboration with a community partner. Students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the ecological framework developing a plan to address a specific global health problem with a community partner. The course focuses on planning a service learning project that will benefit a community partner. The project is planned and carried through by an interprofessional team. The course is primarily experiential, with students’ time spent on planning the project and learning leadership and project planning skills.

NUR 308. Interprofessional Collaboration (IPC) and Community Partnerships in Global Health. 1 Hour.
This course provides students with an understanding of principles of interprofessional collaboration and community partnerships that, together with key social and economic concepts of global health, enables them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners. Working in interdisciplinary teams, students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the socioecological framework to develop a plan to address a specific global health problem with a community partner.

NUR 310. Concepts of Professional Nursing. 3 Hours.
The purpose of this course is to introduce fundamental nursing concepts and processes of professional nursing that assist in providing safe, quality nursing care to clients and their families. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the professional attributes of the nurse, legal and ethical implications for nursing practice and beginning care competencies.

NUR 311L. Nursing Skills Development I. 2 Hours.
The purpose of this course is to introduce the fundamental nursing skills required to provide safe, quality care. The course focuses on the role of the nurse as caregiver. Emphasis is on basic psychomotor skills and beginning care competencies.

NUR 312L. Health Assessment Across the Lifespan. 2 Hours.
The purpose of this course is to develop the skills necessary to complete a holistic assessment including physiological, spiritual, cultural, psychological, and developmental components. The course focuses on the role of the nurse as caregiver and educator. Emphasis is placed on the skills and clinical reasoning necessary to assess clients/patients across the lifespan.

NUR 313L. Concepts of Professional Nursing Practicum. 2 Hours.
The purpose of this course is to apply fundamental nursing concepts and processes in providing safe, quality family centered nursing care in a variety of settings. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the professional attributes of the nurse, legal and ethical implications for nursing practice and beginning care competencies.

The purpose of this course is to introduce foundational pathophysiological and pharmacokinetic concepts and processes. Emphasis is on cellular injury, immunity, fluid/electrolytes, genetics, pharmacokinetics, and medication calculation.
NUR 315. Population Focused Health Care. 2 Hours.
The purpose of this course is to introduce health care delivery systems, behaviors and practices that affect the health status and well-being of populations (or the "overall health of populations"). The focus is on the role of the nurse as caregiver, advocate, and collaborator. Emphasis is on strategies related to health promotion, illness and injury prevention, health literacy and cultural competency to improve the care of individuals, families, groups, communities and populations.

NUR 320. Social Responsibility in Global Health. 1 Hour.
This course provides students with an understanding of key social and economic concepts of global health that, together with an understanding of interprofessional collaboration and community partnerships, will enable them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners. The course is open to undergraduate and graduate students who are enrolled in two co-requisite courses that are requirements for students participating in the interprofessional global health service learning program at the University of Alabama at Birmingham. Working in interdisciplinary teams, students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the socioecological framework to develop a plan to address a specific global health problem with a community partner.

NUR 321L. Nursing Skills Development II. 1 Hour.
The purpose of this course is to build on nursing skills attained in Nursing Skills Development I to provide safe, quality nursing care. The course focuses on the role of the role of the nurse as caregiver and collaborator. Emphasis is on clinical reasoning and intermediate psychomotor skills and care competencies.
Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: P] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 322. Concepts of Behavioral Health Nursing. 3 Hours.
The purpose of this course is to introduce concepts of mental health and mental illness throughout the lifespan with consideration given to therapeutic communication and the implementation of safe, quality nursing care to clients and their families. Focus is on the roles of the nurse as caregiver, educator, counselor, advocate, and care manager. Emphasis is on the professional attributes of the nurse concerning legal, ethical, and cultural implications for nursing practice across the mental health-illness continuum.
Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 323L. Concepts of Behavioral Health Nursing Practicum. 2 Hours.
The purpose of this course is to implement therapeutic communication and safe, quality, family-centered nursing care to clients in mental health settings. Focus is on the roles of the nurse as caregiver, educator, counselor, advocate, and care manager. Emphasis is on the professional attributes of the nurse concerning legal, ethical, and cultural implications for nursing practice across the mental health-illness continuum.
Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]
NUR 335. Issues in Women's Health. 3 Hours.
This course will identify a broad range of health issues that are either unique to women or of special importance to women and will also examine the roles that women play as both providers and consumers of health care in the United States. The student will also provide with the opportunity to explore health care issues of women from adolescence through old age. The interface of gender, socio-economic disadvantages and minority status will be discussed. Feminist theory will provide the framework for exploring these issues. A primary object of this course is enabled the student to become an informed consume of health care services.

NUR 336. Leadership. 2 Hours.
The purpose of this course is to introduce concepts of leadership development. The focus is on the roles of leader, advocate and collaborator. Emphasis is on the development of individual leadership knowledge and skills.

NUR 345L. Basic Nursing and Health Assessment Skills. 4 Hours.
NUR 345L provides basic nursing and health assessment skills that will form the foundation for more complex knowledge and skills in subsequent nursing courses. Legal and ethical (e.g., confidentiality, documentation), communication, and health concepts are reinforced throughout the course. The role of caregiver is presented as an integral part of the health care team. Learning experiences occur in the nursing skills laboratory and are essential to the course. Although knowledge and skills in this course are focused on adults, many of the concepts are adaptable to care of patients of all ages and target populations. Admission to the School of Nursing is required.

NUR 346. Pathophysiology for Professional Nursing. 3 Hours.
This course builds on the knowledge of basic anatomy and physiology to provide the adult learner with an opportunity to apply previously learned principles in explaining physiologic adaptations to pathogenic changes for the purpose of enhancing nursing care of patients. The first part of the course emphasizes the basic concepts of pathophysiology including cellular level of response, genetic alterations, fluid and electrolytes, acid-base balance, and immune response. The second part of the course focuses on the application of the basic concepts to body systems and disease processes. The relationship between pathophysiological concepts and nursing care of clients will be emphasized throughout the course. Admission to the School of Nursing is required.

NUR 347. Pathophysiology for Professional Nursing Practice for RNs. 3 Hours.
This course builds on basic anatomy and physiology to provide the adult learner with an opportunity to apply previously learned principles in explaining physiologic adaptations to pathogenic changes for the purpose of enhancing nursing care of patients. The first part of the course emphasizes the basic concepts of pathophysiology: cellular level of response, genetic alterations, fluid and electrolytes, acid-base balance, and immune response. The second part of the course focuses on the application of the basic concepts to body systems and disease processes. The relationship between pathophysiological concepts and nursing care of clients will be emphasized throughout the course. Admission to the RN Mobility Program required.

NUR 355. Foundations of Professional Nursing. 4 Hours.
NUR 355 focuses on the practice of professional nursing as an evidence-based, goal-directed activity for assisting patients to achieve optimal health by meeting basic human needs, providing holistic care, and engaging in health promotion. Concepts of communication, interpersonal relationships, and nursing process as a clinical decision-making strategy are introduced. Chronic and long-term internal and external environmental variables that affect the health of adults are explored. The professional role of the caregiver is developed in diverse learning experiences. Admission to the School of Nursing is required.

NUR 356L. Foundations of Professional Nursing Practicum. 3 Hours.
In this practicum component of Foundations of Professional Nursing, students are guided in the application of content studied in the theoretical portion of the course. Competencies needed by the nurse generalist in the care of adult patients are introduced and practiced. Critical thinking and clinical decision-making skills utilized by the nurse caregiver are emphasized in diverse health care settings. Admission to the School of Nursing is required.

NUR 365. Maternal-Newborn and Women's Health Nursing. 3 Hours.
The purpose of this course is to provide content necessary to promote the care of women, newborns, and the childbearing family. Focus is on knowledge that will be necessary for students to be able to promote, maintain, and restore the adaptation of culturally diverse well and high-risk clients related to, but not limited to, the childbearing experience. Content includes internal and external variables affecting the health of the family during the antepartal, intrapartal and postpartal phases of childbearing and the neonatal period. Content builds upon past knowledge from the scientific and humanistic disciplines, increases the students' understanding of ethical reasoning and decision-making as applicable to this client population and contributes to the body of knowledge necessary for future nursing courses. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: C] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C]) and NUR 370 [Min Grade: C] (Can be taken Concurrently)

NUR 366L. Maternal-Newborn and Women's Health Nursing Practicum. 2 Hours.
The purpose of this course is to provide opportunities to utilize the nursing process and critical thinking skills in caring for women, the childbearing family, and newborns. Focus is on nursing interventions in women's health and with the childbearing family that promote, maintain, and restore health. Clinical experiences are in primary and secondary settings.
Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: C] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C]) and NUR 370 [Min Grade: C] (Can be taken Concurrently)

NUR 368. Honors Seminar I: Introduction in Nursing Scholarship and Informatics. 1 Hour.
This course is designed to prepare students with knowledge and skills to begin a scholarly investigation applicable to a service learning context. Course content provides critical content that addresses Baccalaureate Essential IV, related to Information Management and Patient care Technology. Students will a) discover emerging trends of information technology that are transforming nursing practice; b) explore information sources; and c) begin to formulate ideas and strategies for potential service learning projects.
NUR 370. Clinical Pharmacology. 3 Hours.
This course focuses on the analysis and utilization of principles of pharmacology and pharmacokinetics for the purpose of planning, implementing, and evaluating therapeutic pharmacological interventions as they relate to nursing practice. The unique characteristics of special populations related to therapeutic needs, as well as drug absorption, metabolism, and excretion are defined. Admission to the School of Nursing is required.

NUR 374. Informatics and Research for Nursing Practice. 4 Hours.
This course is designed to prepare students with the knowledge and skills to: (1) locate and evaluate research relevant to nursing practice; (2) use a problem solving approach to examine questions identified in nursing practice; and; (3) identify technological solutions to enhance patient safety and outcomes. Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).

NUR 376. Nursing of the Older Adult. 3 Hours.
NUR 376 focuses on the unique needs of older adult patients who require nursing care in a variety of health care settings. The older adult as a heterogeneous, holistic person is emphasized in light of current and future health care needs. Concepts of healthy aging, and care in the preventive, restorative, acute and chronic domains will be explored. The professional role of the nurse as advocate is developed in diverse learning activities.

Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: C] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C]) or BY 216 [Min Grade: C]

NUR 378. Nursing of the Older Adult for RNs. 3 Hours.
NUR 378 focuses on the unique needs of older adult patients who require nursing care in a variety of health care settings. The older adult as a heterogeneous, holistic person is emphasized in light of current and future health care needs. Concepts of healthy aging, and care in the preventive, restorative, acute and chronic domains will be explored. The professional role of the nurse as advocate is developed in diverse learning activities. Admission to the RN Mobility Program required.

NUR 380. Spanish for Health Professionals. 3 Hours.
Intensive conversation to acquaint health professionals with intermediate structure of Spanish. The course focuses on practical vocabulary, idiomatic expressions, medical terminology and cultural patterns of Spanish-speaking patients.

NUR 381. Informatics and Research for Nursing Practice for RNs. 4 Hours.
This course is designed to prepare students with the knowledge and skills to: (1) locate and evaluate research relevant to nursing practice; (2) use a problem solving approach to examine questions identified in nursing practice; and; (3) identify technological solutions to enhance patient safety and outcomes. Quantitative Literacy is a significant component of this course (QEP).

NUR 383. Health Literacy Identifying Risk Populations. 3 Hours.
NUR 383 - Health Literacy Identifying Risk Populations is designed to provide students with a greater understanding and an improved knowledge level regarding the importance of health literacy and the challenges presented by low health literacy. Interventions and planned programs that are effective in the identification of low health literacy in America will be introduced to the student. The course will provide insight to the multidimensional nature of low health literacy and provide examples of multidisciplinary research in health literacy.

NUR 385. Nursing of the Psychiatric Mental Health Client. 3 Hours.
Content in NUR 385 will emphasize communication and therapeutic nursing interventions for clients adapting to internal and external environmental variables affecting mental health and psychopathology. The course focuses on the use of critical thinking and clinical decision-making skills in the promotion, maintenance and restoration of optimum mental health of individuals and families. Emphasis is placed on the independent and collaborative roles of nursing in identifying risk factors for mental disorders, assessing mental health status, and designing and implementing psychobiological and psychosocial interventions associated with expected therapeutic outcomes.

Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: P] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C]) and NUR 370 [Min Grade: C]

NUR 386L. Nursing of the Psychiatric Mental Health Client Practicum. 2 Hours.
This clinical course is focused on promotion, maintenance and restoration of mental health of individuals and families. Clinical experiences provide students with opportunities to utilize skills in the therapeutic use of self, critical thinking, and nursing process with clients in psychiatric mental health clinical settings.

Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: C] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C]) and NUR 370 [Min Grade: C]

NUR 387. Supplemental Academic Course for Support: (SACS). 1-3 Hour.
The purpose of this distance-accessible course is to introduce a structured format for students to review nursing concepts and processes related to a specific patient population. The course focuses on the role of the nurse as caregiver. Emphasis is on test-taking strategies and the review of didactic content to strengthen the student’s knowledge base.

NUR 388. Concepts of Adult Health Nursing II. 3 Hours.
The purpose of this course is to augment previous knowledge gained in Concepts of Adult Health Nursing I related to regulation and homeostasis, protection and movement, coping and stress tolerance and oxygenation. The course focuses on the role of the nurse as caregiver, manager, collaborator, and educator. Emphasis is on the nursing care and management of young, middle-age, and older adults.

Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: C] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 327L [Min Grade: C] and NUR 336 [Min Grade: C]

NUR 389L. Concepts of Adult Health Nursing II Practicum. 2 Hours.
The purpose of this course is to apply the expand role of the nurse in providing care for patients with alterations in regulation and homeostasis, oxygenation, and protection, and movement. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, and educator. Emphasis is on the nursing care and management of young, middle-age, and older adults.

Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: C] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 327L [Min Grade: C] and NUR 336 [Min Grade: C]

NUR 390. Independent Study in Nursing. 1-6 Hour.
Individually designed learning experiences. Must be a junior year nursing student and have a written Independent Study contract signed by the faculty and the Associate Dean.
NUR 391. Independent Study in Nursing. 1-6 Hour.
Individually designed clinical learning experiences. Must be a junior year nursing student and have a written Independent Study contract signed by the faculty and the Associate Dean.

NUR 392. Concepts of Maternal Child Health Nursing. 4 Hours.
The purpose of this course is to build upon knowledge gained in previous nursing and pre-nursing courses in the care of childbearing and childrearing families. This course focuses on the role of the nurse as educator, caregiver, collaborator, and advocate. The course emphasizes the application of theoretical and empirical knowledge to the nursing care of neonates, infants, children, adolescents, and adult women in diverse care settings.

Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: C] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 327L [Min Grade: C] and NUR 336 [Min Grade: C]

NUR 393L. Concepts of Maternal Child Health Nursing Practicum. 3 Hours.
The purpose of this course is to provide nursing practice opportunities to build upon knowledge and skills gained in previous nursing, pre-nursing and Concepts of Maternal Child Health Nursing. This course focuses on implementing the roles of the nurse as educator, caregiver, collaborator, and advocate. The course emphasizes the application of theoretical and empirical knowledge to the nursing care of neonates, infants, children, adolescents and adult women in diverse care settings.

Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: C] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 327L [Min Grade: C] and NUR 336 [Min Grade: C]

NUR 395. Community and Public Health Nursing. 3 Hours.
In this theory course, students will analyze theories, processes, issues, demographic data and epidemiological trends that affect population aggregates within diverse communities. Emphasis is on professional role development to promote nursing care focused on illness and injury prevention, health promotion, health maintenance, health education, and coordination of care for diverse aggregate groups in various community settings. Ethics and Civic Responsibility are significant components of this course (QEP).

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 385 [Min Grade: C](Can be taken Concurrently) and NUR 386L [Min Grade: C](Can be taken Concurrently) and NUR 376 [Min Grade: C](Can be taken Concurrently)

NUR 396L. Community and Public Health Nursing Practicum. 2 Hours.
In this practicum course, nursing students complete a portion of their clinical hours to advance the mission of social justice in health care through community engagement and service learning. Students apply community and public health concepts through engagement within communities as they implement the nursing process with diverse populations at various community sites; in simulated clinical activities; and at assigned community-based clinical facilities. Emphasis is on professional nurse role development focused on illness and injury prevention, health promotion, health maintenance, health education, and coordination of care for aggregate groups across the life span.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 385 [Min Grade: C](Can be taken Concurrently) and NUR 386L [Min Grade: C](Can be taken Concurrently) and NUR 376 [Min Grade: C](Can be taken Concurrently)

NUR 397. Community and Public Health Nursing for RNs. 4 Hours.
In this theory course, students will analyze theories, processes, issues, demographic data and epidemiological trends that affect the population aggregates within communities. Emphasis is on professional role development to promote nursing care focused on illness and injury prevention, health promotion, health maintenance, health education, and coordination of care for diverse aggregate groups in various community settings. Ethics and Civic Responsibility are significant components of this course (QEP).

NUR 401. Caring For America’s Heroes: An Introduction to the Veteran’s Healthcare Administration System. 3 Hours.
This course is designed to increase the student¿s understanding of long term and high acuity internal and external environmental variables which affect the health of the unique population of adult patients, veterans, within the Veterans Healthcare Administration (VHA). Knowledge gained in this elective course can be applied to the care of VHA patients in this and subsequent didactic and practicum nursing courses.

NUR 403. Primary Health Care in Low Resource Countries. 3 Hours.
This course is designed for the Advanced Health Care Provider who plans to deliver primary health care in countries considered to be low resource areas as designated by the World Health Organization. These students will study the epidemiology, pathophysiology, diagnosis, and management of infectious and parasitic diseases throughout the global community. In addition, nutritional deficiencies and obstetric problems will be reviewed. Emphasis will be placed on those health problems which are not common in high resource countries. Implementation of the World Health Organization’s Integrated Management standards will be included in the study of each disease as they apply to adults, adolescents, and children. Potential personal safety issues for world travelers, and information designed to alleviate these issues will be studied. Each student will focus on a specific country or global area for a more in-depth learning experience. Restrictions Nursing ONLY.

NUR 409. Healthcare and Information Technology. 2 Hours.
The purpose of this course is to integrate concepts of nursing informatics introduced in previous nursing coursework to enhance patient safety and quality outcomes. The focus is on the role of the nurse as caregiver, educator, collaborator, advocate, and consumer of research. The course emphasizes healthcare and information technologies.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 410. Evidence-Based Practice in Nursing. 2 Hours.
The purpose of this course is to provide the student with skills to apply evidence to practice. The course focuses on the role of the nurse as consumer of research. The emphasis of the course is on providing the foundation for identifying potential clinical problems, searching the literature for potential evidence-based solutions, and evaluating the quality of the research literature.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 419. Health Issues in Culturally Diverse Populations in the United States. 3 Hours.
This course provides students with an overview of health issues and health disparities confronting culturally diverse populations in the United States. The course also addresses genetic, cultural, historical and demographic factors that influence these health issues and disparities, implications for culturally effective health care, and for development of health policy.
NUR 426. Concepts of Complex Nursing. 2 Hours.
The purpose of this course is to integrate and apply knowledge from previous courses to the care of patients and their families experiencing complex health conditions. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, leader, and educator. Emphasis is on the nursing care and management of diverse patients and families with complex health conditions.

Prerequisites: NUR 388 [Min Grade: C] and NUR 389L [Min Grade: C] and NUR 392 [Min Grade: C] and NUR 393L [Min Grade: C] and NUR 334 [Min Grade: C]

NUR 427L. Concepts of Complex Nursing Practicum. 2 Hours.
The purpose of this course is to apply the expanded role of the nurse in providing family centered nursing care for clients and their families experiencing complex health conditions. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, leader, and educator. Emphasis is on the nursing care and management of complex health issues for patients across the life-span in a variety of settings.

Prerequisites: NUR 388 [Min Grade: C] and NUR 389L [Min Grade: C] and NUR 392 [Min Grade: C] and NUR 393L [Min Grade: C] and NUR 334 [Min Grade: C]

NUR 428. Concepts of Community and Public Health Nursing. 2 Hours.
The purpose of this course is to provide a foundation for culturally competent care to populations in a community. The focus is on the roles of educator, caregiver, advocate, coach, collaborator, and consumer of research. Emphasis is on protecting and enhancing the health of local, state, national, and global populations.

Prerequisites: NUR 388 [Min Grade: C] and NUR 389L [Min Grade: C] and NUR 392 [Min Grade: C] and NUR 393L [Min Grade: C] and NUR 334 [Min Grade: C]

NUR 429L. Concepts of Community and Public Health Nursing Practicum. 2 Hours.
The purpose of this course is to apply content from previous courses to the care of patients and their families experiencing complex health conditions. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, leader, and educator. Emphasis is on the nursing care and management of complex health issues for patients across the life-span in a variety of settings.

Prerequisites: NUR 388 [Min Grade: C] and NUR 389L [Min Grade: C] and NUR 392 [Min Grade: C] and NUR 393L [Min Grade: C] and NUR 334 [Min Grade: C]

NUR 430. Perspectives in Global Health Leadership. 3 Hours.
This course is designed to provide students with an understanding of global aspects of health care leadership. The course will focus on identification of characteristics of global health care leaders, leadership theories, and strategies to develop one's own personal leadership abilities. The course will provide students with a unique opportunity to interact with health care leaders from countries around the world, and develop projects related to an aspect of global health care leadership of interest to each student.

NUR 435. Nursing of the Adult. 4 Hours.
NUR 435 focuses on patients across the adult lifespan who require nursing care in high acuity health care settings. Internal and external environmental variables that have implications for long-term and episodic care are studied in this course. Emphasis is placed on the use of the problem-solving process in health promotion, meeting physiological needs, and providing holistic care during illness and at the end of life. The professional role of the caregiver is further developed in increasingly complex learning experiences.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and (NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C])

NUR 436L. Nursing of the Adult Practicum. 3 Hours.
In the practicum component of Nursing of the Adult, students apply content learned in the companion theory course. Competencies needed by the nurse generalist in the care of adult patients are developed in increasingly complex learning experiences. Critical thinking and clinical decision-making skills utilized by the nurse caregiver in a variety of health care settings are emphasized. All Level 1 and Level 2 courses. Co-requisite: NUR 435.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and (NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C])

NUR 437. Principles of Genetics. 3 Hours.
This elective course provides the foundation to examination, integration, and evaluation of genetic principles to future advances in genetic health and counseling. Opportunity is given to apply ethical principles in decision making related to nursing care of families with genetic health patterns or problems. Must be enrolled in the School of Nursing.

NUR 439. Complementary Therapies and Integrative Health Care. 3 Hours.
The focus of this elective course is on holistic nursing utilizing complementary and alternative therapies and integrative health care as an emerging paradigm in the health care arena. This course will examine both the concepts of integrative health care and major complementary therapies, including theoretical basis and research support, actions, uses, contraindications, and side effects. The socio-cultural, economic, legal and ethical issues associated with complementary therapies will be included as well as standards for practice and available resources. Students will be encouraged to explore ways in which they can counsel patients regarding complementary therapies as well as potential inclusion of the therapies in their own practice.
NUR 442. Health, Education, and Social Welfare in a Global Community. 3 Hours.
The purpose of this course is to provide students with a cross-cultural experience in which they will spend time in a selected global community while learning about health, educational and social welfare issues. Students will participate in pre-trip seminars in Birmingham or on-line prior to travel. The seminar(s) will focus on an overview of the course, a model of assessing culture and an overview of selected global community’s culture. Students will also participate in seminars on a variety of health, education and social welfare topics provided by the course instructor and by resource persons from the selected global community.

NUR 444. Principles of Developmental Care Newborn Infants. 3 Hours.
Provides students with an overview of principles of individualized care for newborns and infants. The course also addresses principles of family-centered care as a key component of developmental care. Students review concepts and theories related to molecular biology, fetal, infant and family development, psychology, and sociology in assessing and planning care to promote optimal development of high risk infants and families. Students explore roles of nurses and other interdisciplinary team members in developmental care, are assessed, and develop plans to promote organizational change in order to incorporate developmental care principles in a clinical setting.
Prerequisites: NUR 366L [Min Grade: C] and NUR 365 [Min Grade: C]

NUR 445. Nursing of the Child and Adolescent. 3 Hours.
Course provides knowledge that is essential for the professional nursing care of children from infancy through adolescence within the context of the family. Students examine the physical, nutritional, developmental, psychological, cognitive, psychosocial, educational, and spiritual needs of children and adolescents adapting to common and complex environmental variables that affect health. Students explore the roles of the professional nurse as caregiver, educator, advocate, and collaborator in providing nursing care to children and adolescents in a variety of settings. Writing competency is an additional focus of this course. Writing is a significant component of this course (QEP).
Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and (NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C])

NUR 446L. Nursing of the Child and Adolescent Practicum. 2 Hours.
NUR 446L provides clinical nursing practice opportunities with children/adolescents within the context of the family in selected hospital and community settings and the nursing simulations laboratory. Students apply knowledge of physical, nutritional, developmental, psychological, cognitive, psychosocial, educational, and spiritual needs of children adapting to common and complex environmental variables that affect health. Students implement the roles of the professional nurse as caregiver, educator, advocate, and collaborator in providing nursing care to children and adolescents in a variety of settings.
Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and (NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C])

NUR 447L. Synthesis and Assimilation Practicum. 4 Hours.
The purpose of this course is the synthesis and assimilation of skills and clinical reasoning drawn from all previous nursing courses and is intended to prepare students to function independently in the management and provision of nursing care to an assigned cohort of patients. The focus of the course is on the professional roles of caregiver, educator, consumer of research, advocate, counselor, leader, and inter- and intra-professional team member. The course emphasizes quality and safety in the provision of nursing care.
Prerequisites: NUR 409 [Min Grade: C] and NUR 410 [Min Grade: C] and NUR 426 [Min Grade: C] and NUR 427L [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: C] and NUR 431L [Min Grade: C]

NUR 448. Transition to Professional Nursing Practice. 2 Hours.
The purpose of this course is to facilitate the transition of the student into the role of a professional nurse. The course focuses on all professional nursing roles. Emphasis is on leadership and management theories and models, resource allocation and management, legal implications of practice, continuous quality improvement, healthcare systems, and contemporary issues in healthcare.
Prerequisites: NUR 409 [Min Grade: C] and NUR 410 [Min Grade: C] and NUR 426 [Min Grade: C] and NUR 427L [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: C] and NUR 431L [Min Grade: C]

NUR 449. Synthesis Review Course. 1 Hour.
The purpose of this course is to prepare the student to successful complete the NCLEX® examination. The course focuses on all professional nursing roles. Emphasis is on the synthesis of knowledge from all nursing courses as well as the humanities, and the social, behavioral, and natural sciences.
Prerequisites: NUR 409 [Min Grade: C] and NUR 410 [Min Grade: C] and NUR 426 [Min Grade: C] and NUR 427L [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: C] and NUR 431L [Min Grade: C]

NUR 450. Honors Seminar I - Introduction to Nursing Research. 1 Hour.
The purpose of this course is to provide the student with introductory knowledge of nursing research. The course focuses on the role of the nurse researcher with emphasis on providing the fundation for understanding the role of nursing research in nursing practice and in healthcare, conducting ethical research, and searching the literature for an area of research interest.

NUR 451. Honors Seminar II - Exploring Nursing Research. 2 Hours.
This course is designed to prepare students with the knowledge and skills to: (1) locate and examine nursing research relevant to a specific nursing problem; (2) discuss the quality of qualitative and quantitative research evidence; and (3) discuss common nursing research designs and methodologies.
Prerequisites: NUR 450 [Min Grade: C]

NUR 452L. Honors Seminar III - Research Immersion. 3 Hours.
This course provides opportunities for participation in an ongoing research project. Course content includes information about the role of teams in research, the role of the nurse in leading research teams, and guidelines for preparation of manuscripts and presentations. Course activities include discussion research projects and exploration of the student’s role as a team member. Professional expectations include dissemination of research experiences with peers and communities of interest.
Prerequisites: NUR 450 [Min Grade: C] and NUR 451 [Min Grade: C]
NUR 455. Leadership and Management in Professional Nursing. 3 Hours.
This course focuses on leadership and management theories and models, resource allocation and management, delegation, conflict resolution, legal implications of practice, managed care, evaluation of practice, continuous quality improvement, healthcare systems, and contemporary issues in the workplace. Emphasis is placed on the integration of all professional role behaviors, application of research, and leadership/management of care as the transition is made from the student role to that of practicing professional nurse. **Prerequisites:** NUR 435 [Min Grade: C] and NUR 436L [Min Grade: P] and NUR 445 [Min Grade: C] and NUR 446L [Min Grade: P]

NUR 456L. Leadership and Management in Professional Nursing Practicum. 5 Hours.
NUR 456L - Leadership and Management in Professional Nursing Practicum - 5 Capstone course focuses on direct and indirect clinical performance in the areas of nursing process, leadership and management, evidence-based practice, and the demonstration of professional nursing role behavior as the transition is made from student role to practicing nurse professional. As a capstone course for the BSN program, experiences in this course will also provide the student with opportunities to demonstrate discipline-specific proficiency related to professional practice, quantitative literacy and ethics/civic responsibility. **Prerequisites:** All courses in the nursing program, except NUR 395 and NUR 396L which may be taken prior to or concurrently with NUR 456L. Co-requisite: NUR 455.

NUR 457. Leadership and Management in Professional Nursing for RNs. 3 Hours.
This course focuses on leadership and management theories and models, resource allocation and management, delegation, conflict resolution, legal implications of practice, managed care, evaluation of practice, continuous quality improvement, healthcare systems, and contemporary issues in the workplace. Emphasis is placed on the integration of all professional role behaviors, application of research, and leadership/management skills.

NUR 458L. Clinical Practicum for RNs. 2 Hours.
This practicum is designed to enable RN students to build on their existing clinical expertise, broaden their exposure to different specialty areas, and apply theory learned throughout the BSN curriculum to meet the needs of individual clients, client groups, other health care providers, and the public at large. As a capstone course for the RN Mobility Program, specific experiences will provide the student with opportunities to develop leadership/management skills while working with aggregate groups within the community and to demonstrate discipline-specific proficiency related to writing, quantitative literacy, and ethic/civic responsibility.

NUR 462. Neonatal Behavior Assessment in Clinical Nursing Practice. 2 Hours.
This elective course provides students with the knowledge and skills of neonatal behavioral assessment. Focus is placed upon concepts underlying the Brazelton Neonatal Behavioral Assessment Scale, behavioral characteristics of newborns, and cultural differences and assessment of low and high risk neonates.

NUR 465. Concepts of Management of the High Risk Neonate. 3 Hours.
This course provides theoretical concepts essential to the nursing management of high-risk neonates and families. Students examine the impact of environmental variables on the biophysical, psychological, socio-cultural, spiritual, development, and educational needs of the neonate. The focus of the course is on the concepts of health promotion, maintenance, and restoration of the high-risk neonate and family as they adapt to environmental variables. Students examine legal, historical, political, socio-cultural, ethical, technological, and economic issues related to the care of high-risk neonates and their families. In addition, students analyze current research and the role of the professional nurse in providing care to high risk neonates and families. **Prerequisites:** (NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C])

NUR 474. Transition to Professional Nursing Practice. 4 Hours.
Using an online format, this course is designed to enhance the registered nurse's knowledge of the role of the professional nurse in meeting the health needs of society. Historical, legal, political, and ethical issues affecting the profession will be examined. The relationship between selected issues, trends, and theories and professional nursing practice will be analyzed. Students will examine behaviors related to various roles of the professional nurse, including caregiver, teacher, advocate, research consumer, and counselor. Additionally, this course addresses communication skills necessary to a professional nurse including writing and computer literacy. Writing and Ethics and Civic Responsibility are significant components of this course (QEP).

NUR 475. Health Assessment Across the Lifespan for RNs. 4 Hours.
The structure of the course allows the student opportunity for directed and self-directed learning experiences. In an online classroom, students are guided in a series of learning activities designed to increase the knowledge and skill of the professional nurse related to health assessment of individuals and family. In addition to physical assessment, students will review other components of a holistic assessment including spiritual, cultural, psychological, and developmental assessment. Admission to the RN Mobility Program is required.

NUR 475L. Health Assessment Across the Lifespan for RNs. 4 Hours.
The structure of the course allows the student opportunity for directed and self-directed learning experiences. In an online classroom, students are guided in a series of learning activities designed to increase the knowledge and skill of the professional nurse related to health assessment of individuals and family. In addition to physical assessment, students will review other components of a holistic assessment including spiritual, cultural, psychological, and developmental assessment. Admission to the RN Mobility Program is required.

NUR 478. Sexuality Issues in Health and Illness: A Lifespan Approach. 3 Hours.
This elective course includes the ethical, social, biological and psychological concepts of human sexuality. Open to non-nursing majors with permission of instructor.

NUR 481. Advanced Spanish for Health Professionals. 3 Hours.
This advanced course emphasizes and expands intensive conversation, technical readings and vocabulary pertinent to the medical field. The course focuses on practical vocabulary, idiomatic expressions, medical terminology and cultural patterns of Spanish-speaking patients. **Prerequisites:** NUR 380 [Min Grade: C]
NUR 484. Honors Seminar II: Service Learning Project Development/SL. 3 Hours.
This course provides opportunities for innovative practice that examines holistic client needs and nursing roles regarding those needs. Course content provides critical content that addresses Baccalaureate Essential III, related to Scholarship for Evidence-Based Practice. Through a service learning experience, students analyze a clinical problem or topic and design a service learning strategy to further develop evidence-based nursing practice relative to it. Service Learning has three major components: academic learning, civic responsibility, and meaningful service. Course activities include discussions that focus on evidence-based practice as students initiate participation with a service learning partner and design their projects.
Prerequisites: NUR 368 [Min Grade: C]

NUR 486. Honors Seminar III: Project Implementation and Dissemination. 3 Hours.
This course provides opportunities for implementation of an innovative, evidence-based practice which integrates human responses to health and illness and professional practice roles. Course content includes information about evidence-based practice, professional nursing roles, and guidelines for preparation of manuscripts and presentations. Course activities include discussion and application of innovative practice approaches within the service learning context. Professional expectations include sharing of outcomes of the service learning project with peers, agencies and communities of interest.

NUR 490. Independent Study in Nursing. 1-6 Hour.
Independent Study in Nursing. Must be a senior year nursing student and have a written Independent Study contact signed by the Associate Dean.

NUR 491. Independent Study in Nursing. 1-6 Hour.
Independent Study in Nursing. Must be a senior year nursing student and have a written Independent Study contact signed by the Associate Dean.

NUR 499. Living with Loss. 3 Hours.
This elective course includes loss, grief, body-image changes, loss due to chronic conditions, and loss of life in childhood and adulthood, explored from the viewpoint of health-care professionals.

NWH-Nursing - Womens Health Courses

National Student Exchange A Courses

NSEA 100. National Student Exchange Level I Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 100 level.

NSEA 200. National Student Exchange Level IV Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 200 level.

NSEA 300. National Student Exchange Special Topics. 15 Hours.
This course takes place via the National Student Exchange Program and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 300 level.

NSEA 400. National Student Exchange Level IV Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 400 level.

National Student Exchange B Courses

NSEB 100. NSE Level I Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 100 level.

NSEB 200. NSE Level II Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 200 level. Restrictions.

NSEB 300. NSE Level III Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 300 level.

NSEB 400. NSE Level IV Special Topics. 15 Hours.
This course takes place via reciprocal exchange and has been evaluated by the appropriate UAB Academic Department as satisfying degree requirements at the 400 level.

OB-Oral Biology Courses

ONC-Oncology Courses

OPT-Optometry Courses

OPT 101. Introduction to Optometry. 2 Hours.
History of optometry, ethics in health care, ethical problems in clinical practice, legal basis for the practice of optometry, licensure and regulation of optometrists, demographics and career options, debt management.

OPT 110. Geometric and Physical Optics. 3 Hours.

OPT 111. Introduction to Optometry. 2 Hours.

OPT 112. Geometric and Clinical Optics. 5 Hours.
Basic concepts of light, vergence, reflection. Optical imaging properties of prisms, thin lenses (spherical and toric), spherical refracting surfaces, multi-element systems, thick lenses, plane mirrors and curved mirrors. Determination and utilization of cardinal points for thick lenses and multi-element systems is also covered. Laboratory exercises illustrate and reinforce lecture topics using optical bench apparatus.

OPT 112L. Geometric & Clinical Optic Lab. 0 Hours.
Geometric & Physical Optic Lab.

OPT 112R. Geometric/Physical Optics R. 3 Hours.
Repeat of the original Geometric and Physical Optics course, OPT 112.

OPT 121. Ocular Immunology/Microbiology. 2 Hours.
Ocular Immunology and Microbiology.

OPT 121L. Ocular Immunology/Micro Lab. 0 Hours.
Ocular Immunology and Microbiology Lab.

OPT 122. Public Health Optometry I. 1 Hour.

OPT 131. Ophthalmic Materials. 2 Hours.

OPT 131L. Ophthalmic Materials Lab. 0 Hours.
OPT 132. Clinical Ophthalmic Optics. 2 Hours.
Basic concepts covering physical and optical properties of spherical, spherocylindrical (toric), and multifocal ophthalmic lenses. Lens materials and design options. Specification, measurement, and inter-relationship of refractive index, surface power, vertex power, center thickness, and edge thickness. Specification and measurement of ophthalmic prism, including Prentice’s Rule, decentration, and prism thickness. Segmented multifocal lenses, including image jump and vertical imbalance, are covered along with corrective options. Laboratory covers clinical measurement and evaluation of lens and frame parameters, and basic frame alignment and adjustment procedures.

OPT 132L. Clinical Ophthalmic Optics Lab. 0 Hours.


OPT 141L. Clinical Ophthalmic Optics Lab. 0 Hours.

OPT 141R. Vis Optics II Remediate/Repeat. 3 Hours.

OPT 142. Public Health Opt I. 1 Hour.

OPT 142L. Ophthalmic Materials. 0 Hours.

OPT 151. Clin Eval of the Vision System. 4 Hours.

OPT 151L. Clin Evaluation of Vis Sys Lab. 0 Hours.

OPT 152. Ophthalmic Materials. 1 Hour.

OPT 152L. Ophthalmic Materials Lab. 0 Hours.

OPT 211. Clinical Evaluation of the Visual System II. 7 Hours.
First course of Clinical Evaluation of the Visual System.

OPT 211L. CEVS I Lab. 0 Hours.

OPT 211R. Remedial CEVS II. 4 Hours.

OPT 212. Ocular Pharmacology. 4 Hours.

Continuation of CEVS sequence. (Prerequisite OPT 211).

OPT 221L. CEVS II Lab. 0 Hours.

OPT 221R. CEVS III Remediation. 3 Hours.

OPT 222. Diseases of the Anterior Seg. 5 Hours.
Diseases of the Anterior Segment.

OPT 222L. Diseases of the Ant. Seg. Lab. 0 Hours.

OPT 223. Public Health Optometry. 3 Hours.

OPT 224. Anomalies Binocular Vision I. 3 Hours.

OPT 224L. Anomalies Binocular Vision Lab. 0 Hours.

OPT 225. Diseases of the Posterior Seg. 3 Hours.

OPT 226. Clinicolegal Aspects of Opt.. 2 Hours.

OPT 227. Introduction to Clinic. 2 Hours.

OPT 228. Ophthalmic Imaging. 2 Hours.

OPT 228L. Ophthalmic Imaging Lab. 0 Hours.

OPT 230. Ocular Pharmacology. 3 Hours.
This course considers the classification and pharmacologic actions of currently employed ophthalmic drugs. Emphasis is placed on the clinical utilization of these drugs including indications, contraindications, dosages, and side effects, for the diagnosis and management of ocular disorders. (Prerequisite PHR 200).
Prerequisites: PHR 200 [Min Grade: C]

Continuation of CEVS sequence. (Prerequisite OPT 221).

OPT 231L. CEVS IV Lab. 0 Hours.

OPT 231R. CEVS IV Remediation/Repeat. 2 Hours.

OPT 232. Diseases of the Anterior Seg. 4 Hours.
Clinicopathology, differential diagnosis, and pharmacologic management of external ocular disease. Ocular trauma, diseases and dystrophies of the cornea, corneal ulcers, scleritis, episcleritis, uveitis, lid and conjunctival disease, and oncology of the anterior segment.

OPT 233. Anomalies Binocular Vision I. 2 Hours.

OPT 233L. Anomalies Binocular Vision Lab. 0 Hours.

OPT 234. Clinicolegal Aspects of Opt. 1 Hour.
Communication skills (verbal and written) are essential to be successful in optometry. By mastering effective communication skills you will become a more skilled optometrist. This course will enable you to increase your understanding of professional communication, communication problems and their solutions, and increase your awareness and skills for excellent professional communication.

OPT 235. Professional/Clinal Comm. 1 Hour.

OPT 236. Anomalies of BV I. 2 Hours.

OPT 236L. Anomalies of BV I Lab. 0 Hours.

OPT 237. Contact Lenses I. 2 Hours.
Designs of soft contact lenses and the properties of materials composing them. Optical principles of refractive correction with soft contact lenses, including tinted lenses and toric lenses to correct for astigmatism. Handling and care of soft lenses in the office and by patients. Patient selection, fitting, and prescription of soft lenses for daily and extended wear, anatomical, physiological, and visual side effects of soft contact lens wear, diagnosis and management of complications associated with soft lenses. Introduction to the optical principles of refractive correction using rigid gas-permeable contact lenses.

OPT 237L. Contact Lenses I Lab. 0 Hours.

OPT 239. Anomalies of Binocular Vision I. 2 Hours.
Diagnosis and clinical characteristics of heterophoria, fixation disparity, accommodative disorders, aniseikonia, amblyopia, strabismus, suppression, anomalous retinal correspondence, nystagmus, and extraocular muscle disorders presented. (Prerequisites OPT 221, VS 122).

OPT 239L. Anomalies of BV I Lab. 0 Hours.

OPT 241. Intro to Clinic. 1 Hour.

OPT 241L. Anomalies of BV I Lab. 0 Hours.

OPT 242. Advanced Clinical Procedures I. 1 Hour.

OPT 242L. Advanced Clin Procedures I Lab. 0 Hours.

OPT 243. Diseases of Post Segment I. 3 Hours.

OPT 243R. Remedial Disease Post Seg I. 2 Hours.

OPT 244. Public Health Opt II. 1 Hour.

OPT 245. Intro to Clinic. 1 Hour.

OPT 301. Advanced Clinical Procedures I. 1 Hour.
Epidemiology, etiology, differential diagnosis and management of vision problems. Emphasis on refractive conditions, eye not correctable to 20/20, headache, monocular diplopia. Specialized vision and advanced refractive techniques. Case reports. (Prerequisites OPT 221, VS 122).

OPT 310. Advanced Clin Proc I Lab. 0 Hours.

OPT 311. Anomalies of Binocular Vis II. 4 Hours.

OPT 311L. Anomalies of BV II Lab. 0 Hours.
OPT 312. Contact Lenses. 5 Hours.
OPT 312L. Contact Lenses Lab. 0 Hours.
OPT 312R. Remedial Contact Lens I. 2 Hours.
OPT 313. Geriatric Optometry. 1 Hour.
OPT 314. Low Vision. 2 Hours.
OPT 314L. Low Vision Lab. 0 Hours.
OPT 314R. Remedial Low Vision. 2 Hours.
OPT 315. Physical Diagnosis. 3 Hours.
OPT 315L. Physical Diagnosis Lab. 0 Hours.

OPT 316. Diseases of the Posterior Segment. 2 Hours.
Diseases and disorders of the vitreous, retina and choroid: clinicopathology, differential diagnosis, and management of vitreal, retinal, and choroidal diseases. Retinal vaso-occlusive diseases, diabetic retinopathy, exudative maculopathies, hereditary vitreal, retinal and choroidal dystrophies, vitreous degeneration, peripheral retinal disorders. Ocular Oncology of the Posterior Segment. (Prerequisites OPT 230, OPT 231, PAT 504).

OPT 317. Contact Lenses II. 3 Hours.
Designs of rigid contact lenses and the properties of materials composing them. Optical principles of refractive correction with rigid contact lenses, including bitoric lenses to correct for astigmatism. Handling and care of rigid lenses in the office and by patients. Patient selection, fitting, and prescription of rigid lenses, diagnosis and management of side effects or complications associated with rigid lenses. Use of contact lenses (soft and rigid) in special cases: presbyopia, large amounts of astigmatism, keratoconus, and following eye surgeries such as cataract extraction, keratoplasty, and refractive surgery. Prescribing contact lenses for infants, toddlers, and children, for protection of the traumatized cornea, and for topical delivery of medications. (Prerequisite OPT 237).

OPT 317L. Contact Lenses II Lab. 0 Hours.

OPT 319. Anomalies of Binocular Vision II. 3 Hours.
Treatment of heterophoria, fixation disparity, accommodative disorders, aniseikonia, amblyopia, strabismus, suppression, anomalous retinal correspondence, nystagmus, and extraocular muscle disorders presented. (Prerequisite OPT 239).

OPT 319L. Anomalies Binocular Vis II Lab. 0 Hours.

OPT 320. Clinical Management of Vision Problems. 2 Hours.
Epidemiology, etiology, signs, symptoms, diagnosis and management of vision problems. Light sensitivity, refractive amblyopia, external eye disease, cataract, color deficiency, dissatisfied refractive patient, vertical deviations, induced refractive change. (Prerequisites OPT 231, OPT 310).

Prerequisites: OPT 231 [Min Grade: C] and OPT 310 [Min Grade: C]

OPT 320L. Clin Mgmt of Vis Problems Lab. 0 Hours.

OPT 321. Neuro-Optometry. 2 Hours.
OPT 321R. Neuro Optometry Repeat. 2 Hours.

OPT 322. Pediatric Optometry. 4 Hours.
Pediatric Optometry.

OPT 322L. Pediatric Optometry Lab. 0 Hours.

OPT 323. Injections/Minor Surgical Proc. 2 Hours.

OPT 323L. Injections/Minor Surg Proc Lab. 0 Hours.

OPT 324. Business Aspects of Optometry. 2 Hours.
Business Aspects of Optometry.

OPT 325. Clinical Mgmt Vis Problems. 1 Hour.
OPT 326. Clinical Case Conference. 1 Hour.
Clinical Case Conference.

OPT 326L. Clinical Case Conference Lab. 1 Hour.

OPT 327. Ophthalmic Lasers. 1 Hour.

OPT 328. Environmental Vision/Sports Vision. 1 Hour.
Analysis of visual needs and problems in sports, home, school, industry, transportation and recreation. Special problems related to illumination, visual tasks and safety. Modification of visual abilities and alteration of environment to provide for safety and increased visual efficiency.

OPT 330. Physical Diagnosis. 2 Hours.

OPT 330L. Physical Diagnosis Lab. 0 Hours.

OPT 331. Pediatric Optometry. 3 Hours.

OPT 331L. Pediatric Optometry Lab. 0 Hours.

OPT 331R. Neuro-Opt Remediate/Repeat. 1 Hour.

OPT 332. Physical Diagnosis. 2 Hours.

OPT 332L. Physical Diagnosis Lab. 0 Hours.

OPT 333. Geriatric Optometry. 1 Hour.

OPT 334. Injections/Minor Surgical Proc. 2 Hours.

OPT 334L. Injections/Minor Surg Proc Lab. 0 Hours.

OPT 335. Ophthalmic Lasers. 1 Hour.

OPT 335L. Low Vision Lab. 0 Hours.

OPT 336. Business Aspects of Optometry. 3 Hours.

OPT 337. Public Health Optometry I. 1 Hour.

OPT 341. Business Aspects of Opt. 3 Hours.

OPT 341R. Remedial Business Aspects OPT. 3 Hours.

OPT 342. Neuro Optometry. 1 Hour.

OPT 342R. Remedial Neuro Optometry. 1 Hour.

OPT 343. Clinical Case Conference Lab. 1 Hour.

OPT 344. Low Vision. 2 Hours.

OPT 344L. Low Vision Lab. 0 Hours.

OPT 345. Neuro-Optometry. 1 Hour.

OT-Occupational Therapy Courses

Optometry Basic Hlth Science Courses

OBHS 111. Fundamentals of Dental and Optometry I. 5 Hours.
Fundamentals of Dentistry and Optometry I.

OBHS 112. Fundamentals Dent/Optometry II. 5 Hours.

OBHS 121. Systems 1 Neuroscience. 4 Hours.
Systems 1 Neuroscience.

OBHS 122. Systems 2 Gross Anatomy. 3 Hours.

OBHS 122L. Systems 2 Gross anatomy Lab. 0 Hours.

OBHS 123. Systems 3 Cardio/Respiratory. 3 Hours.

OBHS 131. Systems 4:Renal. 2 Hours.

OBHS 131L. System 1 Neuroscience Lab. 0 Hours.

OBHS 132. System 2 Gross Anatomy. 2 Hours.

OBHS 132L. System 2 Gross Anatomy Lab. 0 Hours.
PH 201. College Physics I. 4 Hours.
First term of non-calculus based physics. Linear and planar motion, Newton's Law, work and energy, gravitation, momentum, rigid body motion, statics, elasticity, oscillations, waves, sound, fluids, ideal gases, heat, and thermodynamics. Lecture, laboratory, and recitation must be taken concurrently.

PH 202. College Physics II. 4 Hours.
Second term of non-calculus based physics. Electricity and magnetism, optics, and modern physics. Lecture, laboratory, and recitation must be taken concurrently.

Prerequisites: PH 201 [Min Grade: C]

PH 202L. College Physics Laboratory II. 0 Hours.
Laboratory for PH 202. Lecture, laboratory, and recitation must be taken concurrently.

PH 221. General Physics I. 4 Hours.
First term of introductory, calculus-based general physics sequence covering classical mechanics: measurements, kinematics, vectors, translational and rotational dynamics, work, energy, momentum, statics, oscillatory motion, wave motion, and sound. Lecture and laboratory. Quantitative Literacy is a significant component of this course (QEP). PH 221 General Physics I Honors: This section of PH 221 is designed for students with strong interests and preparation in science, mathematics, and/or engineering. Topics are covered with more mathematical rigor and in greater depth than in regular sections.

Prerequisites: MA 125 [Min Grade: C]

PH 221L. General Physics Laboratory I. 0 Hours.
Laboratory for PH 221. Lecture, laboratory, and recitation must be taken concurrently.

PH 221R. General Physics I Recitation. 0 Hours.

PH 222. General Physics II. 4 Hours.
Second term of introductory, calculus-based general physics sequence covering electricity and magnetism, optics, and modern physics. Lecture, laboratory, and recitation must be taken concurrently.

PH 222L. General Physics Laboratory II. 0 Hours.
Laboratory for PH 222. Lecture, laboratory, and recitation must be taken concurrently.
PH 222R. General Physics II - Recitation. 0 Hours.
Second term of introductory, calculus-based general physics sequence covering electricity and magnetism, Coulomb's Law, electric fields, Gauss' Law, potential, capacitors, and dielectrics, Ohm's Law, DC circuits, magnetic fields, Ampere's Law, Biot-Savart Law, Faraday's Law, inductance, AC circuits, geometrical and physical optics. Lecture, Laboratory, and Recitation must be taken concurrently.

PH 231. General Physics I Laboratory. 1 Hour.
General Physics I Laboratory.

PH 232. General Physics II Laboratory. 1 Hour.

PH 301. Instructional Astronomy I. 4 Hours.
Survey of selected topics in astronomy of the universe, stellar systems and solar systems with a focus on preparing to teach. Lecture and Laboratory must be taken concurrently.

PH 301L. Instructional Astronomy Laboratory. 0 Hours.
Laboratory for PH 301. Lecture and Laboratory must be taken concurrently.

PH 302. Instructional Physical Science. 4 Hours.
Lecture and discussion in areas of the physical sciences importance to basic scientific literacy and to current technology, with a focus on preparing to teach. Must be taken concurrently with PH 302L.

PH 302L. Instructional Physical Science Laboratory. 0 Hours.
Laboratory for PH 302. Lecture and Laboratory must be taken concurrently.

PH 304. Intermediate Mechanics. 3 Hours.
Intermediate treatment of the kinematics and dynamics of classical systems. Presentation of problem solving techniques is emphasized.

Prerequisites: PH 222 [Min Grade: C]

PH 305. Intermediate Electricity and Magnetism. 3 Hours.
Intermediate treatment of electricity and magnetism including fields, potential, induction, Maxwell's equations, circuits. Presentation of problem solving techniques is emphasized.

Prerequisites: PH 222 [Min Grade: C]

PH 331. Classical Thermodynamics. 3 Hours.
Introduction to thermal phenomena on a macroscopic and statistical basic, principles and laws governing them.

Prerequisites: PH 222 [Min Grade: C] and MA 227 [Min Grade: C]

PH 351. Modern Physics I. 4 Hours.
Special relativity, atomic physics, and quantum mechanics. Theoretical and experimental studies to understand observable properties of matter in terms of microscopic constituents. Emphasis on the use of quantitative reasoning to solve modern physics problems. Writing and scientific ethics assignments based on laboratory experiences. Lecture and laboratory. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).

Prerequisites: PH 222 [Min Grade: C]

PH 351L. Modern Physics I Laboratory. 0 Hours.
Laboratory for PH 351. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).

PH 352. Modern Physics II. 4 Hours.
Atomic, molecular, and solid-state physics; semiconductors, lasers and nanotechnology; nuclear and particle physics; general relativity and cosmology. Emphasis on the use of quantitative reasoning to solve modern physics problems. Writing and scientific ethics assignments based on laboratory experiences. Lecture and laboratory. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).

Prerequisites: PH 351 [Min Grade: C]

PH 352L. Modern Physics II Laboratory. 0 Hours.
Laboratory for PH 352. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).

PH 397. Directed Reading in Physics I. 2-3 Hours.
Tutorial studies in physics offered by special arrangement. Permission of instructor.

PH 398. Directed Reading in Physics II. 2-3 Hours.
Tutorial studies in physics offered by special arrangement. Permission of instructor.

PH 420. Mathematical Methods of Physics I. 3 Hours.

Prerequisites: PH 222 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]

PH 421. Mathematical Methods of Physics II. 3 Hours.

Prerequisites: PH 420 [Min Grade: C]

PH 423. Computational Physics. 3 Hours.
Introduces symbolic and numerical computation through examples drawn from classical and modern physics, such as, classical mechanics, electromagnetism, and quantum mechanics. Emphasizes computer-based approaches to visualization, solution of ordinary differential equations, evaluation of integrals, and finding roots, eigenvalues, and eigenvectors.

Prerequisites: MA 252 [Min Grade: C] or EGR 265 [Min Grade: C] and PH 222 [Min Grade: C]

PH 425. Applications of Contemporary Optics I. 3 Hours.

Prerequisites: PH 222 [Min Grade: C]

PH 426. Applications of Contemporary Optics II. 3 Hours.

Prerequisites: PH 425 [Min Grade: C]

PH 427. Geometrical Optics. 4 Hours.

Prerequisites: PH 222 [Min Grade: C]

PH 427L. Geometrical Optics Laboratory. 0 Hours.
Laboratory for PH 427. Lecture and laboratory must be taken concurrently.

PH 428. Physical Optics. 4 Hours.

Prerequisites: PH 222 [Min Grade: C]
PH 429. Applications of Contemporary Optics III. 3 Hours.
Optical interactions with materials, including nonlinear optical effects, such as birefringence, electro-optics, photoelasticity, crystal optics, acousto-optics, and phase conjugation. Optical spectroscopies, such as spectroscopic instrumentation, lasers as spectroscopic light sources, fluorescence and Raman laser spectroscopy, and applications of laser spectroscopy in chemistry, environmental research, materials science, biology, and medicine.
Prerequisites: PH 425 [Min Grade: C] and PH 426 [Min Grade: C]

PH 432. Statistical Thermodynamics I. 3 Hours.
Statistical basis of laws of thermodynamics. Ensembles and partition functions. Quantum statistics of ideal gases, including photons and electrons. Applications to solids, real gases, liquids, and magnetic systems. Transport theory.
Prerequisites: PH 351 [Min Grade: C]

PH 433. Statistical Thermodynamics II. 3 Hours.
Statistical basis of laws of thermodynamics. Ensembles and partition functions. Quantum statistics of ideal gases, including photons and electrons. Applications to solids, real gases, liquids, and magnetic systems. Transport theory.
Prerequisites: PH 432 [Min Grade: C] and PH 445 [Min Grade: C]

PH 445. Electromagnetic Theory I. 3 Hours.
Electromagnetic theory approached from the standpoint of fields and using Maxwell’s equations.
Prerequisites: PH 222 [Min Grade: C]

PH 446. Electromagnetic Theory II. 3 Hours.
Electromagnetic theory approached from the standpoint of fields and using Maxwell’s equations.
Prerequisites: PH 445 [Min Grade: C]

PH 450. Introductory Quantum Mechanics I. 3 Hours.
Principles of quantum mechanics and their application to particle waves, angular momentum, tunneling, radiation, and selection rules. Perturbation and variational methods. Successful completion of PH 352 is recommended prior to registering for this class.
Prerequisites: PH 352 [Min Grade: C] and PH 461 [Min Grade: C]

PH 451. Introductory Quantum Mechanics II. 3 Hours.
Principles of quantum mechanics and their application to particle waves, angular momentum, tunneling, radiation, and selection rules. Perturbation and variational methods. Successful completion of PH 352 is recommended prior to registering for this class.
Prerequisites: PH 450 [Min Grade: C]

PH 453. Introductory Solid State Physics I. 3 Hours.
Properties of crystal lattices, lattice dynamics, lattice imperfections, and bonding energies. Electronic properties of dielectrics, semiconductors, and metals. Ferroelectric, magnetic, and optical properties of solids.
Prerequisites: PH 451 [Min Grade: C]

PH 454. Introductory Solid State Physics II. 3 Hours.
Properties of crystal lattices, lattice dynamics, lattice imperfections, and binding energies. Electronic properties of dielectrics, semiconductors, and metals.
Prerequisites: PH 453 [Min Grade: C] and PH 451 [Min Grade: C]

PH 455. Molecular Spectroscopy. 3 Hours.
Molecular Spectroscopy.
PH 482. Laser Physics II. 3 Hours.
Physical principles of laser operation and design. Spontaneous and stimulated emission, population inversion, light amplification, laser resonators, Q-switching, mode-locking, pulse shortening techniques, spectral narrowing, and tunable lasers. Individual types of lasers such as gas, solid state, dye, color center, and semiconductor. Practical applications of lasers as well as modern techniques and instrumentation in laser spectroscopy. Lecture and laboratory must be taken concurrently.
Prerequisites: PH 481 [Min Grade: C]

PH 482L. Laser Physics II Laboratory. 0 Hours.
Laboratory for PH 482. Lecture and laboratory must be taken concurrently.

PH 485. Laser Spectroscopy. 3 Hours.
Fundamental principles, experimental techniques, instrumentation, and practical applications of laser spectroscopy.

PH 486. Semiconductor Materials in Modern Technology. 3 Hours.
Brief review of electronic materials with emphasis on traditional and cutting edge silicon technology. Competing and complementary semiconductors covered in standard lecture and seminar style. Materials: compound and tertiary semiconductors, organic semiconductors, and wide bandgap semiconductors. Applications: optical and chemical sensors, microwave electronics, high power electronics, and lasers. Specific applications and materials determined by student interests.
Prerequisites: PH 352 [Min Grade: C] or EE 351 [Min Grade: C] or CH 326 [Min Grade: C]

PH 487. Nanoscale Science and Applications. 3 Hours.
Physics of electronic, mechanical, and biological properties of materials at the nanoscale level approaching one billionth of a meter. The applications of nanoscale materials in electronic, mechanical, and biomedical systems will be emphasized. Special tools in synthesis and characterization of nanomaterials will be discussed.
Prerequisites: (PH 221 [Min Grade: C] and PH 222 [Min Grade: C]) or (CH 115 [Min Grade: C] and CH 117 [Min Grade: C])

PH 490. Preparations for Teaching. 1-4 Hour.
This class prepares physics majors for successful teaching experiences. The course emphasizes a foundation of practical knowledge related to expectations and duties shared by teachers in physics education, as well as an opportunity to read, reflect, and discuss current research related to physics teaching and learning in secondary and higher education.
Prerequisites: PH 352 [Min Grade: C]

PH 491. Advanced Physics Laboratory I. 1-4 Hour.
This course provides physics majors with the opportunity to integrate the physics knowledge acquired in earlier courses in a research environment under the supervision of an approved UAB faculty mentor.
Prerequisites: PH 352 [Min Grade: C]

PH 492. Advanced Physics Laboratory II. 1-4 Hour.
This course provides physics majors with the opportunity to integrate the physics knowledge acquired in earlier courses in a research environment under the supervision of an approved UAB faculty mentor.
Prerequisites: PH 491 [Min Grade: C]

PH 493. Advanced Physics Laboratory III. 1-4 Hour.
This course provides physics majors with the opportunity to integrate the physics knowledge acquired in earlier courses in a research environment under the supervision of an approved UAB faculty mentor.
Prerequisites: PH 492 [Min Grade: C]

PH 495. Honors Research. 3 Hours.
Research in an area of active research, under the direction of a faculty sponsor and the Honors Committee. May be repeated.
Prerequisites: PH 352 [Min Grade: C]

PH 498. Directed Research. 1-6 Hour.
Directed Research.

PH 499. Physics Capstone. 3 Hours.
Instructional sessions, conclusion of research or teaching project and career planning activities aimed at the integration of physics knowledge and competencies in scientific writing, quantitative literacy, and ethics and civic responsibility.
Prerequisites: PH 490 [Min Grade: C] or PH 491 [Min Grade: C] or PH 495 [Min Grade: C]

PHL-Philosophy Courses

PHL 100. Introduction to Philosophy. 3 Hours.
Introductory survey of philosophy, its nature, methods and problems. Topics typically include, among others, God, freedom, knowledge, right and wrong. Classical and/or contemporary readings.

PHL 115. Contemporary Moral Issues. 3 Hours.
Survey of contemporary moral problems and dilemmas; introduction to methods and concepts of moral philosophy. Topics may include abortion, euthanasia, capital punishment, economic justice, homosexuality, animal rights, and respect for nature. Ethics and Civic Responsibility are significant components of this course (QEP).

PHL 116. Bioethics. 3 Hours.
Moral problems and dilemmas in medicine and health affairs; elementary methods and concepts of moral philosophy. Problems typically include, among others, AIDS and human and animal experimentation. Ethics and Civic Responsibility are significant components of this course (QEP).

PHL 120. Practical Reasoning. 3 Hours.
Survey of skills in critical thinking and scientific reasoning, including the ability to identify different kinds of arguments, recognize common fallacies of reasoning, and evaluate analogical, causal, and statistical arguments. Quantitative Literacy is a significant component of this course (QEP).

PHL 125. Introduction to Ethics. 3 Hours.
Elements of moral philosophy. Moral objectivity; connections among morality, rationality, and religion; nature and significance of moral value.

PHL 135. The Rule of Law. 3 Hours.
Law and legal institutions and processes, with emphasis on civil law. Development of legal ideas in such areas as torts, contracts, and property law. Role and history of legal institutions within political framework. Relations between courts and legislatures. Ethics and Civic Responsibility are significant components of this course (QEP).

PHL 203. Philosophy of Religion. 3 Hours.
Religion; its nature, warrant, and significance. God, evil, religious experience, faith, and reason.

PHL 204. Philosophy and Christianity. 3 Hours.
What Christians believe and why they believe it; foundations of Christian philosophical thought. Christian concepts of God, Christ, salvation, atonement, faith, and ethics.

PHL 205. Existentialism. 3 Hours.
What existentialists believe and why they believe it; foundations of existentialist philosophical thought. Existentialist concepts of freedom, commitment, anxiety, and authenticity.
PHL 208. Philosophy of the Arts. 3 Hours.
Art; its nature, scope, and significance. Concepts of expression, beauty, artistic creation, and standards of art criticism.

PHL 215. History of Moral Philosophy. 3 Hours.
Socrates to present, focusing on historical development of moral tradition that has shaped Western society. Plato, Aristotle, Aquinas, Hobbes, Hume, Kant, Mill, Nietzsche, and others.

PHL 220. Introduction to Symbolic Logic. 3 Hours.
Modern theory of deductive inference. Emphasis on recognizing valid forms of reasoning. Truth-function theory and some beginning concepts of quantification theory. Quantitative Literacy is a significant component of this course (QEP).

PHL 230. Social and Political Philosophy. 3 Hours.
Survey of contemporary debates concerning fundamental principles of political life. Topics typically include justification of political authority, the proper role of government in society, economic justice, freedom and rights, and the free enterprise system. Ethics and Civic Responsibility are significant components of this course (QEP).

PHL 232. Classical Political Thought. 3 Hours.
Development of Western political thought from Plato to Augustine; Theories of major political thinkers.

PHL 233. Modern Political Theory. 3 Hours.
Development of Western political thought from the early modern era to contemporary debates in works of Machiavelli to Mill. Theories of major political thinkers.

PHL 239. Classical Thought of India China and the West. 3 Hours.
Conceptions of self, society, and natural world.

PHL 240. History of Philosophy: Plato and Aristotle. 3 Hours.
Origins and development of Western philosophic tradition, with emphasis on writings of Plato and Aristotle. Concepts of knowledge, reality, and the good life.

PHL 270. The Scientific Enterprise. 3 Hours.
Science; its nature, scope, and significance. Scientific reasoning; science as social institution; ethical issues in science.

PHL 290. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 291. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 292. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 309. Teaching Practicum. 3 Hours.
Teaching experience in philosophy courses, supervised by a faculty member. Student must have previously taken the course for which the student will work within. Permission of Director of Undergraduate Studies required. Pass/Fail.

PHL 314. Philosophy and Feminism. 3 Hours.
Feminism; conceptual foundations, scope, and applications. Problems typically include, among others, feminist concepts of gender, reasoning, knowledge, and ethics. Prerequisite: One previous PHL course or permission of instructor.

PHL 315. Ethics: Theories of Good and Evil. 3 Hours.
Morality; its nature, principles, and scope. Normative and critical problems in moral philosophy; moral obligation. One previous PHL course or permission of instructor required.

PHL 320. Intermediate Symbolic Logic. 3 Hours.
Quantification theory; identity and definite description; soundness and completeness; skill in formal proof and ability to express arguments from natural language into artificial language. One previous PHL course or permission of instructor required.

PHL 321. Cooperation and Competition. 3 Hours.
This is an introductory course in game theory. Topics include game forms, Nash and subgame-perfect equilibrium, von Neumann-Morgenstern utility theory, design and solution of games, strategic implications of uncertainty and information asymmetries, institutions and elementary mechanism design, and basic evolutionary game theory. All topics are taught by application to examples from business, politics, law and individual behavior. Course work will include analysis of philosophical implications and applications. One previous PHL course or permission of instructor required. Quantitative Literacy is a significant component of this course (QEP).

PHL 322. Philosophical Issues in Behavior Economics. 3 Hours.
This is an intro to the relatively new field of Behavioral Economics. Behavioral economists attempt to develop empirically more plausible accounts of economic behavior by, among other things, incorporating insights from psychology into their models. In this course, we will discuss both theoretical developments and applications in a variety of fields, including industrial organization, marketing, and negotiations. Course work will include analysis of the philosophical issues raised in philosophy of mind, cognitive science, and philosophy of science. One previous PHL course or permission of instructor required.

PHL 330. Libertarianism: A Political Philosophy. 3 Hours.
Libertarians believe that the legitimate functions of government are limited to protecting people’s rights to life, liberty, and property. As such, libertarianism represents a fundamental challenge to the legitimacy of the modern welfare state. The purpose of this course is to examine systematically the libertarian vision of the proper role of government and the philosophical foundations of that vision. Readings are from historical and contemporary sources. One previous PHL course or permission of instructor required. Writing is a significant component of this course (QEP).

PHL 335. Philosophy of Law. 3 Hours.
Theories of the nature of law (natural law, realism, positivism, critical legal theory); interpretation of precedents, statutes, and Constitution; Constitutional protections such as freedom of speech and religion and the right of privacy; selected issues in criminal and civil law. Ethics and Civic responsibility are significant components of this course (QEP).

PHL 341. History of Philosophy: Descartes to Hume. 3 Hours.
Philosophy in modern era, focusing on continental rationalism and British empiricism; emphasis on theories of knowledge and reality; science, religion, and modernism. One previous PHL course or permission of instructor required. Writing is a significant component of this course (QEP).

PHL 348. American Philosophy. 3 Hours.
Major philosophers of classical American period; Pierce, James, and Dewey. Origins and nature of American pragmatism. One previous PHL course or permission of instructor required.
PHL 350. Philosophy of Language. 3 Hours.
Language; its nature, structure, and uses. Reference, meaning, communication, and interpretation; Russell, Wittgenstein, Chomsky, and Quine, among others. One previous PHL course or permission of instructor required.

PHL 372. Minds and Machines. 3 Hours.
Artificial intelligence; its philosophical foundations and implications. Topics may include mind-body problem, nature of intelligence, machine models of mind, computational processes, and mental representation. One previous PHL course or permission of instructor required.

PHL 375. Philosophy of Mind. 3 Hours.
Mind; its nature, forms, and functions. Concepts of mind/body, consciousness, rationality, and personal identity; free will. One previous PHL course or permission of instructor required. Writing is a significant component of this course (QEP).

PHL 380. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. One previous PHL course or permission of instructor required.

PHL 390. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. One previous PHL course or permission of instructor required.

PHL 391. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. One previous PHL course or permission of instructor required.

PHL 392. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. One previous PHL course or permission of instructor required.

PHL 405. Epistemology: Theories of Knowledge. 3 Hours.
Human knowledge; its nature, sources, and limits. Concepts of truth, objectivity, evidence, and belief. Two previous PHL courses or permission of instructor required. Writing is a significant component of this course (QEP).

PHL 408. Metaphysics. 3 Hours.
Reality; its basic elements, principles of existence and identity, and appearance and reality. Concepts of cause, matter, mind, realism, and anti-realism. Two previous PHL courses or permission of instructor required.

PHL 435. Philosophy of Law. 3 Hours.
Theories of the nature of law (natural law, realism, positivism, critical legal theory); interpretation of precedents, statutes, and Constitution; Constitutional protections such as freedom of speech and religion and the right of privacy; selected issues of criminal and civil law. Requires additional work not required in PHL 335. Ethics and Civic Responsibility are significant components of this course (QEP).

PHL 442. Hist of PHL: Kant and 19th Cent. 3 Hours.
Western philosophic tradition from Kant through end of nineteenth century. Kant, Hegel, Marx, Kierkegaard, and Mill, among others. One previous PHL course or permission of instructor required. 
Prerequisites: PHL 100 [Min Grade: D] or PHL 115 [Min Grade: D] or PHL 116 [Min Grade: D] or PHL 215 [Min Grade: D]

PHL 443. History of Philosophy: Twentieth Century. 3 Hours.
Major movements and problems of twentieth century philosophy. Moore, Russell, Wittgenstein, and Quine, among others. Two previous PHL courses or permission of instructor required.

PHL 470. Philosophical Problems in the Natural and Social Sciences. 3 Hours.
Nature and uses of science. Concepts of explanation, confirmation, scientific law, and theory; special problems in sciences. Two previous PHL courses or permission of instructor required.

PHL 490. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey using previous course work in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution. Course fulfills capstone requirement for Seniors.

PHL 491. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey using previous course work in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution. This course fulfills the capstone requirement for seniors.

PHL 492. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey using previous course work in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution. This course fulfills the capstone requirement for seniors.

PHL 499. Directed Studies. 1-3 Hour.
Special arrangement opportunity for in-depth study. Permission of Instructor Only.

PHR-Pharmacology Courses

PHR 200. General Pharmacology. 3 Hours.
Drugs and drug actions. Role of systemic drugs in diagnosis and therapy. Side effects of drug use.

PHS-Physical Sciences Courses

PHS 101. Physical Science. 4 Hours.
Scientific method and hands-on experience with integrated laboratory, discussion, and lecture. Emphasis on the use of quantitative reasoning to solve physical problems. Writing, assignments based on research and laboratory experiences that include collection and interpretation of experimental data. For nonscience majors. Lecture and laboratory. Writing and Quantitative Literacy are significant components of this course (QEP).

PHS 101L. Physical Science Laboratory. 0 Hours.
Must be taken concurrently with PHS 101 lecture.

PHS 102L. Physical Science Lab. 0 Hours.
Physical Science Laboratory.
PSC 110. Overview of Space Exploration. 3 Hours.
Descriptive approach to comparative planetology for non-science majors.
Analysis of recent, ongoing, and planned space missions with regard to
scientific objectives and experiment design.

PSC 141. Musical Acoustics. 3 Hours.
Scientific method and hands-on experience with integrated laboratory,
discussion, and lecture, emphasizing physical principles and experiences
important for understanding musical tones. For non-science majors.
See MU 141. Prerequisite for this class includes completion of Core
Curriculum mathematics requirement.

PSC 150. Science Writing. 3 Hours.
Scientific writing skills for science, mathematics, and engineering.
Identification of audience and purpose, generation of ideas, organization
of information and construction of arguments.

PSC 211. Discussion on the Nature of Matter. 3 Hours.
Honors seminar. Evolution of science and scientific method from early
Greek origins in context of the study of matter. Non-mathematical,
descriptive, and pictorial approach to understanding basic structure of
matter and materials of technological interest. See HON 211. Scientific
writing skills for science, mathematics, and engineering. Permission of
instructor or admission to Honors Program.

PHY-Physiology and Biophysics Courses

PSC-Political Science Courses

PSC 101. Introduction to American Government. 3 Hours.
This course will cover basic information about American government
and how it works. It is designed to give you a broad familiarity with a
variety of institutions and process in American government. Each section
provides you with an introduction to that area of the political process and
should provide a foundation for future study of the topic. Ethics and Civic
Responsibility are significant components of this course (QEP).

PSC 102. Introduction to Comparative Politics. 3 Hours.
Compares the political cultures and institutions of various political
systems around the world. Special emphasis upon the Communist
and post-Communist states, religiously-based states, and countries in
transition to democracy. (CP).

PSC 103. Introduction to International Relations. 3 Hours.
The introductory course in international relations is designed to be a
survey of the problems and practice of global cooperation and conflict.
Quantitative Literacy and Ethics and Civic Responsibility are significant
components of this course (QEP).

PSC 104. Introduction to Political Theory. 3 Hours.
This course surveys the intellectual origins and historical development of
political theory from the ancient Athenian experiment in direct democracy
to the contemporary American challenge of diversity in a representative
government. We will explore citizenship as a philosophical conversation
about rights and duties, equality and liberty, and the ethical responsibility
of the individual to the community. This course is specifically designed
to meet the requirements for Writing and Ethics and Civic Responsibility
learning outcomes. Writing and Ethics and Civic Responsibility are significant
components of this course (QEP).

PSC 110. Introduction to American Public Policy. 3 Hours.
Policy process at local, state, and federal levels of government.
Problem identification and definition; policy formulation and enactment;
implementation and evaluation; policy termination. (AG/PT).

PSC 120. Urban Politics. 3 Hours.
Structures of urban governments, focusing on intergovernmental
relations, official decision makers, and group and electoral politics in
metropolitan environments. (AG/PT).

PSC 170. Contemporary Political Issues. 1-3 Hour.
Selected topics of current political importance and interest. Interests
identified in current schedule of classes. May be repeated with
permission of department chair.

PSC 221. American State and Local Government. 3 Hours.
Institutions, functions, and political processes at state and local levels of
American government. (AG/PT).

PSC 222. Introduction to Public Administration. 3 Hours.
Principles and practices of governmental administration, including
organization, procedures, personnel management, budgeting, and
control. (AG/PT).

PSC 240. Social and Political Philosophy. 3 Hours.
Contemporary debate concerning fundamental principles of political life.
Justification of political authority, proper role of government in society,
economic justice, freedom and rights, and free enterprise system. (AG/
PT).

PSC 260. American Foreign Policy. 3 Hours.
Creation and conduct of U.S. foreign policy. Evolution of American role
in world affairs; problems, trends, and developments since World War II.
(CP/IR).

PSC 266. The United Nations. 3 Hours.
Organization framework, evolving experiences and continuing problems
of United Nations system for maintenance of international peace and
security and for international economic and social cooperation. (IR/CP).

PSC 270. Political Power in American Film. 3 Hours.
Concept of political power in American society and its expression in
American film. (AG/PT).

PSC 271. Contemporary Political Issues. 3 Hours.
Issues of current interest in political science.

PSC 272. Model Arab League. 1 Hour.
Preparation for participation in Model Arab League simulations around
the country. Individual research on the Arab League and cooperative
efforts to represent an assigned country and it's foreign policy on
committees, such as political affairs, economics, social affairs, and
others.

PSC 295. Special Topics in Political Science. 3 Hours.
Selected topics in Political Science.

PSC 316. Gays, Lesbians and the politics of Sexual Diversity. 3
Hours.
Examination of lesbian, gay, bisexual, and transgender politics in the US
since the mid-twentieth century focusing on the regulation of sexuality
and gender, the liberation and assimilationist approaches to political
action, and contemporary issues, including discrimination in employment,
in the military, and in education, domestic partnerships, HIV/AIDS, and
family law. (AG/PT).

PSC 317. Religion and Politics. 3 Hours.
This course investigates the relationship between religion and the
American political community. Topics examined will include: the influence
of religion on Early Settlement thought; the role of religion in shaping the
1st Amendment; the political evolution of Christian, Jewish and Islamic
sects in the US; the court and the issue of "church and state"; religion and
political activism; faith-based organizations and the implementation of
public policy. (AG/PT).
PSC 318. Politics and Race in America. 3 Hours.
Black politics in the United States at the national, state, and local levels of government. Introduces students to the nature of black political behavior. Topics examined will include black political philosophy, blacks and the Supreme Court, congress and the president, black leadership, black organizations, black electoral behavior, black public opinion, and public policy. This course is taught with an emphasis on Blacks who are descendants of slaves. (AG/PT).

PSC 319. Civil Liberties and Civil Rights. 3 Hours.
This course examines the role of the Supreme Court in defining the fundamental rights and liberties of citizens in the United States. We analyze the inherent tension in supporting individual rights when they conflict with the will of the democratic majority.

PSC 320. Political Participation. 3 Hours.
This course focuses on individual level public opinion, voting behavior, and all forms of participation in American national politics. It explores the causes and consequences of individual participation in campaigns and elections, parties and interest groups. Ethics and Civic Responsibility are significant components of this course (QEP). (AG/PT).

Prerequisites: PSC 101 [Min Grade: D]

PSC 321. Public Opinion in American Politics. 3 Hours.
Public opinion and the factors that shape it including the media, socialization, and group are covered in this course. It also includes a focus on its influence in elections and policy and the measurement of public opinion. (AG/PT).

PSC 322. Women and Politics. 3 Hours.
This course analyzes the history, theory and public policy of women as U.S. citizens from the colonial era through suffrage toward a woman in the White House. We examine the struggle for political rights, educational opportunity and economic equality, and gender roles in the family. We evaluate poll date, public policy debates, electoral strategies and leadership styles for women candidates for local, state, and federal office. (AG/PT).

PSC 330. The American Judicial Process. 3 Hours.
This course examines the purpose and structure of American courts; the selection of judges; the role of juries; how federal courts set agendas, decide cases, and impact legal policy; the role of interest groups and public opinion on judicial behavior. This course is writing-intensive; students will produce a central research project that asks and answers an empirical question about the judicial system, broadly described. Writing is a significant component of this course (QEP).

PSC 331. The U.S. Congress. 3 Hours.
This course in an in-depth analysis of the U.S. Congress and the policy process in Congress. The roles of the president, the court, interest groups, and political parties in the legislative process are also addressed. (AG/PT).

Prerequisites: PSC 101 [Min Grade: D]

PSC 332. The American Presidency. 3 Hours.
Presidential leadership and democratic order; legal foundations of presidential authority; popular influences and presidential politics; democracy and presidential leadership today. (AG/PT).

PSC 333. Political Parties and Interest Groups. 3 Hours.
This course covers engagement and governing in American politics through the institutions of participation - political parties and interest groups. Topics include parties and political organizations in their varied forms - trade associations, membership groups, social movements and others, and the role of these organizations shaping outcomes. (AG/PT).

PSC 340. American Political Thought. 3 Hours.
This course focuses on the origins and evolution of American political theory from the colonial period to post-modernity. Investigates the philosophical legacy of the American founding and the civic republican tradition on contemporary theories of liberty, equality, and civic engagement in public life. Ethics and Civic Responsibility are significant components of this course (QEP). (AG/PT).

PSC 341. Classical Political Thought. 3 Hours.
This course analyzes the development of Western political thought in classical period from Plato to Augustine. We trace the emergence of democratic government and the political culture of the polis as represented by the philosophers and playwrights of the ancient world from Athens to Rome, (AG/PT).

PSC 342. Modern Political Theory. 3 Hours.
This course surveys the development of Western political thought from early modern era to contemporary debates from Machiavelli to King. We examine the innovation of social contract theories and the revolutionar orgins of modern democracies as we analyze philosophical arguments for individual consent, political authority, personal liberty, and legitimate government. (AP/PT).

PSC 350. African Politics. 3 Hours.
Following the African tradition of communication of political philosophies through narrative, our study of African politics will incorporate storytelling (in film, fiction, and poetry) as well as more standard methods of political analysis. The course addresses social, economic, and political dimensions of Africa - Northern, Southern, and Sub-Saharan - from pre-colonial era to the present. We will also examine Africa's regional and international relations today. (CP/IR).

PSC 351. European Political Systems. 3 Hours.
Comparative analysis of politics in European nations. (CP/IR).

PSC 352. Latin/South American Political Systems. 3 Hours.
Comparative analysis of politics in Latin and South American Societies. (CP/IR).

PSC 353. Asian Political Systems. 3 Hours.
This course provides an overview of the relationships between state and society in contemporary Asia, with particular emphasis on India, Pakistan, China and Japan. Also included are a presentation of Pan-Asian relation, environmental problems, current armed conflicts and political culture. (CP/IR).

PSC 354. East European Politics. 3 Hours.
Analysis of East European domestic and foreign policies and politics. (CP).

PSC 355. Politics of Development. 3 Hours.
Analysis of social, economic and political problems confronting the world’s poor countries. Topics examined include national responses to the following problems: child soldiers and child labor; government corruption and transparency; ethnic conflict; environment destruction; social inequality; globalization; and cultural preservation. (CP/IR).

PSC 360. International Security. 3 Hours.
Analysis of arms race, process of arms control negotiations, and diffusion of nuclear weapons. (IR/CP).

Prerequisites: PSC 103 [Min Grade: D]

PSC 361. North/South International Relations. 3 Hours.
Relations between advanced industrial countries and underdeveloped countries, focusing on changing dynamics of these relations. (IR/CP).

Prerequisites: PSC 103 [Min Grade: D]
PSC 362. Diplomacy. 3 Hours.
Origins, institutions, functions and rules of modern diplomatic and consular practice and roles of diplomacy as instrument of national policy. (IR/CP).

PSC 363. Nationalism in World Politics. 3 Hours.
The primary objective of this course is to examine the political basis and implications of nationalism, as an idea and a political movement, in world politics. (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 370. Politics and the Media. 3 Hours.
This course covers how significant changes in communications media have affected our ability to address our political problems and make public policy. It covers the interactive relationship between real world politics and communications media, where and how we learn about candidates, elected and appointed officials, and policy issues.
Prerequisites: PSC 101 [Min Grade: D]

PSC 380. The Politics of Constitutional Law. 3 Hours.
Decisions of the U.S. Supreme Court as related to the development of important doctrines of constitutional law. Role of judiciary; extent of federal executive and legislative power; federal taxing and commerce powers. (AG/PT).
Prerequisites: PSC 101 [Min Grade: C]

PSC 381. American Constitutional Law I. 3 Hours.
Decisions of the U.S. Supreme Court as related to the development of important doctrines of constitutional law. Guarantees of Bill of Rights regarding both national and state governments; 14th Amendment. (AG/PT).
Prerequisites: PSC 101 [Min Grade: C]

PSC 382. Political Networks. 3 Hours.
The course explores the impact of social networks on political attitudes, political behavior, and policy outcomes in domestic and international politics.

PSC 385. Special Topics in Political Science. 3 Hours.
Special topics in political science.

PSC 400. Research in Political Science. 3 Hours.
This course covers strategies to develop and answer research questions in Political Science, with emphasis on research design, data generation techniques, and on descriptive and inferential statistical analysis. The course fulfills QEP requirements in Quantitative Literacy and Writing.
Prerequisites: PSC 101 [Min Grade: D]

PSC 401. Seminar in American Government. 3 Hours.
There are multiple theoretical approaches employed in the study of American political culture, behavior, institutions, and policy making. This course covers those approaches and the significant literature on the central topics in American government and politics (AG/PT).
Prerequisites: PSC 101 [Min Grade: D]

PSC 402. Seminar in Comparative Politics. 3 Hours.
Multiple theoretical approaches employed in study of international relations and their usefulness in cross-national analysis of political systems. (CP/IR).
Prerequisites: PSC 102 [Min Grade: D]

PSC 403. Seminar in International Relations. 3 Hours.
The course covers multiple theoretical approaches employed in study of International Relations and their usefulness in investigating issues in world politics. Quantitative Literacy is a significant component of this course.
Prerequisites: PSC 103 [Min Grade: D]

PSC 404. Seminar in Political Theory. 3 Hours.
Multiple approaches employed in study of political theory and their usefulness in forming normative judgements. (PT/AG).
Prerequisites: PSC 104 [Min Grade: A]

PSC 430. American Constitutional Law II. 3 Hours.
Decisions of the U.S. Supreme Court as related to the development of important doctrines of constitutional law. Role of judiciary; extent of federal executive and legislative power; federal taxing and commerce powers. (AG/PT).
Prerequisites: PSC 101 [Min Grade: D]

PSC 460. International Political Economy. 3 Hours.
Increasing interaction of politics and economics in international and transnational arenas of current global system. Quantitative Literacy is a significant component of this course (QEP). (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 465. International Law. 3 Hours.
Historical roots, theoretical foundations, and substantive development of law governing relations among nations; functioning of present international legal system. (IR/CP).

PSC 466. The United Nations. 3 Hours.
Organizational framework, evolving experiences and continuing problems of United Nations system for maintenance of international peace and security and for international economic and social cooperation. (IR/CP).

PSC 471. Contemporary Political Issues. 3 Hours.
Analyzing and writing in depth about the ethics and rationale for using and abusing the film medium to relate to, undermine, or support political authority. Ethics and Civic Responsibility and Writing are significant components of this course (QEP).

PSC 495. Directed Research in Political Science. 1-6 Hour.
Directed research in political science with department faculty. Open to Political Science majors only. Requires instructor approval.

PSC 496. Independent Studies and Special Projects. 1-3 Hour.
Directed reading under supervision of member of PSC faculty.

PSC 497. Honors Research in Political Science. 3-6 Hours.
Directed research by Political Science Honors student.
Prerequisites: PSC 401 [Min Grade: A] or PSC 402 [Min Grade: A] or PSC 403 [Min Grade: A] or PSC 404 [Min Grade: A]

PSC 498. Public Affairs Internship. 1-3 Hour.
Individually arranged assignment in public or non-profit agencies or organizations, monitored and evaluated by member of department.

PT-Physical Therapy Courses
PTC-Hlth-Focused Pat/Client Mg Courses
PTDE-Adv Ed Theory Practice Courses
PTDE-Physical Therapy DSC Courses
PTGR-Postprofessional Gen Grad Courses
PUH-Public Health Courses

PUH 101. Prepare, Promote, and Prevent. 1 Hour.
This First Year Experience (FYE) course is for students majoring in or interested in Public Health. It is designed to introduce freshmen to the tools and techniques that will enhance their transition to college and improve their academic success. Goal setting, time management, faculty/peer interaction, and other relevant academic skills will be addressed. Students will also gain an understanding of the various educational opportunities and career options associated with Public Health.

This course explores the richness of public health through its disciplines and its stories to demonstrate how the understanding of the origins of epidemics determines the progress of civilization.

PUH 202. Introduction to Global Health. 3 Hours.
This course is designed to introduce students to the topic of global health and impart a basic understanding of its interdisciplinary nature, successes to date, and current challenges in the field. The first part of the course provides a basic framework for understanding global public health issues and improvement of health at a population level by exposing students to basic public health concepts of disease burden, standard indices for measuring population-based health, and highlighting global epidemiologic trends. Progress towards the Millennium Development Goals will be a focus of discussion. The second section of the course will discuss vulnerable populations and how their specific needs are prioritized and addressed. Third, the class will examine strategies for organization and delivery of health care services at a population level and examine health as a human right. Finally, the course will look at the key institutions and organizations working in tandem with health ministries to address global health and the need for major collaborative initiatives to address health disparities worldwide.

PUH 204. Health Meets Life: Sex, Drugs, Weight, and other Health Behaviors. 3 Hours.
This course will be structured around lectures, in-class activities, and discussions of lecture, readings, and current events. The successful student will engage in active listening and critical thinking of the topics presented. Students will be evaluated by class participation, projects, and exams.

PUH 210. Biological Basis of Public Health. 3 Hours.
This course will consist of lectures and in-class active-learning activities centered on deepening the students’ understanding of the fundamental biological concepts with an emphasis on significant public health problems. Each major system will be presented first as normal physiology, then, how genetics and/or specific exposures (voluntary and involuntary) contribute to diseases of public health significance. Examples may include genetics/genomics with cancer and disease susceptibility; the immune system and infectious diseases; respiratory system with asthma; the nervous system with pesticide exposure; the reproductive system, STIs and reduced fertility; and, fetal development with drug addiction. The relevance for the biological basis of public health will be underscored through a major assignment in which the student will research a current issue in public health, thoroughly explain the biological basis of the condition, identify factors (genetic and non-genetic) that may contribute to the problem, and finally propose interventions (behavior choices, genetic counseling, policy, avoiding or limiting exposures, etc.) that could lead to improvements in public health.

Prerequisites: (BY 101 [Min Grade: C] and BY 102 [Min Grade: C]) or BY 123 [Min Grade: C]

PUH 250. Biostatistics. 3 Hours.
Students will gain a thorough understanding of basic analysis methods, elementary concepts, statistical models and applications of probability, commonly used sampling distributions, parametric and nonparametric one and two sample tests, confidence intervals, applications of analysis of two-way contingency table data, simple linear regression, and simple analysis of variance.

Prerequisites: MA 102 [Min Grade: C] or MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C]

PUH 300. Environmental Factors in Public Health. 3 Hours.
This didactic lecture course open to students from all majors will survey current issues and challenges in our global and local environmental and how those impact our health. It will examine the sources, exposure routes, regulation and health outcomes associated with biological, chemical, and physical agents in the environment, both naturally occurring and man-made. We will examine these agents and how they impact air, water and food quality to cause disease. Regulatory agencies, risk assessment and disaster response and preparedness will be discussed.

The intellectual tools of public health describe diseases from cholera and pandemic avian influenza to obesity and diabetes that threaten the integrity of organized societies. This course explores the richness of public health through its disciplines and its stories to demonstrate how the understanding of the origins of epidemics determines the progress of civilizations.

PUH 302. Epid: Beyond the Outbreak. 3 Hours.
The course will provide students with a basic understanding of epidemiology history, methods, and practice. The history of epidemiology will focus on major historical events such as John Snow and the 1854 Broad Street cholera outbreak. The course will also cover basic epidemiologic methods such measures of disease occurrence (e.g., prevalence and incidence) as well as basic study designs such as case-control and cohort studies. During the term, students will utilize actual epidemiologic investigations in order to learn how these methods are put into practice. The coursework will focus mostly on discussion for the first part of the course focused on the history of epidemiology. The section on methods will primarily be problem-based, performing basic analysis of epidemiologic data through calculation of prevalence/incidence and measures of association (e.g., prevalence ratio, incidence rate ratio). This work will lead to students to prepare a document on how they would respond to an outbreak in a situation described by the course master. The entire coursework will take place in a lecture format, with the class meeting twice a week.

PUH 303. Introduction to Global Health. 3 Hours.
This course is designed to provide students with an appreciation of the interdisciplinary nature of global health, its history, successes to date, and current challenges. Students will be introduced to basic concepts of health disparities, major causes of morbidity and mortality worldwide, and determinants of health. Students will be introduced to challenges of health care organization and delivery and will discuss health as a human right. Finally students will discuss key ‘players’ in global health and how partnerships are essential for addressing health needs worldwide. Lectures, discussion, and case studies will be integral teaching elements of the course.
PUH 306. Information Literacy and Communication in Public Health. 3 Hours.
This course introduces students to the knowledge and skills necessary to communicate effectively public health concepts and interventions in an audience-appropriate fashion while addressing possible cultural, language, and educational barriers.

PUH 307. Public Health Systems. 3 Hours.
This course provides a comprehensive overview of public health systems in the United States. A public health system is comprised of an array of entities whose unifying mission is to promote health and well-being at the population level. The course will examine the contributions of federal agencies (Centers for Disease Control, Department of Health and Human Services), state/county/city level health departments, and public and private health care providers (hospitals, long-term care facilities, physicians and nurses) to population health.

PUH 309. Health Disparities in Diverse Populations. 3 Hours.
This course discusses health disparities across culture, gender, race, socio-economic status, and geography as well as their influence on policy creation, management, and practice including ethical concerns. Students will also discuss the fundamental right to health and human services.

PUH 405. Managing Public Health Programs. 3 Hours.
This course will consist of lectures and case discussions of management in a public health context. Management involves planning, organizing, directing, and controlling resources to achieve an organizational mission. Following a series of lectures, students will prepare an analysis of an assigned case and present the analysis to the class. Each case analysis presentation will be evaluated by other students and the evaluation presented at a subsequence class meeting. A comprehensive final examination will be administered.

PUH 493. Public Health Service Learning. 3 Hours.
In this course students will undergo a series of service opportunities in public health settings. These opportunities will allow students to develop an appreciation of public health practice and research. Course must be taken concurrent with Public Health Capstone Experience in the semester before graduation.
Prerequisites: PUH 495 [Min Grade: C](Can be taken Concurrently)

PUH 495. PUH Capstone Experience. 3 Hours.
This course provides students with the opportunity to synthesize information from the various courses and experiences. Students will report on their service learning experience to discuss issues and report activities. Students will present a final report on their experience and how they applied their coursework. Course must be taken concurrent with Public Health Service Learning in the semester before graduation.
Prerequisites: PUH 493 [Min Grade: C](Can be taken Concurrently)

PUH 498. Special Topics in Public Health. 1-6 Hour.
This special topics course will be used in the undergraduate program to cover emerging issues or specialized content not represented in the main curriculum.

PY-Psychology Courses

PY 101. Introduction to Psychology. 3 Hours.
Application of scientific method to behavior. Areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences (Satisfies Core Area IV Requirement).

PY 107. Psychology of Adjustment. 3 Hours.
Adaptive behavior; theories, research, and personal applications relevant to desirable behavior patterns; interpersonal skills and self-control techniques.

PY 108. Human Sexuality. 3 Hours.
Biological and psychological bases of human sexual behavior. Genetic, hormonal, and learning foundations for development of sexual and sex-related structures and of psychosexual identity and behavior. Adult sexual structures and behavior, conception control, pregnancy, lactation and parentalism, drugs and reproduction, and sexual pathology and variances.

PY 109. Drugs and Human Behavior. 3 Hours.
Historical and cultural perspectives on drug use by humans. Major classes of drugs; effects, side effects, and toxicity. Mechanisms of drug action, drug abuse, government regulations, and use of psychoactive drugs in treatment of mental disorders.

PY 125. Introduction to Forensic Psychology. 3 Hours.
Overview of issues involving the intersection of law and psychology. Focus on role of clinical assessment of competency, scientific jury selection, expert witnesses in court, punishment and sentencing, and related issues.

PY 201. Honors Introduction to Psychology. 3 Hours.
Advanced seminar in scientific study of behavior and cognitive processes. (Satisfies Core IV requirement.) Permission of Director of Undergraduate Studies required.

PY 212. Developmental Psychology. 3 Hours.
Human development from prenatal period to old age. Genetic and environmental determinants of behavior. Language, cognition, personality, social and emotional behavior, intelligence, and physical and sexual development. Applied areas include child rearing, childhood psychoses, and child abuse. This course fulfills the QEP requirements in Ethics and Civil Responsibility (ECR) Prerequisite: PY 101.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 213. Cross-Cultural Perspective on Child Development. 3 Hours.
Cultural differences in determinants of child development. Effects of culturally distinct approaches to child rearing and education on infant attachment, temperament, aggression, cognitive development, peer interaction, sex-role socialization, and moral reasoning.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 215. Research Literacy in Psychology. 2 Hours.
This course provides an overview of the scientific process and teaches students to read and evaluate scientific reports: popular media to primary literature; emphasizing the importance of being a good consumer of information. The course also teaches students to write scientifically, following accepted formats such as APA.

PY 216. Elementary Statistical Methods. 4 Hours.
Descriptive and inferential statistics with emphasis on behavioral science applications. Measures of central tendency and variability, frequency distributions, probability, t-test, correlation, analysis of variance, and regression. Use of computers in statistical analysis of psychological research data. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 105 [Min Grade: C] or MA 110 [Min Grade: C] or MA 102 [Min Grade: C] or MA 125 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C]
PY 218. Abnormal Psychology. 3 Hours.
Research-oriented study of different types of maladaptive behavior, including symptoms, development, classification, and treatment. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 220. Contemporary Issues in Psychology. 3 Hours.
Issues of current interest in psychology.
Prerequisites: PY 101 [Min Grade: D]

PY 222. Honors Developmental Psychology. 3 Hours.
Advanced seminar in human development from prenatal period to old age. Genetic and environmental determinants of behavior. Language, cognition, personality, social and emotional behavior, intelligence, and physical and sexual development.

PY 228. Honors Abnormal Psychology. 3 Hours.
Advanced seminar in research-oriented study of different types of maladaptive behavior, including symptoms, development, classification, and treatment.

PY 240. Psychology of Social Inequality. 3 Hours.
The gap in income between the rich and the poor has been growing steadily larger in the United States for over 30 years. Psychological science has produced some surprising insights about the causes and effects of this contentious trend. Among topics that will be tackled are how poverty affects decision making, wealth changes how people treat others, and racial discrimination affects responses to stress.
Prerequisites: PY 101 [Min Grade: D]

PY 253. Brain, Mind and Behavior. 3 Hours.
How brain functions during dreaming, visual perception, aggression, learning and memory, sex, and language. Left versus right hemisphere specializations, recovery after brain damage, and neurological basis of illnesses such as schizophrenia, autism, and Parkinson’s disease. Includes five hours of videos. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 302. History and Systems of Psychology. 3 Hours.
Historical origins and development of major approaches to psychology.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 303. Introduction to Cognitive Science. 3 Hours.
Introduction to the exciting new discipline of cognitive science, the interdisciplinary study of mind and intelligence. This course draws on a number of disciplines involved in unraveling the mysteries of the mind and intelligent life.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 305. Medical Psychology. 3 Hours.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 312. Advanced Developmental Psychology. 3 Hours.
Current research and theory in childhood and adolescence with focus on perceptual/cognitive and social/emotional issues. Relationship between spoken language development and learning to read, linguistic development in special populations (e.g., hearing-impaired children), applications of memory research to children’s courtroom testimony, impact of preschool experience (e.g., Head Start) on academic achievement, and family and peer influence on cognitive and social development.
Prerequisites: PY 212 [Min Grade: D]

PY 313. Introduction to Language Development. 3 Hours.
Children’s acquisition of the ability to speak and understand their native language. Learning to read and write. Language abilities in special populations (e.g., the hearing-impaired, mentally-retarded, elderly individuals). Communication abilities in nonhumans.
Prerequisites: PY 212 [Min Grade: D]

PY 315. Methods in Psychological Research. 4 Hours.
This course provides an overview of scientific methods used to investigate psychological phenomena, including correlational methods, quasi-experimental methods, and experimental methods. It considers issues related to problem definition, hypothesis formation, measurement, causal inference, validity, and reliability and includes a strong emphasis on writing, quantitative analysis and questions of ethics and civic responsibility. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: PY 215 [Min Grade: C] and PY 216 [Min Grade: C] or (PY 214 [Min Grade: C] and PY 217 [Min Grade: C])

PY 316. Research Methods in Psychology. 3 Hours.
Overview of specific research methods such as correlational, quasi-experimental, and experimental methods. Students will design and conduct research. As such it includes a strong emphasis on quantitative analysis and questions of ethics and civic responsibility. This course also provides practical knowledge of the scientific methodology such as problem definition, hypothesis formation, measurement, causal inference, validity, and reliability. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: PY 215 [Min Grade: C](Can be taken Concurrently)

PY 319. Psychopathology and Culture. 3 Hours.
Cultural differences with respect to types of behavior viewed as abnormal and how such behaviors are classified and treated.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 320. Contemporary Issues in Psychology. 3 Hours.
Issues of current interest in psychology.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 325. Clinical Child Psychology. 3 Hours.
Diagnosis, prevention and treatment of psychological problems in children and adolescents. Interview techniques, behavioral and cognitive interventions, and community prevention programs. Developmental considerations emphasized.
Prerequisites: PY 218 [Min Grade: D]

PY 326. Industrial/Organizational Psychology. 3 Hours.
Psychological methods applied to people at work. Selection, placement, performance appraisal, training, attitude measurement, work motivation, leadership, industrial safety, and human performance.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 330. Sport Psychology. 3 Hours.
Psychological factors in athletic performance. Psychological characteristics of successful athletes; anxiety, arousal, motivation, attention, concentration, attribution, cognition, and imagery.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 335. Motivation and Emotion. 3 Hours.
Psychobiological basis of eating, drinking, sleep, sex, aggression, emotions, and social motivation. Underlying mechanisms involved in these motivated behaviors from basic biological need (homeostasis) to abnormal conditions as occurs in eating, sleep disorders, genetic anomalies, drug addiction, and criminal violence.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: C]
PY 350. Personality and Intellectual Assessment. 3 Hours.
Measurement of personality and other psychological characteristics through psychological tests. Selection, administration, and interpretation of psychological tests.
Prerequisites: PY 214 [Min Grade: C]

PY 353. Behavioral Neuroscience. 3 Hours.
Neurobiological basis of behavior. Central nervous system mechanisms that mediate processes such as learning, motivation, sensation, speech, and emotional behavior.
Prerequisites: PY 253 [Min Grade: D]

PY 354. Autism: Brain and Cognition. 3 Hours.
Autism is a disorder that affects every facet of human functioning. Its multidimensional manifestation is enigmatic to researchers as well as to affected families. This course will examine the scientific research that has illuminated the nature of autism, focusing on its cognitive and biological aspects. We will examine different perspectives of thinking and various biological underpinnings of brain function, to converge on the most recent scientific consensus on the biological and psychological characterization of autism. There will be a special focus on structural and functional brain imaging studies of autism.
Prerequisites: (PY 101 [Min Grade: D] or PY 201 [Min Grade: D]) and PY 253 [Min Grade: D]

PY 355. Introduction to Neuroscience. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize the development, anatomy, cellular and molecular biology and biochemistry of neurons and glial cells, and introduce electrochemical, biophysical and chemical signaling within and across neurons.
Prerequisites: PY 253 [Min Grade: D] and BY 123 [Min Grade: D] and CH 115 [Min Grade: D]

PY 356. Introduction to Neuroscience II. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize mechanisms of synaptic transmission, sensory systems, neuropharmacology, and synaptic plasticity; and introduce the molecular basis of diseases and disorders of the central and peripheral nervous systems.
Prerequisites: PY 355 [Min Grade: C] or NBL 355 [Min Grade: C]

PY 361. Psychology of Learning. 3 Hours.
Issues of learning in terms of current theoretical positions. Classical conditioning, instrumental conditioning, forgetting, role of motivation, and transfer of training.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 363. Cognitive Psychology. 3 Hours.
Human cognitive functioning. Selective attention, information processing, models of learning, memory, perception, and free and structured thought processes.
Prerequisites: PY 253 [Min Grade: D]

PY 370. Personality. 3 Hours.
Comparison of major theories of personality, including philosophy of human nature; structure, dynamics, and development of personality.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 372. Social Psychology. 3 Hours.
Major theories and research in social psychology. Social perception and attribution, behavior in interpersonal relationships, and group influences on individual behavior.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 375. Philosophy of Mind. 3 Hours.
Mind; its nature, forms, and functions. Consciousness, self-consciousness, action, belief, desire, rationality, personal identity; problems such as mind-body, psychological explanation, and freedom of will. Prerequisite: one previous PHL course or permission of instructor.

PY 376. Psychology and Law. 3 Hours.
Interaction between theories and applications of psychology and practice of civil and criminal law. Insanity, malpractice, competency, civil commitment, violence, jury selection, and expert-witness testimony.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 380. Perception. 3 Hours.
Contemporary theory and empirical research in sensory coding of perceptual information. Sensory transduction, physiology and anatomy of sensory systems, and psychophysical measurement techniques. Visual perception, hearing and speech, smell, and taste.
Prerequisites: PY 253 [Min Grade: D]

PY 390. Animal Behavior. 3 Hours.
The foundation of animal behavior as it relates to the study of psychology and evolutionary psychology. Reproductive and survival strategies, communication, learning, cognition, orientation navigation/homing, behavioral genetics, and evolution.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 396. Teaching Practicum in Psychology. 1-3 Hour.
Teaching experience in psychology courses, supervised by a faculty member. Student must have previously taken the course for which the student will work within. Permission of Director of Undergraduate Studies required. Pass/Fail.

PY 397. Community-Based Practicum in Psychology. 1-6 Hour.
Community work in various supervised settings such as Crisis Center, Department of Human Resources, etc. Permission of Director of Undergraduate Studies required. (Pass/Fail) Ethics and Civic Responsibility are significant components of this course (QEP).

PY 398. Research Practicum in Psychology. 1-6 Hour.
Project or research activity supervised by faculty. Cannot be taken Pass/ Fail. Permission of Director of Undergraduate Studies required.

PY 399. Psychology Honors Seminar. 1 Hour.
Focus on preparation for graduate/professional school and conducting psychological research, including presentation of research and discussion of relevant issues in statistical analysis, research methods, and ethics. Prerequisites: Admission into the Psychology Honors Program and Elementary Statistical Methods (may be concurrent enrollment).
Prerequisites: PY 216 [Min Grade: C](Can be taken Concurrently)

PY 401. Neuroscience Seminar. 1 Hour.
Neuroscience faculty from the School of Medicine and Psychology present current research and discuss strategies for career development in medicine and research. Group discussion follows research presentation. Prerequisites: Neuroscience majors, or PY 353, or permission of instructor.
Prerequisites: PY 253 [Min Grade: D]

PY 405. Biofeedback, Meditation, and Self-Regulation. 3 Hours.
History and current applications of biofeedback, meditation, and relaxation techniques.
Prerequisites: PY 315 [Min Grade: D]

PY 411. Cognitive Development. 3 Hours.
Development of and changes in memory, perception, learning, and thinking throughout the lifespan.
Prerequisites: PY 212 [Min Grade: D] and PY 315 [Min Grade: D]
PY 412. Social Development. 3 Hours.
Contemporary theoretical models and empirical research in social development. Attachment formation in infancy, parent-child and family interactions, peer relationships, moral and pro-social development, aggression, and sex role development.
Prerequisites: PY 212 [Min Grade: D] and PY 315 [Min Grade: D]

PY 413. Psychology of the African American Child. 3 Hours.
Psychological development of African American children from birth through adolescence. Prenatal influences on growth and development, cognitive development, practices of African American families, Black English and language development, psychological testing, self-concept, racial identification, and motivation and academic achievement.
Prerequisites: PY 212 [Min Grade: D] and PY 315 [Min Grade: D]

PY 415. Intellectual and Developmental Disabilities. 3 Hours.
History, causes, treatment/education, behavioral interventions, and family issues related to Intellectual and Developmental Disabilities and other developmental disabilities. Psychologist as member of interdisciplinary treatment team.
Prerequisites: PY 212 [Min Grade: D] and PY 315 [Min Grade: D]

PY 418. Psychotherapy and Behavior Change. 3 Hours.
Different therapeutic approaches and issues relating to their effectiveness. Principles of behavior modification.
Prerequisites: PY 218 [Min Grade: D] and PY 315 [Min Grade: D]

PY 420. Special Topics in Psychology. 3 Hours.
Issues of current interest in psychology.
Prerequisites: PY 315 [Min Grade: D]

PY 423. Abnormal Child Development. 3 Hours.
Current research and theories related to aberrations of normal development processes, including autism, childhood schizophrenia, and other disorders of childhood.
Prerequisites: PY 218 [Min Grade: D] and PY 315 [Min Grade: D]

PY 425. Psychology of Aging. 3 Hours.
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in cognitive function, behavior, sensation/perception, health, and personality, as well as dementia and other forms of psychopathology. (Also offered under Gerontology.).
Prerequisites: PY 212 [Min Grade: D] and PY 315 [Min Grade: D]

PY 431. The Dynamics of Pain. 3 Hours.
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 433. Diseases of the Nervous System. 3 Hours.
Molecular mechanisms and treatments for neurological, psychiatric, and injury based disorders and diseases of the nervous system. Topics include neurodevelopmental disorders (including intellectual disability and autism spectrum disorders), neurological disorders (including neurodegenerative and demyelinating diseases), neuropsychiatric disorders (including depression disorders and schizophrenia), and injury to the nervous system (including stroke and traumatic brain and spinal cord injury).
Prerequisites: PY 353 [Min Grade: B] or PY 355 [Min Grade: C] or PY 356 [Min Grade: C]

PY 441. Principle Cell Neuroscience Module I. 2 Hours.
Module I: Molecules, genes and cell biology of the nervous system. The first module will cover the biochemistry, molecular and cellular biology of neurons and glial cells. Topics on biochemistry and molecular biology will include protein, lipid, carbohydrate and nucleic acid biosynthesis and structure. Next, the cell biology of neurons and glial cells will be introduced, including protein and membrane transport pathways, energy metabolism, protein turnover and gene regulation. Introductory basic concepts of nervous system development will be covered, including the differentiation of neurons and glial cells and the anatomical plan of the brain and spinal cord. This developmental neurobiology concepts are intended to be an introduction to a later graduate-level course taught in the second year (Developmental Neurobiology, Keyser).
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 442. Principle Cell Neuroscience Module II. 2 Hours.
Module II: Membrane biophysics and synaptic transmission The second module will introduce basic concepts of membrane biophysics, as well as the electrical and chemical signaling within and across neurons. Topics will include the resting membrane potential, passive and active propagation of electrical signals, active electrogenic properties of dendrites and axons, structure and function of voltage-gated and ligand-gated ion channels, and mechanisms of action potential conduction. The molecular and cellular mechanisms of synaptic transmission, the transfer of information between neurons, will then be covered in detail. Topics will include mechanisms of synaptic vesicle synthesis and their filling with neurotransmitters, their storage, exocytosis, endocytosis and recycling, the role of neurotransmitter transporters in clearance and termination of neurotransmitter actions, postsynaptic receptors and signal transduction pathways, as well as the dynamic changes in synaptic structure and function. Fundamental basic concepts of neurotransmitter receptor pharmacology will also be presented as the bases for understanding neuropharmacology, the effect of drugs on nerve cell function.
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 443. Principle Cell Neuroscience Module III. 2 Hours.
Module III: Synaptic integration, synaptic plasticity and basic neuronal circuitry The third module will focus on the modulation and integration of all the synaptic inputs arriving on neurons. Topics will include temporal and spatial summation of synaptic inputs, metabotropic and neurotrophic factor receptors and their signal transduction mechanisms through second-messenger systems, as well as long-and short-term synaptic plasticity, including LTP and LTD as current cellular models of learning and memory. The neurochemical bases of neurological and psychiatric disorders will also be covered. Finally, sensory transduction and motor control systems will be covered as an introduction to a later graduate-level course taught in the second year (Integrative Neuroscience, Gamlin).
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 444. Principle Cell Neuroscience Module IV. 1 Hour.
Module IV: Discussion of classical and contemporary research articles This class will use a journal club format to dissect and discuss primary research literature on topics that parallel the material taught in lectures. Research articles will include groundbreaking seminal papers (“classical”) and modern, state-of-the-art experimental approaches in Neuroscience (“contemporary”).
PY 453. Advanced Behavioral Neuroscience. 4 Hours.
Neural systems which control behavior will be studied, incorporating knowledge gained from neurobiological and psychological research. Topics will include synaptic communication, sensation and perception, movement, genetic influences on behavior, motivation, emotions, psychopathology, brain plasticity, and an extended module on learning.
Prerequisites: PY 353 [Min Grade: D] or PY 355 [Min Grade: D] or PY 363 [Min Grade: D]

PY 455. Psychology of Eating Disorders and Obesity. 3 Hours.
The history, epidemiology, genetic, environmental, and behavioral correlates and prevention and treatment strategies of eating disorders and obesity. Includes mechanisms of normal feeding and weight control and general research methods used to understand psychiatric disorders.
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D] and (PY 355 [Min Grade: D] or PY 353 [Min Grade: D] or PY 335 [Min Grade: D])

PY 457. Human Psychophysiology. 3 Hours.
Physiology, instrumentation, and methodology of psychophysiological measurements, including autonomic and central nervous systems. Consideration of basic and applied research.
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 460. Advanced Neuroscience: From Molecules to Mind. 3 Hours.
Builds on foundation set in PY 355. Provides in-depth understanding of nervous system functions at molecular, cellular, biophysical, and circuit level. Includes developmental, cognitive, systems and clinical neuroscience.
Prerequisites: PY 355 [Min Grade: C]

PY 463. Cognitive Neuroscience. 3 Hours.
Interdisciplinary study of higher-order cognitive functions in humans. Data from functional brain imaging, neurology, neuroanatomy, and neurophysiology used in study of human perception, language, learning, and memory.
Prerequisites: PY 353 [Min Grade: D] or PY 355 [Min Grade: D] or PY 363 [Min Grade: D]

PY 465. Behavioral Neuroscience Measurements, Methods & Models. 3 Hours.
Data Methods. Measurements & Models. This course is about data: how to obtain it (electronics and basic programming), understanding the processes that generate data (probability and basic statistics), and how to model data using Simulink and Matlab Curve Fitting.
Prerequisites: PY 253 [Min Grade: C]

PY 468. Cognitive Neuroimaging. 3 Hours.
This course will focus on examining the neural bases of higher cognitive and social functions. We will discuss the basics of functional MRI and will study scientific papers in neuroimaging to arrive at neural characterization of cognitive functions, such as: executive functions, emotion, intentionality, language comprehension, and social cognition. This course will provide students a unique opportunity to learn about the potential of neuroimaging in understanding cognition. It will also help students refine their research interests and possibly choose the field of neuroscience to pursue further studies.
Prerequisites: PY 315 [Min Grade: C] or PY 253 [Min Grade: C]

PY 472. Social Psychophysiology. 3 Hours.
Current research on the effects of the social world on hormonal responses (cortisol, testosterone etc.). Several research articles will be discussed every week in a seminar format.
Prerequisites: PY 315 [Min Grade: C]

PY 488. Pediatric Psychology. 3 Hours.
Behavioral influence on health and illness; impact of health problems and illness on behavior and development of children and adolescents; family issues related to these interactions.
Prerequisites: PY 212 [Min Grade: D] and PY 315 [Min Grade: D]

PY 490. Psychology Capstone/SL. 3 Hours.
Capstone emphasizes the synthesis of knowledge and research skills expected of the undergraduate Psychology major. Students are guided in conducting research within a specific content area. Use of computers in statistical analysis of psychological research data. Also includes class readings and discussions on ethical issues. Observation or community service in selected social service agencies is an integral part of the course. Ethics and Civic Responsibility, Writing and Quantitative Literacy are significant components of this course (QEP). This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.
Prerequisites: PY 315 [Min Grade: C]

PY 499. Psychology Honors Thesis. 2 Hours.
The Capstone course represents the culmination of the undergraduate major in Psychology for participants in the Psychology Honors Program. Students complete their honors thesis with guidance from their research mentor and the honors program Director, and defend their thesis in the Psychology Honors Seminar, and also present their research at a conference or in another public venue. Participation in the Honors Program in Psychology and completion of 3 semesters of PY 399 required, one of which may be concurrently enrolled.
Prerequisites: PY 399 (Can be taken Concurrently)

Patient Safety Courses

Postdoctoral (Dentistry) Courses

PG ADD. Clinical Pedodontics II. 3 Hours.

QM-Quantitative Methods Courses

QM 214. Quantitative Analysis I. 3 Hours.
Basic statistical concepts applied to business problems. Descriptive statistics, index numbers, basic probability, Binomial, normal, Poisson, sampling, statistical inference, distributions, and estimation. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: (MA 105 [Min Grade: C] or MA 109 [Min Grade: C] or MA 125 [Min Grade: C]) and IS 103 [Min Grade: C] and BUS 110 [Min Grade: C]

QM 215. Quantitative Analysis II. 3 Hours.
Continuation of QM 214. Hypothesis testing, Chi-square distribution, simple regression and multiple regression. Other topics include: analysis of variance, time series, nonparametric statistics and quality control.
Prerequisites: QM 214 [Min Grade: C] (Can be taken Concurrently)

QM 350. Quantitative Methods for Finance. 3 Hours.
Development of the mathematical foundations of undergraduate level financial modeling and analysis, including applications of calculus, probability theory, linear algebra and Monte Carlo simulation to the measurement of asset returns and the assessment of risk, to the pricing of options and other financial derivatives, and to the solution of important financial optimization problems.
Prerequisites: (IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (IS 103 [Min Grade: C] or CS 101 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
QM 400. Survey of Management Science. 3 Hours.
Application of mathematical and statistical techniques to management problems. Network planning techniques, linear programming, inventory systems, queuing theory, simulation, and decision analysis.
Prerequisites: (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C] or (IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and QM 215 [Min Grade: C]) or (GPAU 2.00 and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and (QM 215 [Min Grade: C] and QM 215 [Min Grade: C])

QM 410. Nonparametric Statistics. 3 Hours.
Nonparametric methods applied to business decisions. Nonparametric tests for medians using one and two samples; tests for randomness and independence. Contingency tables and goodness of fit tests. All applications in area of behavioral sciences, particularly marketing and management. Completion of all pre-business requirements required.
Prerequisites: (EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAO 2.00)

QM 416. Sampling Techniques. 3 Hours.
Sampling procedures and application to estimation problems in business. Simple random, stratified, and cluster sampling reviewed and applied to simple and ratio estimators. Completion of all pre-business requirements required.
Prerequisites: (QM 215 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAO 2.00 and GPAO 2.00)

QM 420. Applied Forecasting. 3 Hours.
Practical use of various forecasting techniques on business and economic data. Topics include dynamic regression models, exponential smoothing, forecast criteria, moving averages, seasonality, and univariate Box Jenkins ARIMA modeling. Completion of all pre-business requirements required.
Prerequisites: (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and QM 215 [Min Grade: C] or (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and IS 103 [Min Grade: C] or CS 101 [Min Grade: C]) and QM 215 [Min Grade: C] and QM 215 [Min Grade: C]

QM 425. Applied Regression Analysis. 3 Hours.
Simple, multilinear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer. Completion of all pre-business requirements required.
Prerequisites: (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and GPAO 2.00 and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and GPAO 2.00 and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and GPAO 2.00 and AC 201 [Min Grade: C] and EC 211 [Min Grade: C])

QM 426. Statistics for Quality and Productivity. 3 Hours.
Application of statistics to improve quality and productivity throughout organization. Process analysis and improvement via numerical and graphical procedures illustrated with construction and interpretation of control charts. Tolerances, specifications, process capability studies, and elements of total quality program as espoused by Deming and Ishikawa.
Prerequisites: (MG 403 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

QM 490. Advanced Topics in Statistics/Management Science. 3 Hours.
Statistics/management science application to problems in business and economics.
Prerequisites: (GPAT and GPAO 2.00) or (GPAT and GPAO 2.00)

QM 499. Directed Readings in Quantitative Methods. 1-3 Hour.
Readings and independent study in selected areas.
Prerequisites: EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00 and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and EC 210 [Min Grade: C]

RST-Respiratory Therapy Courses

RST 311. Principles of Patient Assessment. 4 Hours.
Patient care procedures, physical assessment, laboratory assessment, communication skills and charting, and patient care issues. Ethics, professionalism, and civic responsibility in Respiratory Care. Admission to the Respiratory Therapy program or permission of instructor required. Ethics and Civic Responsibility are significant components of this course (QEP).

RST 312. Basic Respiratory Care Procedures. 4 Hours.
Review of physical concepts and laws governing fluids; composition and percentages of atmospheric gases. Principles, operations, maintenance, and identifying characteristics of primary gas systems. Rationale, indications, contraindications, hazards, and maintenance of common medical gas delivery systems. Humidity and humidifiers; aerosol and nebulizers; administration of aerosolized solutions; gas analysis and analyzers. Incentive spirometry, IPPB, and other hyperinflation techniques. Advanced oxygen and aerosol therapy, bedside patient assessment, postural drainage, and vibropercussion.

RST 313. Basic Respiratory Care Procedures Laboratory. 3 Hours.
Laboratory practice of respiratory care procedures included in RST 311 and RST 312: reinforcement of material covered in RST 314 by using hands-on instruction and evaluation of the student’s psychomotor skills. Also involves audiovisual programs and computer assisted instruction.

RST 314. Respiratory Care Pharmacology. 3 Hours.
Legal aspects, terminology, use of pharmacology references, routes of administration, solutions and dosages, pharmacodynamics, autonomic nervous system, alpha and beta receptors, bronchodilators, mucolytics, respiratory stimulants, neuromuscular blocking agents, expectorants, cough and cold medications, steroids, cromolyn sodium and anti-infective agents.

RST 321. Clinical Practicum in Respiratory Care I. 4 Hours.
Practical application of respiratory care performed under supervision at clinical sites and proficiency evaluations of selected respiratory care procedures.
RST 322. Cardiopulmonary Anatomy and Physiology. 3 Hours.
Structure of airways, lung parenchyma, chest wall, pulmonary and systemic circulations, diaphragm, heart, and kidneys. Physiology of pulmonary blood flow, ventilation, gas diffusion, gas transport, ventilation/perfusion relationships, control of ventilation, hemodynamics, pressure and flow relationships, arterial blood gases and acid-base balance, electrical properties of heart, contractile properties of heart, cardiac output, regulation of arterial blood pressure, and renal physiology.

RST 323. Airway Management. 2 Hours.
Selection, application, maintenance, and discontinuance of various artificial airways, including intubation, extubation, tracheostomy care, and suctioning.

RST 324. Pulmonary Pathology. 2 Hours.
Diseases affecting the respiratory system, genetics and genetic diseases of the respiratory system, including symptoms, signs, laboratory tests, etiology, and treatment; emphasis on diseases commonly encountered by practicing respiratory therapists.

RST 325. Directed Study in Respiratory Care I. 1 Hour.
Study of conditions and therapeutic measures frequently confronting respiratory care practitioners; student case study presentations and discussions. The Student will also submit an article to the Focus Journal (Magazine) on a Respiratory Therapy topic as part of the course assessment. Writing is a significant component of this course (QEP).

RST 326. Airway Management and Advanced Procedures Laboratory. 2 Hours.
Laboratory practice of respiratory care procedures and reinforcement of material covered in RST 312, RST 322, RST 323 and RST 324 by using hands-on instruction and evaluation of the student's psychomotor skills.

RST 331. Clinical Practicum in Respiratory Care II. 4 Hours.
Clinical refinements of concepts and procedures in cardiopulmonary care with emphasis on advanced procedures in adult and pediatric care.

RST 332. Mechanical Ventilation. 4 Hours.
Basic physics and mechanics of artificial ventilation; theory and practical application of manual resuscitators and mechanical ventilators; ventilator classification and general operational characteristics.

RST 333. Mechanical Ventilation Laboratory. 3 Hours.
Laboratory practice of mechanical ventilation procedures and reinforcement of material covered in RST 332.

RST 334. Critical Care Monitoring. 2 Hours.
Assembly and operation of hemodynamic monitoring systems, safety precautions, quality control, and troubleshooting of equipment; measurement, interpretation, and application of hemodynamic parameters.

RST 411. Clinical Practicum in Respiratory Care III. 3-4 Hours.
Clinical refinement of concepts and procedures in cardiopulmonary care with emphasis on special procedures; pulmonary rehabilitation; and home respiratory care, diagnostic testing, and advanced adult, pediatric, and neonatal critical care procedures and functions.

RST 412. Advanced Mechanical Ventilation. 4 Hours.
Advanced mechanical ventilation techniques, including advanced concepts in adult and neonatal mechanical ventilators, transport, and homecare; overview of advanced mechanical ventilation techniques, such as liquid ventilation.

RST 413. Special Procedures and Pulmonary Function Testing. 3 Hours.
Pulmonary function testing procedures including equipment, spirometric measurement of pulmonary function, lung volume measurements, pulmonary mechanics tests, gas distribution studies, lung diffusion studies, exercise testing, bronchial provocation testing, interpretation and application of test results, and case studies. Assistant functions in tracheostomy and thoracostomy tube insertion, bronchoscopy, thoracentesis, tracheotomy, and pulmonary artery catheterization; insertion of arterial cannulae; and introduction to neurodiagnostic procedures and sleep studies.

RST 414. Special Procedures Laboratory. 2 Hours.
Laboratory practice in respiratory care practitioner's role in fiberoptic bronchoscopy, thoracentesis, tracheotomy, arterial cannulation, transtracheal catheter placement, and sleep studies; laboratory practice of basic pulmonary function procedures.

RST 421. Clinical Practicum in Respiratory Care IV. 3.4 Hours.
Continuation of previous clinical practice with further refinement of concepts and procedures in cardiopulmonary care with emphasis on special procedures, pulmonary function testing, pulmonary rehabilitation, home care therapy, diagnostic testing, hemodynamic monitoring, advanced mechanical ventilation procedures.

RST 422. Long Term and Preventative Care. 2 Hours.
Components of rehabilitation programs, patient education and motivation, home care concepts, reimbursement, gerontology, specialized home care procedures, and preventative care procedures. Ethics and Civic Responsibility are significant components of this course (QEP).

RST 423. Perinatal/Pediatric Respiratory Care. 3 Hours.
Anatomy, physiology, embryonic development of human fetus, with emphasis on embryonic lung development; transition from fetal to extra-uterine life; prenatal and perinatal history. Etiology, pathophysiology, clinical presentation, radiologic assessment and management of neonatal and pediatric lung diseases. Obstructive airway diseases in infants and children. Congenital heart diseases; sudden infant death syndrome and apnea disorders; Reye's Syndrome and other eurologic/neuromuscular disorders.

RST 424. Long Term and Pediatric Laboratory. 1 Hour.
Laboratory practice of respiratory care procedures and reinforcement of material covered in Long Term and Preventative care and Pediatrics.

RST 425. Laboratory Proficiency Practice. 2 Hours.
Laboratory course designed to give senior student chance to practice all of laboratory proficiencies taught throughout curriculum prior to taking Laboratory Proficiency Exit Examination.

RST 426. CRT Exam Review. 1 Hour.
Review of all respiratory therapy topics covered on CRT Entry Level exam that student must take before graduation.

RST 427. Review of Critical Care Concepts. 1 Hour.
Concepts involved in care of critically ill patients, including hemodynamic monitoring, fluid and electrolyte studies, metabolic studies, and mechanical ventilation concepts. Ethics and Civic Responsibility are significant components of this course (QEP).
RST 431. Clinical Internship. 6 Hours.
Final clinical experience before graduation; student will choose specialization area, such as neonatal, adult critical care, pediatrics, and pulmonary function.

RST 432. Directed Study in Respiratory Care III. 2 Hours.
Study of conditions and therapeutic measures frequently confronting respiratory care practitioner; student case study presentations and discussions. Submission of an original Review of the Literature Paper for Publication in the Respiratory Care Journals. Prerequisite: Admission to RST Program. Writing is a significant component of this course (QEP).

RST 433. Research for Respiratory Therapists. 4 Hours.
This course will introduce the student to clinical research methods and review concepts involved in descriptive and inferential Statistics. Topics covered include, overview of the research process, literature review, research hypothesis, research designs, sample selection, measurement methods, descriptive statistics, and inferential statistics.

RST 440. Asthma Certification Preparation Course. 4 Hours.
The content of this course will cover the asthma condition, pathophysiology of asthma, factors that contribute to acute and chronic asthma, patient history, physical examination of the asthma patient, objective measures to identify and assess asthma severity, how to assess the patient's performance and asthma protocols.

RST 445. Educational Methods in Respiratory Care. 4 Hours.
This course will introduce the student to patient education and health promotion. Topics covered will include how to write learning objectives, how to evaluate patient education, how to prepare and present a topic for an in-service presentation, how to present a lecture in a classroom and in the laboratory environment along with patient teaching.

RST 460. Polysomnographic Technology I. 2 Hours.
Course designed to provide entry-level didactic and laboratory training in polysomnographic technology basics. Topics covered: medical terminology, instrumentation setup and calibration, recording and monitoring techniques, documentation, professional issues, and patient-technologist interactions related to polysomnographic technology. Laboratory sessions teach entry-level polysomnographic technologist skills.

RST 461. Polysomnographic Technology Clinical I. 2 Hours.
Course provides student with patient contact in sleep lab. Student will observe, perform (under supervision), and evaluate entry-level aspects of sleep studies.

RST 462. Polysomnography Technology II. 2 Hours.
Advanced topic in lecture and laboratory on techniques used in the Polysomnography clinical setting. This includes calibration, recording and scoring of sleep study data. Patient disease states commonly diagnosed in the sleep laboratory.

RST 463. Polysomnographic Technology Clinical II. 2 Hours.
This course provides the student with advanced patient contact in several local Sleep Laboratory Centers. The student will observe perform (under supervision), and evaluate advanced aspects of sleep analysis.

Registrar’s Use Only Courses
REGR 101. Official Registrar Use Only. 0 Hours.

Rehabilitation Sciences Courses

SA-Surgeons Assistant Courses

SA 302. Physiology. 6 Hours.
Course emphasizes the normal function and control of various systems within the human body. The principles taught will serve as foundation for understanding the etiology, management, and prevention of disease processes.

SA 303. Human Gross Anatomy and Neuroanatomy. 4 Hours.
Course provides a comprehensive survey of the gross anatomy of the human along with functional and applied anatomy as it relates to common clinical findings. It utilizes a lecture format and cadaver dissection laboratory sessions.

SA 303L. Human Gross Anatomy Lab. 0 Hours.

SA 305. Medical Physiology I. 3 Hours.

SA 306. Medical Physiology II. 3 Hours.

SA 307. Physiological Chemistry. 1 Hour.

SA 308. Pharmacology I. 3 Hours.

SA 309. Pharmacology II. 3 Hours.

SA 310. Surgical Care Techniques I. 2 Hours.
These are three in a series of courses providing didactic instruction and applied technical skills in surgical techniques and various invasive medical procedures. An animal surgery laboratory, using live pigs, is an essential component of SA 310 and SA 311. SA 312 places students in operating rooms in Birmingham-area hospitals, where they are taught the basics in surgical first assisting.

SA 310L. Surgical Care Techniques I Lab. 0 Hours.

SA 311. Surgical Care Techniques II. 2 Hours.

SA 312. Operating Room Techniques. 2 Hours.
These are three in a series of courses providing didactic instruction and applied technical skills in surgical techniques and various invasive medical procedures. An animal surgery laboratory, using live pigs, is an essential component of SA 310 and SA 311. SA 312 places students in operating rooms in Birmingham-area hospitals, where they are taught the basics in surgical first assisting.

SA 313. Orthopedics. 1 Hour.
Course provides an introduction to the etiology, patho-physiology, diagnostic workup, and management of common orthopedic diseases.

SA 314. Electrocardiography. 1 Hour.
Course presents the basic concepts needed to interpret the electrocardiogram and will provide opportunities to develop interpretive skills through analysis of rhythm strips and 12-lead electrocardiograms. Upon completion of the course, students will be able to systematically interpret basic rhythm strips and 12-lead electrocardiograms.

SA 315. Respiratory Therapy. 1 Hour.

SA 317. Risk Management. 1 Hour.
Course provides an introduction to the legal, political, and professional issues affecting physician assistant practice.

SA 320. Physical Diagnosis I. 4 Hours.

SA 320L. Physical Diagnosis I Lab. 0 Hours.

SA 321. Physical Diagnosis II. 5 Hours.

SA 321L. Physical Diagnosis II Lab. 0 Hours.
SA 322. Lab Diagnosis. 4 Hours.
An introduction to laboratory diagnostics with an emphasis on pathology, microbiology, hematology, and clinical chemistry. This course utilizes a lecture format, specimen handling in a clinical laboratory as well as cost effective diagnostic algorithms in problem-based case scenarios.

SA 323. Clinical Medicine I. 2 Hours.
SA 324. Clinical Medicine II. 7 Hours.
SA 325. Clinical Medicine III. 8 Hours.
SA 326. Surgical Disease I. 3 Hours.
Course introduces students to common surgical disorders with early emphasis on physiologic changes, medical requirements, and evaluation of patients before, during, and after surgery. It also provides basic instruction in the diagnosis, management, and complications associated with common surgical gastrointestinal and urogenital disorders.

SA 327. Surgical Disease II. 2 Hours.
Course is delivered via didactic instruction and focuses on the preoperative evaluation and diagnosis, and post-operative management and treatments of common disorders of the heart, lungs, and vascular systems.

SA 330. Human Gross Anatomy. 5 Hours.
SA 330L. Human Gross Anatomy Lab. 0 Hours.
SA 331. Neuroanatomy. 3 Hours.
SA 331L. Neuroanatomy Lab. 0 Hours.
SA 332. Clinical Medicine I. 3 Hours.
SA 333. Clinical Medicine II. 7 Hours.
SA 334. Clinical Medicine III. 8 Hours.
SA 335. Pharmacology I. 4 Hours.
SA 336. Pharmacology II. 2 Hours.
SA 337. Medical History and Physical Examination I. 3 Hours.
SA 337L. Physical Diagnosis I Lab. 0 Hours.
SA 338. Medical History and Physical Evaluation II. 3 Hours.
SA 338L. Medical History and Physical Evaluation II Lab. 0 Hours.
SA 340. Applied Behavioral Sciences. 2 Hours.
Course introduces students to human behavior, strategies and issues surrounding health education and theoretical models of how to change human behavior. This knowledge will enable students to incorporate health promotion and disease prevention strategies in their daily clinical practice to the benefit of their patients.

SA 350. Fundamentals of Clinical Research. 2 Hours.
Course provides students with the foundation of epidemiologic measures, the reasons for patterns of disease occurrence, the principles of medical surveillance, the methods for investigating disease outbreaks and the principles of diagnostic tests. Students will review study designs, the roles of variability and bias in the interpretation of scientific literature, and the principles of clinical decision-making based on medical literature.

SA 421. Senior Seminar I. 3 Hours.
These courses focus on a review of primary care medicine topics to prepare students for the PA National Certification Examination (PANCE). They also require students to orally present two 30-minute presentations to the class on pre-assigned topics and prepare an accompanying one-page outline summarizing important points. Student presentations may be supplemented by cases seen on rotations or information gained from professional development seminars.

SA 422. Senior Seminar II. 3 Hours.
These courses focus on a review of primary care medicine topics to prepare students for the PA National Certification Examination (PANCE). They also require students to orally present two 30-minute presentations to the class on pre-assigned topics and prepare an accompanying one-page outline summarizing important points. Student presentations may be supplemented by cases seen on rotations or information gained from professional development seminars.

SA 423. Senior Seminar III. 2 Hours.
These courses focus on a review of primary care medicine topics to prepare students for the PA National Certification Examination (PANCE). They also require students to orally present two 30-minute presentations to the class on pre-assigned topics and prepare an accompanying one-page outline summarizing important points. Student presentations may be supplemented by cases seen on rotations or information gained from professional development seminars.

SA 431. Clinical Service I. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 432. Clinical Service II. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 433. Clinical Service III. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 434. Clinical Service IV. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.
SA 435. Clinical Service V. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 436. Clinical Service VI. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 437. Clinical Service VII. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 438. Clinical Service VIII. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 439. Clinical Service IX. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 440. Clinical Service X. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 441. Clinical Service XI. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SA 442. Clinical Service XII. 4 Hours.
The 12-month clinical phase is composed of nine required and three elective rotations lasting four weeks each. Required rotations include: Ob-Gyn, Emergency Medicine, Pediatrics, Internal Medicine, Family Practice, Psychiatry/Geriatrics, Orthopedics, General Surgery, and Cardiovascular Thoracic surgery. Students must successfully complete the end-of-rotation exam at the conclusion of all required rotations. Clinical year students return to campus each week to participate in a seminar series and evaluation exercises.

SOC-Sociology Courses

SOC 100. Introduction to Sociology. 3 Hours.
Human social life, its forms and consequences for everyday life. Social inequality and differentiation by race, ethnicity, class and gender. Assessment of the competency is through performance on course examinations, quizzes, and written assignments.

SOC 120. Introduction to Social Psychology. 3 Hours.
How societies and groups affect perception of self and others; emotional climate and structure of group interaction; processes and dynamics of group leadership, interaction, and dissolution.

SOC 130. Intimate Relationships and the Family. 3 Hours.
Contemporary trends of marriage, cohabiting and partnerships; dating and courtship; social and psychological factors in mate selection; marital adjustment; role of sex, money, and children in marriage; divorce, other crisis situations, and changing patterns of family relationships in U.S. including the increase in LGBT families.

SOC 135. Human Sexuality. 3 Hours.
Social basis of sexual interaction; varieties of sexual interaction; sexuality related to daily life; attitudes, contraceptive use, and fertility and fecundity; sex role controversies; relation to institutions such as family, religion, medicine, and education; social definitions as determinants of behavior.

SOC 200. Social Change. 3 Hours.
Understanding social change helps us to better anticipate, prepare for, and shape the future. Examination of how and why human societies have changed so profoundly since prehistoric times; focus on information and technology as catalysts for change; patterns of change in contemporary societies from world system and comparative perspectives.

SOC 220. Sociology of Sex and Gender. 3 Hours.
This course discusses the presumed biological differences; socialization differences of females and males; positions in and treatment by major institutions such as education, religion and economy; influence of gender labeling on development and lives of individuals.

SOC 230. Family and Kinship. 3 Hours.
Structure and dynamics of family institutions and kinship systems in cross-cultural perspective over time and space; theoretical implications of family's relationship to social and technological environment, and the impact of globalization.
SOC 235. Sociology of Religion. 3 Hours.
Social aspects of individual religious experience; organization of churches
and sects; relationships among religion, science, and other institutions;
Major faith groups: religion and global conflict.

SOC 240. Family Conflict and Violence. 3 Hours.
Origins, manifestations, effects, controls, and rehabilitation aspects of
family conflict and violence.

SOC 245. Contemporary Social Problems. 3 Hours.
How certain social conditions or behaviors come to be seen as social
problems, why they persist and how they can be changed. Emphasis on
understanding contemporary issues, and how diverse social groups are
impacted by them.

SOC 250. Race and Ethnic Relations. 3 Hours.
Various ethnic and racial groups, with emphasis on theory and research
on intergroup relations; internal structure, culture, and experiences of
ethnic groups, with emphasis on contemporary American society.

SOC 275. Urban Sociology. 3 Hours.
Lifestyle changes in urban society; social and demographic
characteristics of cities; benefits and problems resulting from these
characteristics; urban problems compared with rural and suburban
problems.

SOC 278. Global and International Sociology. 3 Hours.
Globalization is a pervasive feature of contemporary social life. A world
economy, a world polity, and a world culture are rapidly expanding.
This course examines globalization’s aspects and impacts to begin
understanding its causes, effects, and implications for our own lives.

SOC 279. Contemporary China. 3 Hours.
Significant sociological issues facing modern China including: economic
development, population problems, social inequality, religious freedom,
and family dynamics.

SOC 280. Introduction to Medical Sociology. 3 Hours.
Social and cultural factors in defining health and illness; social
determinants of health; health and illness behavior; health professionals;
organization and delivery of health care in the U.S. (This course was
formerly titled Health and Society).

SOC 282. Minority Health. 3 Hours.
The relationship between race, ethnicity, health, social and behavioral
factors, and health policy. Health related issues specific to various racial
and ethnic groups will be discussed.

SOC 283. The Sociology of Mental Health. 3 Hours.
Examination of mental and illness in its social context the social
construction of mental health and illness the interrelationships between
social structure, social factors, stress, coping resources and mental
health experiences of mental health and illness.

SOC 285. Introduction to Aging. 3 Hours.
Aging experience in modern world. Theories of aging, dimensions of
aging, everyday concerns associated with aging, and future prospects of
aging.

SOC 290. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: C]

SOC 291. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 292. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 293. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 294. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 295. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 296. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 297. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 298. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

SOC 299. Special Topics in Sociology. 1-3 Hour.
Irregularly offered courses on special topics in sociology. Varies in
content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]
SOC 340. Deviant Behavior. 3 Hours.
How and why certain behaviors, thoughts, and characteristics are labeled deviant; how and why certain individuals are labeled; consequences of being labeled; individual and group conflict; socialization to deviance; education; law enforcement; institutions; influence on family and friends.

SOC 350. Sociology of Hip Hop. 3 Hours.
Examines the emergence and impact of Hip Hop music and culture from historical, aesthetic, and sociopolitical perspectives.

SOC 360. Sociology of Work. 3 Hours.
Social organization of occupations; role and function in modern industrial society; gender and race; professionalism, job choices, and careers and stress; labor force composition, unemployment, and retirement. This class often does a field trip to a local business.

SOC 370. Population Problems. 3 Hours.
Scope and method of population analysis; analysis of growth, distribution of characteristics, and changes of population of U.S.; impact of changes in population structure on American and world society.

SOC 383. Drugs and Society. 3 Hours.
Variety of legal and illegal drugs in use in our society, their history, their social effects, and strategies for control and prevention of their abuse.

SOC 385. Social Psychology of Aging. 3 Hours.
Behavioral and structural relationships of aged population in America. Aging and interpersonal behavior, aging and social structure, and aging and social intervention.

SOC 395. HIV/AIDS and Society. 3 Hours.
This course explores the social impact of HIV/AIDS in local, national, and international contexts, focusing on how society has responded to and changed as a result of HIV/AIDS, including public health surveillance and interventions, policies and funding for prevention/research, and broader cultural changes.

SOC 404. Survey Research Methods. 3 Hours.
Current best practices in survey research and applied experience in designing, administering, and analyzing data from surveys. Useful for marketing, polling, etc.
Prerequisites: SOC 410 [Min Grade: C]

SOC 405. Mind, Self and Society. 3 Hours.
Symbolic interaction as major theoretical perspective of sociological social psychology; origins of approach in Mead, Blumer, and Goffman. Significance of concepts such as role-taking, impression management, self, identity and symbolic interaction.

SOC 407. Development of Sociological Theory. 3 Hours.
Social thought from earliest classic thinkers to current sociological theories; interrelationship between sociological theory and research; how theories are constructed; application of theory to contemporary problems through various writing assignments. Writing is a significant component of this course (QEP).

SOC 410. Social Statistics. 4 Hours.
Elementary techniques and analysis; preparation and use of graphs and tables; measures of central tendency and dispersion; probability and sampling; tests of significance and measurements of association. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 102 [Min Grade: D] or MA 110 [Min Grade: D]

SOC 410L. Social Statistics Laboratory. 0 Hours.
Laboratory component of SOC 410. Required for all sociology majors. Cross listed as SW 321L. Quantitative Literacy is a significant component of this course (QEP).

SOC 415. Social Stratification. 3 Hours.
Inequality of wealth, prestige, and power distribution examined as caste-class differences; effect of stratification on individuals and their behavior, lifestyle, and life chances.

SOC 416. Sociology of the South. 3 Hours.
Focus on the South as a unique region. Race relations are the organizing principle. Examines areas such as history, politics, religion, music, personality, social types and collective behavior.

SOC 417. Political Sociology. 3 Hours.
Political sociology traces the relationships between political ideas, government structures, social life, and the neverending efforts of individuals and groups to modify these relationships to achieve their best notions of the good life.

SOC 431. Environmental Sociology. 3 Hours.
Examines the interaction between the biophysical environment and human society, how social processes, define, construct, and alter the environment, and human causes and consequences of environmental problems.

SOC 445. Biology and Society. 3 Hours.
This course introduces students to the basic techniques and theoretical models through which modern sociologists and other social scientists incorporate genetic and biological information and processes into their understanding of society.

SOC 455. Minority Aging. 3 Hours.
Cross-racial/ethnic exploration on national level of special problems of minority aged groups such as Latinos, Blacks, Chinese, Japanese, Koreans, Pacific-Asians, and American Indians. Family, church, health care, housing, adult education, retirement, income, and recreation.

SOC 456. Death and Dying. 3 Hours.
Death, dying and bereavement from sociological and social psychological perspectives.

SOC 457. The Aging Family. 3 Hours.
This course examines family relationships from middle to late adulthood from a sociological perspective. We examine issues such as caregiving, preparing for retirement, family relationships and how they vary depending on family structure, effects of divorce and remarriage, parenting at older ages and assisted reproductive technologies, transfers and saving, family ties etc. Much of the class is oriented towards how later life experiences are guided by earlier life situations.

SOC 459. Aging: Policy and Programs. 3 Hours.
Analysis of American social policies on aging and aged. Survey of related legislation, programs, and services. Special focus on evaluating effects of policies and programs for aged.

SOC 469. Political Sociology. 3 Hours.
How roles and statuses change with age in relation to major social institutions: adjustments people make to such changes. Aging population’s impact on society and effect of society on aged.

SOC 470. Urban Ecology. 3 Hours.
Spatial distribution of social, demographic, and physical factors in urban environment; distribution of population by age, race and class; competition for land between businesses and home owners; consequences of local ecology for poverty, health, etc.

SOC 472. Homelessness: Causes and Consequences. 3 Hours.
Current problems of homelessness in U.S. history, health, mental health, poverty, public attitudes, and government policy. Civic Engagement course.
SOC 480. Sociology of Health and Illness. 3 Hours.
Critical evaluation of medical care system and health policy; social consequences of current health issues; social causes of health and illness; alternative practitioners and self-help groups. (This course was formerly titled Medical Sociology).

SOC 482. Gender and Health. 3 Hours.
Sociological, psychological and biological explanations of gender differences in mental and physical health across the life course.

SOC 488. Sociological Practice/SL. 3 Hours.
Students will be involved in community research and/or service-learning projects related to a substantive area of sociology or gerontology. Placement in community organizations to focus on research or practice related to social policy.

SOC 489. The Research Experience. 4 Hours.
Capstone includes application of the basic tools of inquiry in sociological research; basic ethical issues in research; forming the research question; hypothesis testing; measurement, sampling, validity and reliability; data gathering techniques; research design; data management; disciplinary standards for writing the research proposal and reporting findings. For students in their last 30 hours.

SOC 489L. The Research Experience Laboratory. 0 Hours.
Laboratory component of the Capstone course, required of all Sociology majors.

SOC 490. Independent Study: Sociology. 1-3 Hour.
Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.

SOC 491. Independent Study and Special Courses in Sociology. 1-3 Hour.
Peer-facilitated, structured dialogues on topics related to social identity in a diverse society. Separate topics on gender, race, religion, sexualities. Mat be repeated for credit but topic may not be repeated.

SOC 492. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.

SOC 493. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.

SOC 494. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.

SOC 495. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.

SOC 498. Sociology Honors Seminar. 3 Hours.
Special seminar for sociology honors students. Prerequisite: admission to the Sociology Honors Program and permission of the Undergraduate Director in Sociology.

SOC 499. Sociology Honors Thesis. 3 Hours.
Sociology Honors Thesis.

SPA-Spanish Courses

SPA 100. Introductory Spanish I. 4 Hours.
Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Conducted in SPA.

SPA 101. Introductory Spanish I /QL. 4 Hours.
Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing and reading. Additional Quantitative Literacy component. Conducted in SPA. Quantitative literacy is a significant component of this course (QEP).

SPA 102. Introductory Spanish II. 4 Hours.
Continuation of SPA 101. Conducted in Spanish.

SPA 106. Introductory Intensive Spanish. 4 Hours.

SPA 180. Spanish for Health Professionals. 3 Hours.
Intensive conversation course to expose health professionals to basic vocabulary of Spanish-speaking patients. Focus on practical vocabulary, idiomatic expressions, and cultural patterns of Spanish-speaking patients with little or no proficiency in English. Conducted in Spanish.

SPA 190. Study Abroad. 6 Hours.
Approved program in a Spanish-speaking country.

SPA 201. Intermediate Spanish I. 3 Hours.
Continued development of grammar, composition, reading, writing, listening comprehension, speaking, and cultural proficiency. Conducted in Spanish.

SPA 202. Intermediate Spanish II. 3 Hours.
Continuation of SPA 201. Conducted in Spanish.

SPA 203. Intermediate Spanish Review. 3 Hours.
This course is designed as a review of the content covered in Introductory Spanish I, Introductory Spanish II, Intermediate Spanish I, and Intermediate Spanish II, while deepening the knowledge and understanding about different grammatical and cultural topics. This course is especially useful for students who have already taken Spanish courses at the intermediate level but whose exposure has been limited or fragmented in recent times. The primary focus of this course is to improve communication skills in Spanish. Therefore, Spanish is the language of instruction.

Prerequisites: SPA 201 [Min Grade: D]
SPA 206. Intermediate Spanish for the Professions. 3 Hours.
Focusing on Spanish-speaking professional culture, course emphasizes elementary-level conversation acquisition and vocabulary. Conducted in Spanish.

SPA 210. Conversation and Culture. 3 Hours.
Development of oral expression within the context of contemporary Spanish-speaking cultures.

SPA 214. Introduction to Translation and Interpretation for the Professions. 3 Hours.
This course introduces students to translation and interpretation techniques, theory and vocabulary related to the professions. The course is conducted in Spanish.
Prerequisites: SPA 201 [Min Grade: C]

SPA 233. Intermediate Spanish Composition and Conversation. 3 Hours.
Foundational composition and conversation, which focuses on correct written and oral expression in Spanish.

SPA 280. Spanish for Health Professionals. 3 Hours.
Focusing on the Spanish-speaking health-related culture, course emphasizes intensive conversation, technical reading, and vocabulary acquisition. Conducted in Spanish.

SPA 290. Study Abroad. 1-6 Hour.
Approved program in a Spanish-speaking country.

SPA 299. Special Readings in Spanish. 3 Hours.
Directed readings in intermediate Spanish. Studies select texts of the Spanish-speaking world to increase overall literacy in Spanish.

SPA 300. Advanced Grammar and Composition. 3 Hours.
Designed to improve the use of fundamental grammatical structures of Spanish in diverse contexts. Strong emphasis is given to the development of writing skills that are appropriate for this level. Six hours of SPA courses at the minor level required. Writing is a significant component of this course (QEP).

SPA 304. Phonetics and Phonology. 3 Hours.
Course focuses on how the Spanish sound system functions in various regions. Development of pronunciation through oral practice. Conducted in Spanish.

SPA 310. Cultures of the Spanish-Speaking World. 3 Hours.
Historical overview of the heritage of Spain, Latin America, and the Hispanic U.S., with emphasis on social, political, and economic institutions. Conducted in Spanish.

SPA 311. Survey of Spanish Peninsular Literature. 3 Hours.
Overview of Spanish civilization and literature from Medieval to Contemporary periods. Representative works of various authors, with emphasis on fundamental literary concepts and distinctive stylistic features of Spanish discourse. Conducted in Spanish.

SPA 312. Survey of Latin American Literature. 3 Hours.
Overview of Latin American civilization and literature from the Pre-Colombian era to the contemporary period. Representative works of various authors, with emphasis on fundamental literary concepts and distinctive stylistic features of Latin American discourse. Conducted in Spanish.

SPA 313. Business Spanish. 3 Hours.
Vocabulary, idioms, protocol, and style characteristic of speaking and writing commercial Spanish. Concentration on writing letters, job descriptions, advertisements, and import-export documents. Conducted in Spanish.

SPA 314. Spanish Translation and Interpretation. 3 Hours.
History, principles, theory, and practice of translation and interpretation, including a systematic study and contrastive exercises in Spanish-English translation and interpretation. A wide variety of conceptual fields with emphasis on vocabulary building. Conducted in Spanish.

SPA 380. Advanced Spanish for Health Profess. 3 Hours.
This advanced course emphasizes intensive Spanish conversation, technical readings and vocabulary pertinent to the medical field. The course focuses on practical vocabulary, idiomatic expressions, medical terminology and cultural patterns of Spanish-speaking patients. The main objectives of the course are: To further develop advanced communicative competence within the medical context of the various regions of the Spanish-speaking world, especially the Hispanic community in Alabama; To foster critical thinking skills, such as problem-identification and solving, decision making, anticipation and planning, patient understanding and achieving communication; To expand on students' functional vocabulary, in particular, the language of the Hispanic medical world at an advanced level; To promote a better understanding of the Hispanic cultures in general, especially of the Hispanic communities who live in the United States; To further develop oral, listening and reading skills at the advanced levels; To further expand on functions and notions of the language and to apply those to the medical field.

SPA 390. Study Abroad. 1-6 Hour.
Approved program in a Spanish-speaking country.

SPA 399. Special Readings in Spanish. 3 Hours.
Directed readings in Spanish.

SPA 401. Voices of Imperial Spain. 3 Hours.
Culture and civilization of Imperial Spain from the age of the Catholic Monarchs to the close of the Hapsburg Dynasty (1469-1716). Includes a study of the art, historical documents and literature from both the center and periphery of the Empire. Selected works by representative authors will vary according to instructor. Conducted in Spanish.

SPA 402. Voices of Colonial Latin America. 3 Hours.
Culture and civilization of Colonial Latin America from the advent of European dominance to the decades following the Spanish American War (1492-1920). Emphasis on the blending of Spanish, Amerindian, and African cultural forms and their diverse literary expressions. Selected works by representative authors will vary according to instructor. Conducted in Spanish.

SPA 403. Contemporary Spanish Literature and Film. 3 Hours.
Cultural and literary trends of Spain from the transformation of Spanish society in the late nineteenth century to the post-Franco era. Conducted in Spanish.

SPA 405. US Latino Writers. 3 Hours.
Focus on the growing body of literature written by Latinos in the United States. Explores Latino issues and cultural identity through the analysis of their narrative works and experience. Conducted in Spanish.

SPA 407. Indigenous and Indigenist Latin America. 3 Hours.
Cultural and literary forms of Amerindian, Hispanic or mixed-descent writers of Latin America. Focus on the concepts of hybridity, syncretism and mestizaje. Conducted in Spanish.

SPA 409. Spanish-Speaking Nobel Laureates. 3 Hours.
SPA 411. Cervantes and Imperial Spanish Society. 3 Hours.
Civilization of Golden Age Spain as reflected in Miguel Cervantess
El ingenioso hidalgo don Quixote de la Mancha and select Novelas
ejemplares. Development of modern novel and importance of Don Quixote
as national hero and recurring figure in international art, music, film, and
literature. Conducted in Spanish.

SPA 412. Voices of Contemporary Latin America 1920-Present. 3 Hours.
Cultural and literary trends of Latin America from la nueva narrativa
through the Boom and post-Boom periods. Focus on Mexico, Northern
Latin America, and the Southern Cone. Conducted in Spanish.

SPA 414. African Hispanophone Writers. 3 Hours.
Cultural and literary forms of African-descended writers in Spanish-
spaking world. Focus on African presence in Medieval and Golden Age
Spain, Equatorial Guinea, Latin America, or the Caribbean. Conducted in
Spanish.

SPA 416. Special Topics in Spanish. 3 Hours.
Seminar on individual authors, specific genres, literary movements,
literary discourse/theory, or transatlantic studies. Conducted in Spanish.
May be repeated for credit.

SPA 420. Introduction to Hispanic Linguistics. 3 Hours.
Analyze, clarify and expand upon critical aspects of the Spanish
language (grammar, vocabulary and phonetics) and related cultural
aspects in relation to the second language acquisition processes.

SPA 430. Spanish Sociolinguistics. 3 Hours.
This advanced Spanish linguistics course provides a general overview
of sociolinguistics and the pragmatics of oral communication in Spanish.
This course studies the Spanish language in its social context. In addition
to specific regional linguistic features, social factors such as geography,
social class, politics, race, gender, economics, education and history are
discussed as determiners of the linguistic landscape.

SPA 440. History of Spanish Language. 3 Hours.
This advanced Spanish linguistics course provides a general overview
of the evolution of Spanish language, while relating it to relevant
historical events. It pays special attention to diachronic change in order
to understand the phenomenon of language variation in a multicultural
society.

SPA 450. Spanish Second Language Acquisition. 3 Hours.
This course describes the cognitive, developmental and linguistic
processes involved in the acquisition of Spanish as a second language
while exploring the basic research techniques used in the field.
Prerequisites: SPA 300 [Min Grade: D]

SPA 490. Study Abroad. 1-6 Hour.
Approved program in a Spanish-speaking country.

SPA 499. Directed Studies. 3 Hours.
Directed readings in Spanish. Conducted in Spanish.

STH-Science and Tech Honors Courses

STH 100. Program Participation/SL. 1 Hour.
Service learning for Science and Technology Honors Program students.
Credit earned through program meetings, volunteerism, Student
Executive Council, campus lecture series attendance, and other activities
approved by the program director. Student is responsible for maintaining
required attendance records/documentation.

STH 101. Program Meetings. 0 Hours.
Participation in regular program meetings and/or seminar series.

STH 105. Skills for Leadership and Innovation. 1 Hour.
Introduction to individual leadership styles and basics of team function.
Student groups address innovation challenge to apply leadership and
teamwork principles.

STH 151. Problem Analysis and Project Planning. 1 Hour.
Students will analyze a problem or need and develop a plan to address
the need. Skills such as developing measurable outcomes and
communicating with stakeholders are emphasized.
Prerequisites: STH 150 [Min Grade: C] or HAC 101 [Min Grade: C]

STH 199. Introduction to the Scientific Process. 2 Hours.
Fall semester of freshman year for students accepted in the Science and
Technology Honors Program. Discussion of basic concepts of scientific
methodology will be woven around presentations by faculty from diverse
disciplines. Discussion of contemporary scientific topics is also included.

STH 200. Program Participation II/SL. 1 Hour.
Service learning for Science and Technology Honors Program students.
Credit earned through program meetings, volunteerism, Student
Executive Council, campus lecture series attendance, and other activities
approved by the program director. Student is responsible for maintaining
required attendance records/documentation.
Prerequisites: STH 100 [Min Grade: P]

STH 201. Research Approaches I. 3 Hours.
Spring semester of freshman year. Hands-on experience with research
methods. Students participate in a lab experience such as biotechnology,
engineering, or chemical analysis in which they learn state-of-the-art
techniques used in research laboratories.
Prerequisites: STH 199 [Min Grade: C]

STH 202. Research Approaches II. 3 Hours.
Spring semester of sophomore year. Students will complete research
rotations in laboratories related to their areas of interest with the goal of
selecting a laboratory in which to conduct their honors thesis research by
the end of the term. Bioethics discussions will be included.
Prerequisites: STH 299 [Min Grade: C]

STH 250. PrimeTime Leadership. 1-3 Hour.
Carry through leadership or innovation project. Document outcome of the
project, report to stakeholder, and prepare public presentation of project.
Prerequisites: STH 151 [Min Grade: C] or HAC 201 [Min Grade: C]

STH 270. Perspectives on Innovation. 3 Hours.
Focus on investigating examples of innovation with the goal of
understanding the social, scientific, and economic context that supports the
innovative climate. Permission of instructor required.

STH 299. Interdisciplinary Seminar. 3 Hours.
Fall semester of sophomore year. Team-taught course with faculty from
several disciplines addressing how a complex problem is addressed by
multiple disciplines. This course will illustrate the synergy achieved by
interdisciplinary analysis of problems.
Prerequisites: STH 201 [Min Grade: C] or CH 201 [Min Grade: C]

STH 301. Statistics and Design Overview. 3 Hours.
Spring semester of sophomore year. Introduction to statistics and
research design. Covers basics of experimental design and statistical
decision theory; indices of central tendency, variability, and association;
graphical data presentation; and statistical inference.

STH 302. Statistics/Design Overview Lab. 1 Hour.
Spring semester of sophomore year. Computer laboratory component of
STH 301 Statistics and Design Overview. Lab will illustrate principles and
provide hands-on experience with statistical methods.
STH 310. Communicating Science. 1-3 Hour.
Students will collaborate with university faculty and staff to produce media
products which communicate scientific concepts to the public. Permission
of instructor is required.

STH 350. Next Level Leadership. 1-3 Hour.
Overseight of team organized to sustain leadership or innovation project.
Prerequisites: STH 250 [Min Grade: C] or HAC 301 [Min Grade: C]

STH 395. Honors Proposal Preparation. 1 Hour.
Seminar for students who are preparing to propose their honors thesis
research project and have worked in a lab for a minimum of one
semester. Students will present and discuss their research plans and
provide input into the proposals of classmates. Honors thesis research
proposals will be completed by the end of the semester and defended
before a faculty committee. Students must have permission of the
program director if they have not completed at least one semester of
mentored research prior to taking this course.
Prerequisites: STH 398 [Min Grade: C]

STH 396. Internships/Comm Projects/SL. 1-3 Hour.
Experiential learning through individually designed community based or
clinically related experiences. Each project will have both experiential and
academic components. Permission of program director is required.

STH 397. Independent Study. 1-3 Hour.
Individually designed academic course of study under the direction of a
selected faculty member. Permission of the program director is required.

STH 398. Undergraduate Research. 1-6 Hour.
Laboratory research under the supervision of a faculty mentor.
Permission of program director is required.

STH 399. Honors Thesis Research. 1-6 Hour.
Undergraduate research for student’s honors thesis project under the
supervision of a faculty mentor. Students may register for this course
after approval of their honors thesis proposal in STH 395.
Prerequisites: STH 395 [Min Grade: C]

STH 400. Honors Thesis Preparation. 1 Hour.
Students will prepare their honors thesis in the format of a journal article
during this course and present it to their faculty committee for approval.
Prerequisites: STH 201 [Min Grade: C], STH 395 [Min Grade: C]

SW-Social Work Courses

SW 100. Introduction to Social Work. 3 Hours.
The overall goal of this course of this course is to introduce students to
the value-based profession of social work. More specifically, the students
will have the opportunity to learn about social work’s history mission,
its professional values and its theoretical frame the systems/ecological
perspective. Further, students will explore arenas in in generalist practice
and the varied roles and responsibilities of social work professional in
a range of fields or practice. Students will be afforded the opportunity
to examine their own personal values and how those values influence
their views on social welfare problem and issues. SW 100 is required
for social worker majors and social work minors, an it is open to others
as an elective. Students generally take SW 100 while completing core
requirements.

SW 200. Professional Writing for Human Service Professionals. 2
Hours.
An introduction to the techniques of professional writing for human
service practitioners. The course is designed to enhance professional
and academic writing skills. Students in this class will receive practice in
writing to a variety of professional audiences typical of the human service
workplace. The course will be of benefit to students who want to advance
their competencies in manuscript development and general writing
skills for the social sciences. Content includes a review of the basic
writing mechanics for English composition. For professional publications
and social science academic papers, emphasis will be placed on the
American Psychological Association’s (APA) documentation style and
manuscript format guidelines. Students will study how to craft narrative
proposals for funding - support applications. Writing is a significant
component of this course (QEP).

SW 201. Evidence-Based Social Work Practice. 3 Hours.
An introduction to the concepts and the process involved in evidence-
based and empirically based social work practice. It will cover the skills,
values, and ethics necessary in this process and field, concentrating on
the identification, analysis, and implementation of evidence, as well as
empirically based social work practice, which promotes the effectiveness
of practice in intervention at the individual, family/group, organization and
community levels.

SW 203. Social Welfare History. 3 Hours.
A history of U.S. social welfare and its relationship and impact on current
social work practice. Additionally, the course explores, within a social
justice context, the historical impact of social welfare policies on the well-
being of individuals and communities.

SW 205. Geriatric Services & Social Work/SL. 3 Hours.
This course uses a risk-resilience framework to examine the major
issues affecting older adults. The course will focus on knowledge,
skills, and values for working effectively with this growing, yet at-risk
population. Content of the course examines how health disparities, race/
ethnicity, social class, and gender impact successful aging. The course
is recommended for students who want to expand their knowledge,
sensitivity, and understanding of the aging process. The course will
introduce students to the role of social workers in a variety of settings
and agencies serving the aged population. This is a designated service-
learning course integrating academic learning, civic learning and
meaningful service to the community.

SW 206. The Family in Cross-Cultural Perspective. 3 Hours.
Relationships within and among cultural units commonly referred to as
“the family”; survey of domestic groups in various sociocultural settings.

SW 207. Racism, Sexism and Other Isms. 3 Hours.
Ethical dilemmas in relating to disadvantaged groups such as minorities,
aged, women, gays and lesbians, and disabled persons.

SW 208. Disaster Preparedness. 3 Hours.
A multi-disciplinary perspective on aspects of disaster preparedness
and response to natural and man-made disasters. Provides review of
current recommendations on disaster preparedness, local, state and
federal response networks and organizations, and psychosocial aspects
of response including sheltering, crisis intervention and psychological first
aid.

SW 222. Values Laboratory/SL. 4 Hours.
An introduction to the helping professions with on-site observations in
local social service agencies. A didactic classroom and experiential lab
that integrates field observation with self-awareness. At the conclusion of
this course, students may apply for social work major status. Ethics and
Civic Responsibility are significant components of this course (QEP).
SW 302. Social Welfare Policy Analysis. 3 Hours.
Introduces analytical frameworks with which to evaluate contemporary U.S. social welfare policy; it is designed for students with basic knowledge of the history of social welfare. The course also examines the relationship between current policy and the practice of social work today. Additionally explored is the real-world impact of current policy on the well-being of individuals and communities, within a social justice context.
Prerequisites: SW 203 [Min Grade: C]

SW 304. Family Preservation. 3 Hours.
An introduction to policy, child welfare system, theories, and practice models of family preservation. Will cover skills, values, and ethics of working with high-risk families in their home setting. Primary focus will be on strength-based perspectives that promote child protection, family preservation, and family reunification.

SW 305. Social Work in Perinatal Settings. 3 Hours.
Covers issues facing families in perinatal settings, providing an overview of the social work role from a generalist practice model. This course covers practice issues related to services to families during pregnancy, delivery and childbirth, and the neonatal period. Topics will be covered from a multidisciplinary perspective, highlighting the impact of culture and diversity during specified times of life transition, including medical and psychosocial issues. Social Work interventions will be discussed using an evidence-based framework.

SW 309. Community Resources for Special Populations. 3 Hours.
Analysis of community-based programs for specific populations: older citizens, persons with HIV/AIDS, and chronic mentally ill.

SW 313. Human Behavior and The Social Environment I. 3 Hours.
The first of two required courses in Human Behavior and the Social Environment, this course is designed to prepare students to understand human development across the different levels of social systems. The course explores theories, concepts, and knowledge from conception through early adolescence. Content also includes discussion of how factors such as social class, sexual orientation, gender, physical ability, age, race, ethnicity, and culture influence human development and behavior.

SW 314. Human Behavior in the Social Environment II. 3 Hours.
The second of two required courses in Human Behavior and the Social Environment, this course is designed to prepare students to understand human behavior across the life cycle. The course explores theories, concepts, and knowledge from early adolescence through death. Students acquire knowledge and understanding of human beings as individuals, as members of families, and other social groupings, and as members of organizations, communities, and larger societal and cultural collectives. Content includes discussion of how factors such as social class, sexual orientation, gender, physical ability, age, race, ethnicity and culture influence human development and behavior.
Prerequisites: SW 313 [Min Grade: C]

SW 320. Introduction to Research Methods. 3 Hours.
The goal of this course is to introduce students to research theory, methods and tools; and to expand their appreciation of the quintessential role of research in guiding practice. Qualitative and Quantitative research methodologies, sampling, data collection, and data analysis, as well as skills in critiquing research studies will be taught in the context of ethical standards governing evaluation and research as set forth in the NASW Code of Ethics. This course is a part of the core curriculum of the social work program. Quantitative Literacy is a significant component of this course (QEP).

SW 321. Statistics for Social Work Research. 3 Hours.
This course provides the context for understanding the analysis and interpretation of quantitative data. Descriptive and inferential statistics will be covered, along with hypothesis testing and statistical significance. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: SW 320 [Min Grade: C]

SW 321L. Statistics for Social Work Research Laboratory. 0 Hours.
Required laboratory for SW 321, statistical exercises, homework review.

SW 322. Social Work Practice I. 4 Hours.
The primary goal of this course is to introduce students to social work’s helping process that facilitates change and improves social functioning. More specifically, students will study the structure and skills of conducting an interview and the collaborative problem-solving process. Accordingly, students will have the opportunity to learn about and to practice various interviewing skills and communication methods such as session contracting, exploring sensitive subjects, and conflict resolution/mediation. Other areas of emphasis are empathetic responding, active listening, reflecting feelings and content, and observing nonverbal communication. This course will concentrate on assessment skills at the micro-level. Integral to the course goal is a focus on self-awareness and the professional use of self needed to build an interpersonal helping relationship. Therefore, students will examine ways in which their own personal values as well as characteristics (e.g. age, gender, ethnicity) and perceptions (e.g. belief in client autonomy, non-judgmentalism, body language), may influence their communication with others. Emphasis will also be placed on documentation (narratives, comprehensive assessments) and the importance that accurate and timely documentation plays in our work with clients. Ethics and Civic Responsibility are significant components of this course (QEP).

Examines current trends in service delivery and relevant policy issues concerning the health and well being of children.

SW 422. Social Work Practice II. 3 Hours.
Generalist model application of social work practice at the mezzo and macro levels. Students will look at resource/case management, creating alliances, community change, and social activism and advocacy. Focus on adherence to Code of Ethics and ethical practice.
Prerequisites: SW 322 [Min Grade: C]

SW 428. Medical and Mental Health Social Work. 3 Hours.
An introduction to and overview of working with people called “patients” in medical and mental health. These settings include medical hospitals, clinics, public health agencies, non-profit organizations, and mental health inpatient and outpatient facilities.

SW 454. Working with Substance Abusers. 3 Hours.
Examines the impact of substance abuse on individuals, families, groups, organizations, institutions and communities. This course is recommended for students who want to expand their knowledge and sensitivity for understanding the special problems that substance abuse brings to society. Course content includes identification of the various drugs of abuse, major theories of addiction, and examination of the psychological and physiological consequences of substance abuse.

SW 478. Special Topics in Social Work. 3 Hours.
Study of current issues in social work.
SW 490. Practicum in Social Work/SL. 9 Hours.
Integration of social work knowledge and values with application of professional helping skills. Students participate in a full-time placement in approved social service agencies under supervision of master’s-level social workers.
Prerequisites: SW 488 [Min Grade: C]|(Can be taken Concurrently)

SW 492. Practicum Seminar. 3 Hours.
The capstone course in Social Work is an integrative seminar that must be taken concurrently with SW 490. The seminar in Social Work. The seminar reviews basic social work tools that will enhance the students' work with client systems by providing opportunities to increase their knowledge of the social work profession, practice collegial collaboration for the benefit of clients, and engage in strategies for problem-solving. The seminar also provides a forum to review students' practicum experiences, discuss social work practice issues, and reflect on the relationship of these experiences to their overall social work education program.
Prerequisites: SW 489 [Min Grade: P]|(Can be taken Concurrently)

SW 498. Independent Study I. 1-3 Hour.
Research under direction of faculty member.

SW 499. Independent Study II. 1-3 Hour.
Research under direction of faculty member.

Sustainable Smart Cities Courses

SSC 301. Fund of Sustainable Dev. 3 Hours.
This course serves as a qualitative introduction to Sustainable Development. Lectures will address the fundamentals of environmental engineering; sustainable and green practices and materials; air, water and land pollution; and solid and hazardous waste management. The course will also address emerging research and technologies related to the development of sustainable smart cities.

THR-Theatre Courses

THR 100. Introduction to the Theatre. 3 Hours.
Understanding the theatre experience through class lectures, reading and writing assignments, demonstrations, discussions, and viewing live evening performances. Writing is a significant component of this course (QEP).

THR 102. Introduction to Cinema. 3 Hours.
Students will learn the various skills required to create a film, be familiar with the roles of Writer, Producer, Director, Director of Photography, Composer, and Editor, learn what takes place in the preproduction, production, and post production phases of film production while becoming familiar with award-winning films from around the world. Students will consider the relationship of film art to historic events while gaining an understanding of how the psychological framework of the filmmaker, as well as his/her personal philosophy, mold the message and method of a film.

THR 105. Introduction to Dance. 3 Hours.
Understanding the dance experience through class lectures, demonstrations, discussions, and viewing performances.

THR 106. Jazz I. 2 Hours.
Basic movement and combinations based on modern jazz, Broadway/theatrical styles, and popular jazz forms. May be repeated 2 times for a total of 6 hours.

THR 107. Tap I. 2 Hours.
Basic rhythmic studies and combinations based on Broadway/theatrical tap styles. May be repeated 2 times for a total of 6 hours.

THR 108. Ballet I. 2 Hours.
Fundamentals of classic ballet technique with emphasis on analysis and proper execution.

THR 124. Theatre Technology: Scenery and Lighting. 3 Hours.
Scenic construction techniques and execution of stage lighting via lectures, demonstrations, and practical application. Emphasis in tools, materials and procedure. 40 lab hours outside of scheduled classes required.

THR 125. Theatre Technology: Costumes and Makeup. 3 Hours.
Fundamentals of costume construction, finishing and manipulation. Basic stage makeup techniques. Lectures, demonstrations and practical experience. 30 lab hours outside of scheduled classes required.

THR 126. Film Technology: Cinematography, Audio and Editing. 3 Hours.
Fundamentals of film technology, camera operations, lighting, audio, editing and an introduction to the fundamentals of composing basic camera shots.

THR 154. Beginning Acting. 3 Hours.
Introduction to the basic principles of acting. Exercises in talking and listening, actions and objectives, subtext and internal monologue.

THR 160. Theatre Cornerstone. 1 Hour.
The objective of this course is to introduce incoming freshmen to the professional performing arts industry and the UAB Department of Theatre community. Its primary objective is to prepare students for a successful collegiate career in the study and practice of theatre. Course required for majors in the first fall semester of residency.

THR 200. Plays on Film. 3 Hours.
Understanding major genres of drama through lecture, analysis, reading scripts, and viewing performances.

THR 202. Voice and Movement for the Actor I. 3 Hours.
This course seeks to integrate voice and body in order to develop a free, flexible, and dynamic voice and body for the actor. Students will explore body work in order to develop kinesthetic awareness in the centering, grounding, and release of tension which are essential to the freeing of the voice. Students will explore expanded field of awareness as well as breath release, support for sound, resonance, embodying sounds, vocal hygiene, and vocal dynamics with applications to speaking text.

THR 203. Voice and Movement for the Actor II. 3 Hours.
A continuation of Voice and Movement for the Actor I with special emphasis on voice/body integration, field of awareness, breath support, range, dynamics, phrasing, tempo-rhythms. Students will explore how to use the voice working with a variety of dramatic texts. Additionally, students will explore principles of the Alexander Technique. May be repeated two times with permission of instructor.
Prerequisites: THR 202 [Min Grade: C]

THR 204. Beginning Production Practicum. 1-2 Hour.
Practical directed production experience in conjunction with actual production. THR 204 and THR 404 may be repeated for a combined total of 8 hours.

THR 205. Beginning Performance Practicum. 1-2 Hour.
Practical directed performance experience in conjunction with actual production. Requires audition. THR 205 and THR 405 may be repeated for a combined total of 8 hours.

THR 206. Jazz II. 2 Hours.
Intermediate exploration of jazz idiom, musicality, and technique, with emphasis on theatrical and choreographic styles.
Prerequisites: THR 106 [Min Grade: C]
THR 207. Tap II. 2 Hours.
Advanced exploration of tap genre, with emphasis on musicality and technique.
Prerequisites: THR 107 [Min Grade: C]

THR 208. Ballet II. 2 Hours.
Continued study of classic ballet technique.
Prerequisites: THR 108 [Min Grade: C]

THR 210. Introduction to Theatrical Design. 3 Hours.
Study and application of elements of design in theatre setting. Roles of scenic, lighting, and costume designers and their collaborative relationship with director.

THR 215. Playwriting I. 3 Hours.
Study and practice in playwriting with emphasis on creating works for production and/or publication. Permission of instructor required. Writing is a significant component of this course (QEP).
Prerequisites: EH 101 [Min Grade: C]

THR 216. Screenwriting I. 3 Hours.
Study and practice in writing scripts for TV and film, with emphasis on creating works for production and/or sale.
Prerequisites: EH 101 [Min Grade: C]

THR 226. Drawing and Rendering for the Theatre. 3 Hours.
Emphasis on rendering styles and drawing skills used in developing costume, scenic, and lighting designs. Studies in color theory, basic perspective, illustrating light source and figure drawing. Work in a variety of media and styles.
Prerequisites: THR 210 [Min Grade: C]

THR 230. Stage Management. 3 Hours.
The role and responsibilities of the stage manager for live theatrical events. Emphasis on managerial theory and practice.

THR 235. Analysis of Dramatic Literature. 3 Hours.
An examination of seminal dramatic works from the Ancient Greeks to the present day. Students will apply structural analysis to these works, focusing on their dramatic action, character development and language, in order to mine the ideas contained in them and determine how these ideas might be articulated to audiences in a live stage production.
Prerequisites: EH 101 [Min Grade: C]

THR 254. Intermediate Acting. 3 Hours.
Second part of a three part sequence. This course explores and applies the techniques of the acting process as proscribed through Constantin Stanislavski’s text, AN ACTOR PREPARES: given circumstances, character objectives, physical objectives, internal and external characterization techniques.
Prerequisites: THR 154 [Min Grade: C]

THR 258. Musical Theatre Performance I. 3 Hours.
This performance-oriented course provides a systematic approach to achieving a high level of singing-acting skills. Students also receive training and practice in understanding the musical score and its role in character development.
Prerequisites: THR 154 [Min Grade: C]

THR 259. Musical Theatre Performance II. 3 Hours.
This performance-oriented course provides instruction leading to the refinement of systematic approaches to achieving higher level singing and acting skills through an exploration of different musical styles and historical genres. Students also receive training and practice in selecting, preparing and presenting audition material.
Prerequisites: THR 258 [Min Grade: C]

THR 261. Musical Theatre Showcase I. 1 Hour.
This course focuses on rehearsal and performance techniques through practical exploration of scenes and songs from assigned musical theatre selections leading to proficiency in performance skills and preparation for graduation and the profession.
Prerequisites: THR 259 [Min Grade: C]

THR 277. Filmmaking I. 3 Hours.
The basics of using digital cameras and editing software. Making short movies using scripts and actors.
Prerequisites: THR 126 [Min Grade: C]

THR 279. Cinematography. 3 Hours.
The theory and practice of camera work for shooting narrative and documentary films.
Prerequisites: THR 126 [Min Grade: C] or THR 277 [Min Grade: C]

THR 300. Exploring the African-American Creative Experience. 3 Hours.
Contributions of African Americans to theatre and dance. Creative process and application of creative process through live performance.
Prerequisites: THR 100 [Min Grade: C] or THR 200 [Min Grade: C] or THR 235 [Min Grade: C]

THR 303. History of Film I: Origins to 1960. 3 Hours.
From the first silent movies to the development of the modern color sound movie of Hollywood in the fifties: comparison and contrast of the views of major film makers of the sixty years of the 20th Century.
Prerequisites: EH 101 [Min Grade: C]

THR 304. History of Film II: 1960 to Present. 3 Hours.
From the modern color sound movie of the fifties and the Nouvelle Vague to the latest movies produced around the globe: comparison and contrast of the views of filmmakers since the 1960s.
Prerequisites: THR 303 [Min Grade: C]

THR 306. Jazz III. 2 Hours.
Advanced study in Jazz technique and musicality with complex combinations and understanding of theatrical style.
Prerequisites: THR 206 [Min Grade: C]

THR 315. Playwriting II. 3 Hours.
Advanced Study and practicum in playwriting with emphasis on creating works for production and/or publication. Writing is a significant component of this course (QEP).
Prerequisites: THR 215 [Min Grade: C]

THR 316. Screenwriting II. 3 Hours.
Advanced study and practicum in writing feature-length screenplays, with emphasis on creating works for production, sale, and/or publication.
Prerequisites: THR 216 [Min Grade: C]

THR 318. Modern Stage Combat. 3 Hours.
Fighting for the stage and screen.

THR 323. Lighting Design. 3 Hours.
Exploration of the theory and practice of lighting design for live performance.
Prerequisites: THR 124 [Min Grade: C] and THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 325. Theatre Sound Design and Technology. 3 Hours.
Principles and practice of designing, engineering and propagating audio for live theatrical productions.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]
THR 326. Scenic Design. 3 Hours.
Exploration of the theory and practice of scene design for live performance.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 327. Costume Design. 3 Hours.
Exploration of the theory and practice of costume design for live performance. Basic principles of design, characterization and rendering technique.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 350. Costume History and Period Style for the Theatre. 3 Hours.
A selective study of clothing, architecture, furniture and decorative arts of different historical eras, with emphasis on popular theatrical eras and styles. Includes an examination of the societal, cultural, and economic influences which shape historical style.
Prerequisites: EH 102 [Min Grade: C]

THR 355. Advanced Acting. 3 Hours.
Advanced level class in actor training. Students will be introduced to specific period styles acting techniques for Shakespearean drama, restoration drama, and emerging changes for performance techniques in the plays of Henrik Ibsen and Anton Chekhov.
Prerequisites: THR 154 [Min Grade: C] and THR 202 [Min Grade: C] and THR 254 [Min Grade: C]

THR 358. Musical Theatre Performance II. 3 Hours.
This performance-oriented course provides an advanced refinement of systematic approaches to achieving a high level singing-acting skills. Students also receive training and practice in selecting, preparing and presenting audition material.
Prerequisites: THR 258 [Min Grade: C]

THR 360. Internship. 3 Hours.
Experience in non-academic theatre under supervision of professional staff. Interns may work in single area of specialty or in rotation throughout host theatre organization and may contract for single term or academic year.

THR 361. Musical Theatre Showcase II. 1 Hour.
This course focuses on rehearsal and performance techniques through practical exploration of scenes and songs from assigned musical theatre selections leading to proficiency in performance skills and preparation for graduation and the profession.
Prerequisites: THR 261 [Min Grade: C]

THR 365. Directing I. 3 Hours.
Basic principles of staging, picturization, composition, focus, and movement. Text analysis, directorial scoring, and actor/director dynamics.
Prerequisites: THR 154 [Min Grade: C] and THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 374. Video Editing. 3 Hours.
Advanced video/audio editing using a variety of computer platforms.
Prerequisites: THR 126 [Min Grade: C]

THR 375. Filmmaking II. 3 Hours.
Building on work in Filmmaking I, students will learn to apply the artistic and technical elements of visual and auditory storytelling in the preproduction phase of producing a short film. They will gain experience in screenwriting, scouting locations, holding auditions and casting, creating lined scripts, drawing storyboards.
Prerequisites: THR 277 [Min Grade: C]

THR 376. Filmmaking III. 3 Hours.
Building on work in Filmmaking II, students will shoot and edit the film for which preproduction was completed in Filmmaking II. Students will be trained on cameras and sound equipment as well as learn industry film set protocol. They will recruit crew members, create shooting schedules, finalize locations and shoot short films. They will gain experience in the artistic and technical aspects of editing and sound track mixing.
Prerequisites: THR 375 [Min Grade: C]

THR 377. Acting for the Camera. 3 Hours.
Acting in film and television.

THR 378. Film Directing. 3 Hours.
Students will study the films and directing techniques of the great film directors from around the world. They will then apply those directing techniques as they design shots and work with actors in filmmaking exercises. Activities in this course are divided between film analysis and exercises in a workshop format.
Prerequisites: THR 376 [Min Grade: C]

THR 401. NYC Showcase. 3 Hours.
Preparation of songs, monologues and scenes for presentation to casting directors and agents. Students enrolled in this course will be required to cover costs associated with travel to New York City.

THR 404. Advanced Production Practicum. 1-2 Hour.
Practical directed production experience in conjunction with actual production. Prior to taking THR 404, student must have completed the 3 required practicum credits. THR 204 and THR 404 may be repeated for a combined total of 8 credits.

THR 405. Advanced Performance Practicum. 1-2 Hour.
Practical directed performance experience in conjunction with actual production. Requires audition. Prior to taking THR 405, student must have completed the 3 required practicum credits. THR 205 and THR 405 may be repeated for a combined total of 8 hours.

THR 420. Teaching Theatre in the Secondary School. 3 Hours.
Course provides the student with a complete understanding and utilization of the knowledge and skills needed to teach theatre at the secondary school level.

THR 451. Musical Theatre History and Script Analysis. 3 Hours.
Exploration of the origins and development of musical theatre, from the mid-18th century to the present day. An introduction to the staples of musical theatre literature, to develop a critical sensitivity to the medium and to enable the analysis of music, plots, characters and situations in contemporary musical theatre.
Prerequisites: EH 102 [Min Grade: C]

THR 455. Advanced Studio in Performance. 3 Hours.
Advanced exploration of special topics related to acting through performance including but not restricted to period styles, dialects, ensemble work, solo performance, or any other specialized genre.
Prerequisites: THR 154 [Min Grade: C]

THR 461. Musical Theatre Showcase III. 1 Hour.
This course focuses on rehearsal and performance techniques through practical exploration of scenes and songs from assigned musical theatre selections leading to proficiency in performance skills and preparation for graduation and the profession.
Prerequisites: THR 361 [Min Grade: C]

THR 462. Special Workshop. 1-3 Hour.
Specialized subjects taught as opportunity allows. May be repeated for credit.
THR 465. Directing II. 3 Hours.
Preparing performances. Director/actor communication in rehearsal, rehearsal motifs, rehearsal organization, and finishing production. Actual direction of one-act play for laboratory performance.
Prerequisites: THR 365 [Min Grade: C]

THR 470. Individual Project in Design and Production. 1-3 Hour.
Directed individual study in topics related to theatrical design and production. Proposals for individual projects must be approved prior to registration. May be repeated for credit. Individual Project in Design: The design of costumes, scenery, lighting, audio, or makeup for a mainstage production under the supervision of a faculty mentor. Individual Project in Production: Hold the position and execute the responsibilities of a specific production position, such as a cutter/draper or technical director, while under the supervision of a faculty mentor.

THR 471. Advanced Studio in Scenery. 3 Hours.
Advanced exploration of special topics related to scenic design and production. May be repeated for credit.

THR 472. Advanced Studio in Costumes. 3 Hours.
Advanced exploration of special topics related to costume design and production. May be repeated for credit.

THR 473. Advanced Studio in Lighting. 3 Hours.
Advanced exploration of special topics related to lighting design and production. May be repeated for credit.

THR 474. Advanced Studio in Audio. 3 Hours.
Advanced exploration of special topics related to audio design and production. May be repeated for credit.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 475. Filmmaking IV. 3 Hours.
In this course, students will expand upon the experience gained in Filmmaking II and III by working as part of a crew (industry model) to write, cast, shoot and edit an original narrative. They will gain further experience as a Screenwriter and Editor as well as at least one of the following: Producer, Director, Director of Photography, Audio, Assistant Director/Continuity. Students will gain advanced experience in the artistic and technical aspects of non-linear editing.
Prerequisites: THR 376 [Min Grade: C]

THR 476. Audio for Film: Recording and Mixing. 3 Hours.
Audio recording in studio and field, proper microphone techniques, non-linear, multi-track mixing for motion pictures, radio, and television.
Prerequisites: THR 376 [Min Grade: D]

THR 478. Music Video Production. 3 Hours.
Designing, shooting, and editing a music video using film industry crew protocol.
Prerequisites: THR 376 [Min Grade: C]

THR 480. Individual Project in Film. 1-3 Hour.
An opportunity for students to write, produce and/or direct an original 10-20 minute film as an independent project.

THR 481. Theatre History to 1860. 3 Hours.
An exploration of Western theatre from 500 B.C. to 1860 by focusing on the Classical, Medieval, Renaissance, Restoration, and Enlightenment periods. The original historical and performance contexts of plays written during the period will be considered to illuminate the cultural and political role of theatre through the ages. The class format includes lectures, class discussions, group exercises, and creative and research projects.
Prerequisites: THR 235 [Min Grade: C]

THR 482. Theatre History from 1860 to Present. 3 Hours.
An exploration of nineteenth and twentieth century Western theatre, focusing on Romanticism, Realism and Non-Realism. Also introduces students to the most popular forms of traditional non-Western theatre to explain their influence on the European avant-garde. Emphasis will be placed on seminal plays, theatre spaces and design, acting techniques, and directing styles. The class format includes lectures, class discussions, group exercises, and creative and research projects.
Prerequisites: THR 235 [Min Grade: C]

THR 489. Individual Studies in Film. 1-3 Hour.
An opportunity for students to write, produce and/or direct an original short film as an independent project.

THR 491. Theatre Capstone. 2 Hours.
An exploration of the role of theatre and the theatre artist in the macrocosm of the world. Synthesis and assessment of the academic theatre experience through writing assignments, class discussion, and oral presentations focused on career preparation and planning, the role of theatre in society, defining a personal aesthetic and collaboration. Required for graduation in last year of residency.

THR 492. Film Internship/Capstone. 3 Hours.
A synthesis experience for students as they apply what they have learned to a real-life, work environment. When possible, students are expected to intern with a Los Angeles film or television production company.
Prerequisites: THR 475 [Min Grade: C]

THR 493. Musical Theatre Capstone. 2 Hours.
An exploration of the business of musical theatre including information about contracts, unions, agents/managers, casting directors, taxes and other life strategies in order to develop a specific plan for the next steps after graduation. Students prepare themselves for professional careers by developing such items as resumes, audition material, headshots and websites. Required for graduation in last year of residency.

THR 496. Honors Project. 3 Hours.
Admission into the departmental honors program.

THR 499. Individual Studies. 1-3 Hour.
Directed individual study in theatre topics unrelated to design and production. Proposals for individual projects must be approved prior to registration. May be repeated for credit.

TOX-Toxicology Courses

UA-Urban Affairs Courses

UNIV-University Courses

UNIV 101. The University Experience. 3 Hours.
Students receive training, experience and prescriptive feedback on critical thinking skills and their applications to Core Curriculum courses in the following ways: lecture, discussion, readings, and exercises. Students interact with academic advisors in supportive, diagnostic and prescriptive ways to determine individual needs for academic success. Students participate in activities outside the classroom that will support critical thinking and integration into the university.

UNIV 105. Surviving and Thriving at UAB: Freshman Success Course. 2 Hours.
Surviving and Thriving at UAB: A Freshman Success Course.
UNIV 201. Exploring Major Options. 1 Hour.
Students will explore their values and priorities as well as their academic and career options in order to select a major suited to their educational and professional goals. Students will also learn about and utilize University resources to enhance their college experience and discover how to connect their educational goals to life after college.

UNIV 204. Pathfinder: Soph to Profess/SL. 2 Hours.
The purpose of the course is to help students begin the process of evolving from a student into a professional. Coursework will feature learning that is needed beyond GPA and MCAT/DAT/OAT scores before applying to professional schools. Attention will be focused on and will include self-assessment, personal and professional development related to health care, specific relevant areas of social psychology, and the writing of a personal action plan. Throughout the course students will actively participate in Cooper Green Mercy Hospital’s volunteer program. This experiential learning will be woven into the fabric of the entire course and students will apply the concepts and skills learned in class to this volunteer experience. In addition to attending class, sophomores enrolled in Pathfinders: The Path from Sophomore to Professional are required to both volunteer at Cooper Green Mercy Hospital one 4-hour block a week and attend one spring Sophomore Assessment Interview.

UNIV 205. Independent Study/SL. 1 Hour.
UNIV 301. Leadership for Peer Mentors. 1 Hour.
Students explore knowledge, skills and attitudes, which are foundational for meaningful and effective peer mentoring relationships. The course will examine the role of the peer mentor in the university community and in the matriculation and retention process for first year students.

Unknown UAB Equivalency Courses
UNKN 101. Unarticulated Course. 9 Hours.
UNKN 201. Unarticulated Course. 9 Hours.
UNKN 301. Unarticulated Course. 9 Hours.
UNKN 401. Unarticulated Course. 9 Hours.

VIS-Vision Science Courses
VIS 429. Intro to Neurobiology. 3 Hours.
Students will be introduced to the neuroanatomy and neurophysiology of marine invertebrates and vertebrates. The following aspects of neurobiology will be covered in lectures and laboratory exercises: neurons and glia, passive properties of neurons; resting potentials; action potentials; synaptic transmission; neurotransmitters and receptors; sensory transduction; muscle innervation and contraction; sensorimotor integration; and neurophysiological bases of behavior. In addition, students will use computer simulations that allow a more in-depth exploration of cellular neurobiology than is possible in standard laboratory classes. Preq: Introductory Biology; Recommended: General Chemistry and General Physics.

VIS 450. Electronics for Biologists. 2 Hours.
VIS 455. Electronic for Biologists. 3 Hours.
This course provides an overview of the fundamental concepts of electronics that are relevance to a biologist. The material is aimed at non-engineers who need a backgroun in the circuit concepts needed for studying ion channels, electrophysiology, the basic s of the proper use of amplifier and filter, and the use of computers to acquire and analyse data. There will be a mix of formal lectures and problem set with practical hands-on experience.

VIS 456. Visual Neuroscience. 4 Hours.
Vision begins with photons and ends in the brain. How does it all work? This course introduces the student to the anatomical and physiological underpinnings of visual perception, stepping from single photoreceptors in the retina on through the cortical neural circuits devoted to capturing every facet of seeing the world. Lectures are supplemented with hands-on sessions where students can test their own vision.

VIS 499. General and Ocular Pharmacology. 4 Hours.

VS-Vision Science Courses
VS 111. Ocular Anatomy. 4 Hours.
Basic ocular anatomy.

VS 111L. Ocular Anatomy Lab. 0 Hours.
Ocular anatomy lab.

VS 112. Physiology of the Eye. 4 Hours.
Gross and microscopic anatomy of the eye and adnexa, including blood supply, drainage and innervation. Light microscopy and ultrastructure of the human eye.

VS 112L. Physiology of the Eye Lab. 0 Hours.

VS 113. Biochemistry of the Eye. 2 Hours.
Physiology of tears, cornea, intraocular fluids, and lens. Intraocular pressure and mechanisms for its control.

VS 113L. Physiology of the Eye Lab. 0 Hours.

VS 121. Neurobiology of the Visual System. 5 Hours.

VS 121L. Visual Optics Lab. 0 Hours.

VS 121R. Remedial Biochemistry of Eye. 2 Hours.

VS 122. Visual Psychophysics. 4 Hours.
Physiology of the Eye.

VS 122L. Visual Psychophysics Lab. 0 Hours.

VS 123. Psychophysical Assessment of Visual Function. 3 Hours.
Fundamentals of how vision and visual function are measured. Absolute threshold, intensity discrimination, adaptation to light and dark, spatial acuity, spatial vision, temporal factors, postnatal visual development, and aging.

VS 123L. Psychophysical Assessment Lab. 0 Hours.

VS 131. Neurobiology of Visual System. 2 Hours.

VS 131L. Neurobiology Visual System Lab. 0 Hours.

VS 132. Eye Movements/Principles of BV. 3 Hours.

VS 132L. Eye Movements Lab. 0 Hours.

VS 133. Eye Movements/Principles of BV. 3 Hours.

VS 141. Eye Movements/Principles of BV. 3 Hours.

VS 141L. Eye Movements/BV Lab. 0 Hours.

VS 142. Neurobiology of the Visual Sys. 2 Hours.

VS 211. Visual Perception. 3 Hours.

VS 211L. Visual Perception Lab. 0 Hours.

VS 212. Eye Movements & Normal Binocular Vision. 1 Hour.
Eye movements, accommodation and control mechanisms. Normal vision with two eyes. Binocular correspondence, disparity detection, stereopsis, and integration of binocular stimulation.
VS 221. Visual Development. 1 Hour.
A) Color vision, psychophysical and physiological responses of the visual system to lights of different wavelengths. (B) Analysis of visual perception, perceptual channels, evoked potentials & perception, suprathreshold psychophysics, form vision.

VS 221L. Visual Perception Lab. 0 Hours.

VS 231. Visual Perception. 3 Hours.

VS 231L. Visual Perception Lab. 0 Hours.

WS-Womens Studies Courses

WS 100. Introduction to Women’s and Gender Studies. 3 Hours.
Interdisciplinary study of roles of women in society through social, political, economic, philosophical, historical, and biological perspectives. Required for Women’s and Gender Studies Minor.

WS 280. Special Topics in Women’s and Gender Studies. 3 Hours.
Subjects of special interest, such as women and religion, women and war and theories of women's studies. Varies in content depending upon topic. Students may enroll under these numbers multiple times but topic may not be repeated.

WS 357. Anthropology of Gender. 3 Hours.
Roles of women, men, and other genders from a cross-cultural perspective; includes bio-cultural approaches to sex and gender and changing gender roles over time. Course involves substantial writing component in essay examinations and research papers. Writing is a significant component of this course (QEP).

WS 380. Special Topics: Women’s and Gender Studies. 3 Hours.
Interdisciplinary study of gender in society through social, political, economic, philosophical, historical, and biological perspectives. Required for Women’s and Gender Studies Minor.

WS 400. Theory and Practice of Women’s and Gender Studies: Senior Seminar. 3 Hours.
Everyday applications of feminist and queer theories. Required for the minor.
Prerequisites: WS 100 [Min Grade: D]

WS 480. Special Topics in Women’s and Gender Studies. 1-3 Hour.
Subjects of special interest, such as women and religion, women and war, and theories of women’s studies. Varies in content depending upon topic. Students may enroll under these numbers multiple times but topic may not be repeated.

WS 490. Directed Readings in Women’s and Gender Studies. 1-3 Hour.
Independent study with faculty guidance of selected gender-related issues.

WS 491. Directed Studies in Women’s and Gender Studies. 1-3 Hour.
Independent research with faculty guidance on selected gender-related issues.

WS 495. Internship in Women’s and Gender Studies. 1-3 Hour.
Experience in community agency working with women or gender issues. Course requirements dependent upon number of credits student wishes to take.
Aban, Inmaculada
School of Public Health (Chichi)
Department of Biostatistics, Ph.D. (Bowling Green State), Associate Professor. Clinical Trials, Model Diagnostics, Survival and Reliability Analysis, Inference for Heavy Tailed Distributions.

Abbott, Gypsy
School of Education
Department of Human Studies, Professor of Educational Psychology and Research, 1982, B.A. (Birmingham-Southern), M.A., Ph.D. (Alabama)

Abrams, Marshall
College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 2007, A.B. (California-Davis), Ph.D. (Chicago)

Accetta, Valerie
College of Arts and Sciences
Department of Theatre, Assistant Professor, Head of Musical Theatre, 2013, B.A. (Otterbein), M.F.A. (Virginia Commonwealth)

Adkins, Nell
School of Health Professions
Department of Administration Health Services, Associate Professor (Accounting); Corporate Taxation, Market Effects of Taxation, Mergers and Acquisitions, Valuation of Intangible Assets

Amsbary, Jonathan H.
College of Arts and Sciences
Department of Communication Studies, Associate Professor of Communication Studies, 1988, B.A. (New Mexico), M.A., Ph.D. (Indiana)

Amthor, Franklin R.
College of Arts and Sciences
Department of Psychology, Professor of Psychology; Interim Director, Behavioral Neuroscience Doctoral Program; Associate Professor of Biomedical Engineering, 1981, B.S. (Cornell), Ph.D. (Duke)

Andrews, J. Barry
School of Engineering
Department of Materials Science and Engineering, Professor of Materials Science and Engineering; Chair, Department of Materials Science and Engineering, 1976, B.S. (UAB), M.E., Ph.D. (Florida), P.E. (Alabama), Polymer and Metal Matrix Composites, Solidification, Physical Metallurgy

Angus, Robert A.
College of Arts and Sciences
Department of Biology, Professor Emeritus of Biology, 1978, B.S. (Wisconsin), Ph.D. (Connecticut), Aquatic Toxicology

Appleton, Joseph H.
School of Engineering
Department of Civil, Construction, and Environmental Engineering, Distinguished Service Professor Emeritus of Civil Engineering, 1959, B.C.E. (Auburn), M.S., Ph.D. (Illinois), P.E. (Alabama)

Arnett, Donna
School of Public Health
Department of Epidemiology, Professor and Chair (Epidemiology), Cardiovascular Genetic Epidemiology, Pharmacogenetics

Atigadda, Venkatram
College of Arts and Sciences
Department of Chemistry, Research Assistant Professor of Chemistry, 2003, B.S. (Gulbarga-India), M.S., Ph.D. (Auburn)

Austad, Steven
College of Arts and Sciences
Department of Art Art History, Professor of Art, 1978, B.Arch., M.Arch. (Cornell), M.F.A. (Louisiana State)

Alexandrov, Anne
School of Nursing
Professor of Nursing, 2007, B.S.N., M.S.N. (Texas), Ph.D. (Texas Woman’s University)

Allison, Carol
School of Education
Department of Curriculum and Instruction, Instructor of Special Education (Visual Impairment), 1999, B.A. (Northwestern State), M.A. (UAB)

Allison, Kelly
College of Arts Science
Department of Theatre, Professor of Theatre; Chair, Department of Theatre, 1998, B.F.A. (Stephens), M.F.A. (Minnesota)
Department of Biology, Professor and Chair (Biology), 2014, B.A. (UCLA), B.A. (California State-Northridge), Ph.D. (Purdue), Comparative Biogerontology, Assessment of Animal Healthspan, and Cellular and Molecular Mechanisms of Aging

Ayers, Douglas J. School of Business
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Marketing and Industrial Distribution, 1999, B.S., M.B.A. (Tennessee), Ph.D. (Kentucky)

Azuero, Andres School of Nursing
Associate Professor of Nursing, 2008, B.Sc. (University de Los Andes), M.B.A. (Louisiana State), Ph.D. (UAB)

Bach, Rebecca Ann College of Arts and Sciences
Department of English, Professor of English, 1994, B.A., M.A., Ph.D. (Pennsylvania)

Bacha, Jeffrey College of Arts and Sciences
Department of English, Assistant Professor of English, 2012, B.A. (University of Michigan-Flint), M.A. (Georgia State University), Ph.D. (Purdue), Rhetoric and Composition, Professional and Technical Communication

Baddley, John School of Health Professions
Department of Surgical Physician Assistant Studies, Associate Medical Director; Infectious Disease

Baker, Danielle School of Nursing
Instructor of Nursing, 2011, B.S.N., M.S.N. (Jacksonville State)

Baker, Elizabeth H. College of Arts and Sciences
Department of Sociology, Assistant Professor of Sociology, 2012, B.A., M.A. (Bowling Green), Ph.D. (Pennsylvania State)

Baker, Lisa College of Arts and Sciences
Department of Social Work, Assistant Professor of Social Work, 2005, B.A. (Georgia), M.S.W. (Florida International), Ph.D. (Georgia)

Baker, Natalie School of Nursing
Instructor of Nursing, 2011, B.S.N., M.S.N., D.N.P. (UAB)

Bangalore, Purushotham College of Arts and Sciences
Department of Computer and Information Sciences, Associate Professor; Graduate Program Director Computer and Information Sciences, 2003, B.E. (Bangalore-India), M.S., Ph.D. (Mississippi State)

Barber, Stephanie School of Nursing
Instructor of Nursing, 2011, B.S.N. (Central Florida); M.S.N. (UAB)

Barnard, Anthony C. College of Arts and Sciences

Barrett, Doug College of Arts and Sciences
Department of Art History, Assistant Professor of Art, 2008, B.F.A. (Central Florida), M.F.A. (Florida)

Barstow, Elizabeth A. School of Health Professions
Department of Occupational Therapy, Assistant Professor (Occupational Therapy), Ph.D., OTR/L, Low-Vision Rehabilitation, Neurodevelopmental Intervention, Functional Capacity Evaluations, Driver’s Assessment

Bartolucci, Alfred A. School of Public Health
Department of Biostatistics, Professor Emeritus, Ph.D. (SUNY, Buffalo), Clinical Trials, Survival Analysis, Bayesian Statistics, Longitudinal Data Analysis.

Basilico, David Anthony College of Arts and Sciences
Department of English, Associate Professor of English; Director, Linguistics Program, 1993, B.A. (Brown), Ph.D. (Arizona)

Bauldry, Shawn College of Arts and Sciences
Department of Sociology, Assistant Professor of Sociology, 2013, B.A. (Wake Forest), M.A. (U. Washington), M.S. (UNC Chapel Hill), Ph.D. (UNC Chapel Hill)

Baulos, Doug College of Arts and Sciences
Department of Art History, Assistant Professor of Art, 2003, B.F.A. (UAB), M.F.A. (New Orleans)

Bauman, Robert P. College of Arts and Sciences
Department of Physics, Professor Emeritus of Physics, 1967, B.S., M.S. (Purdue), Ph.D. (Pittsburgh)

Beard, Craig W. Mervyn H. Sterne Library
Mervyn H. Sterne Library, Associate Librarian, Reference Services; Mervyn H. Sterne Library, 1990, B.A. (Harding), M.A.R. (Harding Graduate School of Religion), M.L.S. (Florida State)

Beasley, Timothy Mark School of Public Health
Department of Biostatistics, Associate Professor, Ph.D. (Southern Illinois University - Carbondale), Linear Models, Linkage and Association with Quantitative Traits, Nonparametric Methods, Microarray Analysis.

Becker, Brooke A. Mervyn H. Sterne Library

Becker, David J. School of Public Health Department of Health Care Organization and Policy, PhD, Professor

Bej, Asim K. College of Arts and Sciences Department of Biology, Professor of Biology, 1991, B.S., M.Sc. (Calcutta), Ph.D. (Louisville), Molecular Genetics and Genomics of Pathogens and Extremophiles

Bellis, Peter College of Arts and Sciences Department of English, Professor of English; Chair, Department of English, 2007, B.A. (Amherst), M.A. (Texas-Austin), M.A., Ph.D. (Johns Hopkins)

Benditt, Theodore M. College of Arts and Sciences Department of Philosophy, Professor of Philosophy, 1978, B.A., J.D., M.A. (Pennsylvania), Ph.D. (Pittsburgh)

Berner, Eta School of Health Professions Department of Administration Health Services, Professor (Health Informatics), Evaluation of Clinical Decision Support Systems and Other Health Information Technologies

Berry, Joel L. School of Engineering Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 2010, B.S., B.S.M.E., M.S.M.E. (UAB), Ph.D. (Wake Forest), Cardiovascular biomechanics and tissue engineering

Bethard, Steven J. College of Arts and Sciences Department of Computer and Information Sciences, Assistant Professor of Computer and Information Sciences, 2013, B.A., B.S. (Arizona), Ph.D. (Colorado)

Betros, Cecil College of Arts and Sciences Department of Communication Studies, Instructor of Communication Studies, 2007, B.S., M.S. (University of Montevallo), D.Sc. (Columbia Pacific)

Biasini, Fred J. College of Arts and Sciences Department of Psychology, Associate Professor of Psychology, Director, Developmental Psychology Doctoral Program, 1983, B.A., M.S., (St. Vincent), Ph.D. (Alabama)

Bickel, C. Scott School of Health Professions Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Skeletal Muscle Function, Electrotherapeutics

Bidez, Martha Warren School of Engineering Department of Biomedical Engineering, Professor of Engineering; Director, E-Learning and Professional Studies; Director, Advanced Safety Engineering and Management Program, 2010, B.S. (Auburn), B.S.M.E. (UAB), Ph.D. (UAB)

Biga, Peggy College of Arts and Sciences Department of Biology, Assistant Professor of Biology, 2012, B.S., M.S. (Angelo State), Ph.D. (Idaho), Physiology and Developmental Biology

Blaudeau, Tamilane E. School of Education Department of Human Studies, Assistant Research Professor of Exercise Physiology, 2006, B.S., M.A. (UAB), Ph.D. (University of Alabama)

Block, Velinda School of Nursing Assistant Dean for Health System Affairs, 2011, B.S.N. (Medical College of Georgia), M.S.N. (Vanderbilt), D.N.P. (UAB)

Blokh, Alexander College of Arts and Sciences Department of Mathematics, Professor of Mathematics, 1992, Ph.D. (Kharkov State), Dynamical Systems


Bodin, Mary Beth School of Nursing Assistant Professor of Nursing, 2004, B.S. (West Alabama), B.S.N., M.S.N., D.N.P. (UAB)

Boggiano, Mary M. College of Arts and Sciences Department of Psychology, Associate Professor of Psychology, 2000, B.A., M.A., Ph.D. (Texas at El-Paso)

Bokobza, Serge College of Arts and Sciences Department of Foreign Language and Literature, Associate Professor of French; Chair, Foreign Language and Literature, 1980, Licence-ès-Lettres, Maîtrise-ès-Lettres (Paris-X: Nanterre), M.A., Ph.D. (Illinois)

Bolus, Norman E. School of Health Professions Department of Clinical and Diagnostic Sciences, Assistant Professor and Program Director, Nuclear Medicine Technology Program, 1999, M.P.H. (UAB)

Bond, Margaret D. College of Arts and Sciences Department of Foreign Language and Literature, Instructor of French, 2009, B.A. (Virginia), B.A., M.A. (UAB)

Borry, Erin L. College of Arts and Sciences Department of Public Administration, Assistant Professor (Government), 2013, B.A., M.P.A. (Rutgers), Ph.D. (Kansas)
<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>Department</th>
<th>Position/Title</th>
<th>Education/Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowen, David M.</td>
<td>School of Health Professions</td>
<td>Department of Health Informatics, Adjunct Professor (Health Services Administration)</td>
<td>Bowen, Pamela, Assistant Professor of Nursing, 2005, B.S.N. (UAB), B.A. (Faulkner), M.S.N., Ph.D. (UAB)</td>
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<tr>
<td>Boyar, Scott L.</td>
<td>School of Business</td>
<td>Department of Management, Information Systems, and Quantitative Methods, Professor of Management, 2009, B.S. (Keene State College), M.B.A. (University of San Diego), Ph.D. (Mississippi State)</td>
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<tr>
<td>Boylan, Douglas M.</td>
<td>School of Engineering</td>
<td>Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2005, B.S., M.S., Ph.D. (Tulane)</td>
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<tr>
<td>Brande, Scott</td>
<td>College of Arts and Sciences</td>
<td>Department of Chemistry, Associate Professor of Chemistry, 1979, B.S. (Rochester), M.S. (California Institute of Technology), Ph.D. (SUNY-Stony Brook)</td>
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<tr>
<td>Braswell, Mary</td>
<td>College of Arts and Sciences</td>
<td>Department of English, Professor of English, 1969, B.A., M.A. (Alabama), Ph.D. (Emory)</td>
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<tr>
<td>Braziel, James</td>
<td>College of Arts and Sciences</td>
<td>Department of English, Assistant Professor of English; Co-Director, Creative Writing Program, 2010, B.A. (Georgia), M.F.A (Bowling Green State)</td>
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<tr>
<td>Britt, Sylvia E.</td>
<td>School of Nursing</td>
<td>Assistant Professor of Nursing, 2007, B.S.N. (Medical College of Georgia), M.S.N., D.S.N. (UAB)</td>
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<tr>
<td>Brock, Joanne</td>
<td>School of Health Professions</td>
<td>Department of Clinical and Diagnostic Sciences, Assistant Professor, M.S.</td>
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<tr>
<td>Brooks, Amy</td>
<td>School of Nursing</td>
<td>Instructor of Nursing; Coordinator of AMNP program, 2009, B.S.N., M.S.N., D.N.P. (UAB)</td>
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<tr>
<td>Brooks, Michael</td>
<td>School of Education</td>
<td>Department of Human Studies, Assistant Professor of Counseling, 2004, B.A. (Morehouse College), M.A. (Central Florida), Ph.D. (Central Florida)</td>
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<tr>
<td>Brouillette, Christie G.</td>
<td>College of Arts and Sciences</td>
<td>Department of Chemistry, Emeritus Research Professor of Chemistry, 2006, B.S. (West Florida), Ph.D. (Kansas)</td>
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<tr>
<td>Brouillette, Wayne J.</td>
<td>College of Arts and Sciences</td>
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<tr>
<td>Brown, Kathleen</td>
<td>School of Nursing</td>
<td>Chair, Community Health, Outcomes and Systems; Professor of Nursing, 1979, B.S.N. (Louisiana State), M.S. (Boston), Ph.D. (Case Western Reserve)</td>
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<tr>
<td>Brown, Michelle</td>
<td>School of Health Professions</td>
<td>Department of Clinical and Diagnostic Sciences, Assistant Professor, 2008, M.S. (UAB)</td>
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<tr>
<td>Bryant, Pamela</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)</td>
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<tr>
<td>Burke, Darrell</td>
<td>School of Health Professions</td>
<td>Department of Health Administration, Associate Professor (Health Services Administration), Operations Management, Health Informatics; Quality Improvement; IT Management</td>
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<tr>
<td>Burns, Joseph C.</td>
<td>School of Education</td>
<td>Department of Curriculum and Instruction, Associate Professor of Elementary and High School Education, 1984, B.S. (Grove City), M.Ed., Ed.D. (Georgia)</td>
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<tr>
<td>Burns, Richard M.</td>
<td>School of Business</td>
<td>Department of Accounting and Finance, Professor of Finance, 1987, B.S. (Alabama), M.B.A. (UBA), Ph.D. (Georgia)</td>
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<tr>
<td>Calhoun, Charles</td>
<td>School of Education</td>
<td>Department of Curriculum and Instruction, Associate Professor of Elementary Education, 1989, B.A. (Earlham), M.A.Ed., Ph.D. (Georgia State)</td>
<td></td>
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<tr>
<td>Callahan, Dale</td>
<td>School of Engineering</td>
<td>Department of Electrical and Computer Engineering, Associate Professor of Electrical and Computer Engineering; Director, Information Engineering and Management, 2000, B.E.E. (Auburn), M.B.A. (Auburn-Montgomery), M.S.E.E. (UAB), Ph.D. (Alabama), P.E. (Alabama), Entrepreneurship, Innovation and Social Media</td>
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<tr>
<td>Camata, Renato</td>
<td>College of Arts and Sciences</td>
<td>Department of Physics, Associate Professor of Physics, 2000, B.S. (Universidade de São Paulo), M.S., Ph.D. (Caltech), Aerosol processes in nanomaterials fabrication; nanostructured materials; laser synthesis and properties of semiconductor, electroceramic and bioceramic thin films</td>
<td></td>
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</tr>
<tr>
<td>Camp, Sherman V.</td>
<td>College of Arts and Sciences</td>
<td>Department of English, Instructor of English, 2006, B.S. (Alabama), M.A. (UAB)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cannon, Joseph J.  
College of Arts Science  
Department of Theatre, Assistant Professor of Theatre, 2004, B.A. (UAB), M.F.A. (Arizona)

Carlito, Delores  
Mervyn H. Sterne Library  

Carpenter, Randy  
School of Health Professions  
Department of Health Informatics, M.S.H.I., Adjunct Professor (Health Services Administration)

Carson, April  
School of Public Health  
Department of Epidemiology, Assistant Professor (Epidemiology); Cardiovascular Epidemiology, Diabetes Epidemiology, Health Disparities

Caruthers, Kara  
School of Health Professions  
Department of Surgical Physician Assistant Studies, Assistant Professor; Emergency Medicine

Carver, Pam  
School of Nursing  
Instructor of Nursing, 1990, M.Ac., B.S.N., M.S.N. (UAB)

Casazza, Krista  
School of Health Professions  
Department of Nutrition Sciences, PhD, RD Assistant Professor (Nutrition Sciences); Resource partitioning during critical periods of growth and development with primary focus on the bone-fat interface.

Cash, Julie  
School of Nursing  
Instructor of Nursing, 2009, B.S.N. (Clemson), M.S.N. (Medical College of Georgia)

Catledge, Shane A.  
College of Arts and Sciences  
Department of Physics, Assistant Professor of Physics, 2004, B.S. (California State –Sacramento), Ph.D. (UAB), Synthesis and properties of nanostructured super-hard materials; chemical vapor deposition (CVD) of diamond films and novel nanostructured coatings for industrial cutting and biomedical implant applications; molecular sensing using fluorescent nanodiamond; mechanical properties

Catron, Kelly  
School of Nursing  
Instructor of Nursing, 2010, B.S.N., M.S.N. (UAB)

Centeno, María Jesús  
College of Arts and Sciences  
Department of Foreign Language and Literature, Instructor of Spanish, 2006, B.A. (Universidad Autónoma de Madrid), M.A. (Georgia)

Chambless, Krista  
College of Arts and Sciences  
Department of Foreign Language and Literature, Visiting Assistant Professor of Spanish, 2006, B.A., M.A., Ph.D. (Alabama)

Chamot, Eric  
School of Public Health  
Department of Epidemiology, Assistant Professor (Epidemiology); Infectious Disease Epidemiology, Screening, International Health and Global Studies

Chandler-Laney, Paula  
School of Health Professions  
Department of Nutrition Sciences, PhD Assistant Professor (Nutrition Sciences); Use of behavioral and/or psychological parameters to predict success in weight loss and maintenance programs; the association between satiety hormones and subjective responses; and an investigation of childhood body composition and metabolic health consequences of intrauterine exposure to gestational diabetes and maternal obesity

Chang, Pi-Ling  
School of Health Professions  
Department of Nutrition Sciences, PhD, Associate Professor (Nutrition Sciences); Vitamin D and Cancer, Osteoporosis, Bone-Matrix Proteins, Osteoblast Differentiation

Chapman, Alison  
College of Arts and Sciences  
Department of English, Associate Professor of English; Director, Undergraduate Studies, 2000, B.A. (Davidson), M.A., Ph.D. (Pennsylvania)

Chapman, Gary H.  
College of Arts and Sciences  
Department of Art Art History, Professor of Art, 1990, B.S., B.A. (Berea), M.F.A. ( Cranbrook Academy)

Chawla, Krishan Kumar  
School of Engineering  
Department of Materials Science and Engineering, Professor Emeritus of Materials Science and Engineering, 1998, B.S. (Banaras Hindu, India), M.S., Ph.D. ( Illinois, Urbana-Champaign), Metal, Ceramic, and Polymer Matrix Composite Materials; Fibers; Foams

Chen, Dongquan  
School of Health Professions  
Department of Health Informatics, Ph.D., Research Assistant Professor (Health Services Administration)

Cheng, Chih-Hsiung  
School of Engineering  
Department of Mechanical Engineering, Associate Professor of Mechanical Engineering, 2001, B.S. (Tamkang University, Taiwan), M.S., Ph.D. (Kansas), Multi-Phase Chemically Reacting Flows; Multi-Scale (Atomistic-to-Continuum) Numerical Simulations; High-Order Numerical Algorithms for Unsteady Flow Computations

Cheong, JeeWon  
School of Public Health  
Department of Health Behavior, Assistant Professor

Chernov, Nikolai  
College of Arts and Sciences  
Department of Mathematics, Professor of Mathematics, 1994, M.S., Ph.D. (Moscow State, Russia), Dynamical Systems, Ergodic Theory

Chiasera, Janelle  
School of Health Professions
Department of Clinical and Diagnostic Sciences, Associate Professor, 2006, Ph.D. (Ohio State)

Childs, Gwendolyn  
School of Nursing  
Assistant Professor of Nursing, 2007, B.S.N. (Landers), M.S.N. (Medical College of Georgia), Ph.D. (South Carolina)

Cho, June  
School of Nursing  
Assistant Professor of Nursing, 2008, B.S.N. (Catholic), M.S.N. (Yonsei), Ph.D. (North Carolina, Chapel Hill)

Cho, Won  
College of Arts and Sciences  
Department of Music, Assistant Professor of Music, 2011, B.M. (Manhattan), M.M. (Boston), D.M.A. (Memphis)

Christensen, Lois M.  
School of Education  
Department of Curriculum and Instruction, Professor of Early Childhood and Elementary Education, 1996, B.A., M.A.Ed. (Arizona State), Ph.D. (Texas AM)

Christian, Becky J.  
School of Nursing  
Professor of Nursing, 2009, B.S.N., M.S.N. (Missouri), Ph.D. (Texas)

Christy, Jennifer Braswell  
School of Health Professions  
Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Pediatrics; Vestibular Dysfunction

Clair, Jeffrey Michael  
College of Arts and Sciences  
Department of Sociology, Associate Professor of Sociology, 1989, B.A., M.A. (San Diego); Ph.D. (Louisiana State)

Clark, Diane  
School of Health Professions  
Health Focused Patient/Client Management for Physical and Occupational Therapists, PT, DScPT, MBA, Assistant Professor of Physical Therapy

Clavell, Alicia  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Visiting Instructor in Business Communications, 2011, B.A. (Berry College), M.A. (UAB)

Clay, Olivio  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, 2007, B.S., M.A., Ph.D. (UAB)

Clelland, Jo Ann  
School of Health Professions  
Department of Physical Therapy, Professor Emerita (Physical Therapy); Pain Management

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School of Health Professions  
Department of Health Services Administration, Associate Professor and Program Director, Health Information Management Program, 2004, M.A. (UAB)

Cockerham, William C.  
College of Arts and Sciences  
Department of Sociology, Distinguished Professor of Sociology; Chair, Department of Sociology; Professor of Medicine; Co-Director, Center for Social Medicine and STDs, 1991, B.A. (Oklahoma), M.A., Ph.D. (California-Berkeley)

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School of Public Health  
Department of Biostatistics, Ph.D. (Virginia Commonwealth), Associate Professor. Mixed-Effects Models, Clinical Trial Design, Management, and Analysis, Out-of-Hospital Cardiac Arrest and Resuscitation.

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School of Education  
Department of Human Studies, Associate Professor of Educational Leadership, 2000, B.S., M.A., Ed.D. (Mississippi State)

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College of Arts and Sciences  
Department of History, Professor of History; Chair, Department of History, 1985, B.A. (Duke), M.A. (Chicago), Ph.D. (Duke)

Conner, David A.  
School of Engineering  

Cook, Edwin  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, Director, Medical/Clinical Psychology Doctoral Program, 1986, B.S. (Pennsylvania), M.S., Ph.D. (Wisconsin)

Cook, Masako  
College of Arts and Sciences  
Department of Foreign Language and Literature, Instructor of Japanese, 2007, B.A. (Kanto Gakuin, Japan)

Coombs, David  
School of Public Health  
Department of Health Education and Health Promotion, Associate Professor Emeritus, SOPH Health Behavior

Copes, J. Heith  
College of Arts and Sciences  
Department of Justice Sciences, Associate Professor and Director, Master of Science in Criminal Justice Program, 2001, B.S. (Southwestern Louisiana), M.A., Ph.D., (Tennessee), Qualitative Methods, Criminal Decision Making, White Collar Crime, Policing

Corbetta, Renato  
College of Arts and Sciences  
Department of Government, Associate Professor of Government, 2005, B.A., M.A. (Portland State), Ph.D. (Arizona)

Corley, Robert G.  
College of Arts and Sciences  
Department of History, Assistant Professor of History, 1993, B.A. (Birmingham-Southern), M.A., Ph.D. (Virginia)
Cormier, Loretta  
Department of Anthropology, Associate Professor of Anthropology, 2000, B.S. (Florida), M.A. (UAB), Ph.D. (Tulane)

Cowart, Larry  
Department of Accounting and Finance, Assistant Professor of Finance, 2007, B.S. (Athens), M.B.A. (Samford), Ph.D. (Georgia)

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Department of Administration Health Services, Associate Professor (Management): Strategy, Entrepreneurship, Corporate Social Responsibility and Business Ethics, Organizational Behavior, and Constraint Management

Cranco, Derek A.  
Department of Art History, Associate Professor of Art, 1999, B.F.A. (Louisiana State), M.F.A. (Syracuse)

Crawford, Martin  
Department of Mechanical Engineering, Professor Emeritus of Mechanical Engineering, 1968, B.S., M.S. (Tennessee), Ph.D. (Georgia Institute of Technology), P.E. (Alabama)

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Department of Management, Information Systems, and Quantitative Methods, Instructor of Information Systems, 2004, B.S. (Auburn); B.S., M.S. (UAB)

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Instructor of Nursing, 2011, B.S.N. (Catholic University of America), M.S.N. (Case Western Reserve), D.N.P. (UAB)

Crowe, Michael  
Department of Psychology, Associate Professor of Psychology, Assistant Director of the Center for Research on Applied Gerontology, 2006, B.S. (Illinois), M.A., Ph.D. (Southern California)

Cuevas, Eugene  

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Department of Marketing, Industrial Distribution, Economics, Associate Professor of Economics, 1993, B.S., M.A., Ph.D. (Houston)

Cummins, Cathleen A.  
Department of Art History, Associate Professor of Art History, 2006, B.A. (Mills College), M.A. (University of London), M.A. and Ph.D. (Ohio State)

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Department of Occupational Therapy, Assistant Professor (Occupational Therapy), Academic Coordinator of Fieldwork Education, MSOT, OTR/L, Mental Health, Pediatrics, Burns and Trauma

Cusic, Anne M.  
Department of Biology, Associate Professor of Biology, 1988, B.S. (UAB), M.S. (Samford), Ph.D. (UAB), General Biology and Reproductive Biology

Cutter, Gary  
Department of Biostatistics, Ph.D. (Texas Health Science Center - Houston), Professor and Head of the Section on Research Methods and Clinical Trials, Clinical Trials and Community Studies Trial Analyses, Chronic Disease Epidemiology, Large Scale Data Bases, Multiple Sclerosis, Myasthenia Gravis and Neonatal Trials, Behavioral Studies.

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Department of Curriculum and Instruction, Associate Professor of Special Education, 1999, B.S. (James Madison), M.S. (Radford), Ed.D. (Virginia Tech)

Dailey, Kelly  
Instructor of Nursing, 2012, B.S.N. (Samford), M.S.N. (UAB)

Dale, Louis  
Department of Mathematics, Professor of Mathematics; Vice President for Equity and Diversity, 1973, B.A. (Miles), M.S. (Atlanta), Ph.D. (Alabama), Ring Theory

Dallow, Jessica  
Department of Art History, Associate Professor of Art History, 2002, B.A. (San Diego), M.A., Ph.D. (Southern California)

Daniels, Melissa  
Department of English, Professor of English, 2013, B.A. (University of La Verne), M.A. (Georgia), Ph.D. (Emory)

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Department of Foreign Language and Literature, Associate Professor of French; Associate Dean of Academic Affairs, College of Arts and Sciences, 1990, Licence-ès-Lettres, Maîtrise-ès-Lettres (Sorbonne), M.A., Ph.D. (Michigan State)

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Department of Marketing, Industrial Distribution, Economics, Associate Professor of Economics, 1990, B.A., M.A. (Calcutta), M.A., Ph.D. (Southern Methodist)

Davey, Kimberly S.  
Instructor of Nursing, 2008, B.A., B.S., M.B.A. (Samford), M.A. (Seton Hall)
Davis, Colin J.  

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Department of Sociology, Assistant Professor of Sociology, 2014, B.A. (University of Texas-Austin), M.A., Ph.D. (University of North Carolina-Chapel Hill)

Dawson, Martha  
Assistant Professor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

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Department of Biostatistics, Ph.D. (University of Wisconsin-Madison). Assistant Professor, Section on Statistical Genetics. Quantitative Genetics, Statistical Learning and Prediction, Semi-parametric and Bayesian Methods.

De Luca, Maria  
Department of Nutrition Sciences, PhD Associate Professor (Nutrition Sciences); Genetics of fat storage and innate immune function, Obesity, Aging.

Dean, Derrick R.  
Department of Materials Science and Engineering, Associate Professor of Materials Science and Engineering, 2004, B.S., M.S. (Tuskegee), Ph.D. (Illinois, Urbana-Champaign), Structure-Property Relationships of Polymers and Multiphase Polymer Systems, including Blends; Nano- and Micro-Composites

DeCarlo, Thomas E.  
Department of Marketing, Industrial Distribution, Economics, Professor of Marketing and Industrial Distribution, 2007, B.S. (N. Carolina State), Ph.D. (Georgia)

Delzell, Elizabeth  
Department of Epidemiology, Professor (Epidemiology); Occupational Epidemiology, Chronic Disease Epidemiology, Cancer Epidemiology, Pharmacoepidemiology

Demark-Wahnefried, Wendy  
Department of Nutrition Sciences, Phd, RD Professor and Webb Endowed Chair of Nutrition Sciences; diet/hormonal/genetic interactions and their association with cancer; dietary interventions and lifestyle for cancer prevention and survival

Demshuk, Andrew T.  
Department of History, Assistant Professor of History, 2011, B.A. (Aquinas College), M.A. (Marquette), Ph.D. (Illinois-Urbana)

Denton, Betty G.  
Department of Physical Therapy, Associate Professor Emerita (Physical Therapy); Curriculum Development

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Department of Sociology, Associate Professor of Sociology, 1999, B.A. (Wisconsin), M.A., Ph.D. (Ohio State)

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Department of Occupational Therapy, Department Chair and Professor, Ph.D., OTR/L, FAOTA

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Instructor of Nursing, 2006, B.S.N, M.S.N. (Samford)

Dunbar, Jessie  
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Department of English, Assistant Professor of English, 2013, B.A. (Clark Atlant University), M.A. (Georgia), Ph.D. (Emory)

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Department of Health Care Organization and Policy, PhD, Professor of Management and University Scholar Emeritus

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Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering; Assistant Dean for Undergraduate Programs, 1999, B.S., M.S., Ph.D. (UAB)

Earwood, Martha  
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Department of Justice Sciences, Teaching Assistant Professor and Director of Undergraduate Studies, 2003, B.S., M.S. (Georgia State), Corrections, Victimology, Restorative Justice, Experiential Learning.

Eberhardt, Alan  
School of Engineering  
Department of Biomedical Engineering, Professor of Biomedical Engineering, Associate Dean, School of Engineering, 1991, B.S., M.S. (Delaware), Ph.D. (Northwestern), Solid Mechanics, Injury Biomechanics, Biomedical Implants, Analytical and Numerical Methods in Biomechanics

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Department of Occupational Therapy, Assistant Professor (Occupational Therapy), MSOT, OTR/L

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Department of Accounting and Finance, Assistant Professor of Accounting, 2013, B.S. (Birmingham-Southern), M.Acc. (Virginia Tech), Ph.D. (Virginia Tech)

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School of Nursing  
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Ellis, Cassandra  
College of Arts and Sciences  
Department of English, Assistant Professor of English, 2002, A.B. (Syracuse), M.A., Ph.D. (Columbia)

Emfinger, Kay  
School of Education  
Department of Curriculum and Instruction, Associate Professor of Early Childhood and Elementary Education, 2003, B.S., M.A.Ed. (Auburn), Ph.D. (UAB)

Enah, Comfort  
School of Nursing  
Assistant Professor of Nursing, 2009, B.S.N. (Berea College), M.S.N., Ph.D. (Cincinnati)

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Department of Curriculum and Instruction, Associate Professor of Early Childhood and Elementary Education, 2010, B.A. (The University of Exeter, Exeter, England), M.A.Ed. (Louisiana State), Ph.D. (UAB)

Ertas, Nevbahar  
College of Arts and Sciences  
Department of Government, Assistant Professor of Government, 2009, B.S., M.S. (METU, Ankara), Ph.D. (Georgia State and Georgia Institute of Technology)

Esposito, Richard A.  
School of Engineering  
Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2011, B.S. (Auburn), M.S. (Auburn; Samford), Ph.D. (UAB), P.G. (Alabama, Georgia, Florida, Mississippi, Tennessee), Carbon Dioxide Sequestration; Power Generation

Evans, Retta  
School of Education  
Department of Human Studies , Associate Professor of Health Education, 2003, B.S., (Fort Hays), M.S. (Northeastern), Ph.D. (Arkansas)

Faki, Belita  
College of Arts and Sciences  
Department of Foreign Language and Literature, Instructor of Spanish, 2005, B.A. (Cornell), M.A. (Middlebury)

Fambrough, R. Eugene  
College of Arts and Sciences  
Department of Music, Assistant Professor of Music, 2001, B.M. (Georgia), M.M. (East Carolina), D.M.A. (Alabama)
Fast, Vladimir G.  
School of Engineering  
Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 1997, Diploma in Physics (Moscow Institute), Ph.D. (Moscow Institute for Physics and Technology), Optical imaging of electrical and ionic activity in the heart mechanisms of cardiac arrhythmias and defibrillation

Fedorov, Vladimir V.  
College of Arts and Sciences  
Department of Physics, Research Assistant Professor of Physics, 2007, M.S. (Moscow Institute of Physics), Ph.D. (Russian Academy of Science), Physical and mathematical science; coherent and laser spectroscopic characterization of doped laser materials; solid-state lasers; laser spectroscopy for molecular-sensing applications

Feldman, Dale S.  
School of Engineering  
Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 1985, B.S. (Northwestern), M.S. (Dayton), Ph.D. (Clemson), Biomaterials, Soft-tissue biomechanics, Polymeric implants

Ferniani, I. William  
School of Health Professions  
Department of Health Administration, Professor (Health Services Administration), Governance, Strategic Planning, Leadership

Fidopiastis, Cali  
School of Health Professions  
Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Virtual Rehabilitation, Brain-Computer Interfaces, Tests and Measurements

Fiedler, Robin  
School of Education  
Department of Human Studies, Assistant Professor, 2008, Measurement, Educational Psychology, Educational Statistics

Fineberg, Naomi  
School of Public Health  
Department of Biostatistics, Ph.D. (Boston University), Research Professor and Chair. Small Medical Studies.

Fisher, Gordon  
School of Education  
Department of Human Studies, Assistant Professor, 2012, Exercise Physiology; Exercise/Nutrition, Mitochondrial Bioenergetics, Oxidative Stress, and Chronic Inflammation

Flammini, Steve  
School of Health Professions  
Department of Health Informatics, Credit Course Instructor (Health Services Administration)

Fleisig, Glenn S.  
School of Engineering  
Department of Biomedical Engineering, Adjunct Professor, 1997, B.S. (M.I.T), M.S. (Washington University), Ph.D. (UAB), Sports medicine

Fogger, Susanne  
School of Nursing  
Associate Professor of Nursing, 2010, B.S.N. (Wayland Baptist University), M.S.N., D.N.P. (South Alabama)

Foley, Robin D.  
School of Engineering  
Department of Materials Science and Engineering, Associate Professor of Materials Science and Engineering, 1990, B.S., M.S. (Illinois, Urbana-Champaign), Ph.D. (Wisconsin-Madison), Materials Characterization, Physical Metallurgy, Metals Casting

Fontaine, Kevin  
School of Public Health  
Department of Health Behavior, Professor

Forbes, Laura  
School of Education  
Department of Human Studies, Assistant Professor of Health Education, 2005, B.S. (Ball State), M.S. (Central Florida), Ph.D. (South Carolina)

Ford, Matthew  
School of Health Professions  
Department of Rehabilitation Sciences, Associate Professor (Physical Therapy); Motor Control Dysfunction

Forman, Michele  
College of Arts and Sciences  

Foster, E. Michael  
School of Public Health  
Department of Health Care Organization and Policy, PhD, Professor

Foster, Linda  
School of Education  
Department of Human Studies, Assistant Professor of Counseling, 2007, B.A. (Samford), M.A., E.d.S, (UAB) Ph.D. (Mississippi State)

Fouad, Fouad H.  
School of Engineering  
Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering; Chair, Department of Civil, Construction and Environmental Engineering; Associate Director, University Transportation Center for Alabama, 1981, B.S.C.E. (Alexandria, Egypt), M.S.C.E. (Texas), Ph.D. (Texas AM), P.E. (Alabama, Texas), Structural Engineering, Reinforced Concrete, Concrete Materials

Franklin, Frank A.  
School of Public Health  
Department of Health Education and Health Promotion, Professor Emeritus, SOPH Health Behavior

Franklin, Gregory A.  
School of Engineering  
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2007, B.S.E.E., M.S.E.E., Ph.D. (UAB), P.E. (Alabama), Power Line Communications, Power System Protection and Control, and Power System Modeling

Friday, R. David  
School of Health Professions  
Department of Health Informatics, M.S.H.I., Adjunct Instructor (Health Services Administration)

Friend, Edward M. III  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Assistant Professor of Business Law and Executive in Residence, 2005, B.A., J.D. (University of Alabama)
Fu, Richard  
School of Business  
Department of Accounting and Finance, Associate Professor of Finance, 2006, Ph.D. (Georgia Institute of Technology)

Fu, Yuchang  
School of Health Professions  
Department of Nutrition Sciences, PhD Associate Professor (Nutrition Sciences); Gene Expression and Regulation Related to Lipid Metabolism in Atherosclerosis and Diabetes

Gainey, Denise  
College of Arts and Sciences  
Department of Music, Associate Professor of Music, 2002, B.M.E. (Florida State), M.M. (North Texas), D.M.A. (Kentucky)

Gakumo, C. Ann  
School of Nursing  
Assistant Professor of Nursing, 2009, B.S.N. (Tuskegee), Ph.D. (UAB)

Galvin, Melissa  
School of Public Health  
Department of Health Education and Health Promotion, Professor, SOPH, Health Behavior

Gampher, J. Eric  
College of Arts and Sciences  
Department of Psychology, Assistant Professor of Psychology, 2008, B.S. (Florida State), Ph.D. (UAB)

Gao, Yi  
School of Engineering  
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2013, B.S., M.S. (Tsinghua University, Beijing) M.S., Ph.D. (Georgia Tech), Image Analysis, Cputer Vision, Shape Analysis, Medical Imaging and Bioinformatics

Gardner, Elizabeth A.  
College of Arts and Sciences  
Department of Justice Sciences, Associate Professor of Justice Sciences, 2007, B.S. (Penn State), PhD. (Michigan State), Drug Chemistry, Legal Highs, Laser Induced Breakdown Spectroscopy, Pharmaceutical Spam

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School of Education  
Department of Curriculum and Instruction, Professor of Special Education, 1982, B.A. (Hiram Scott), M.S. (Wisconsin-Milwaukee), Ph.D. (Wisconsin)

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School of Health Professions  
Department of Health Services Administration, Associate Professor, Health Information Management Program, 1990, M.P.A. (Roosevelt)

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School of Education  
Department of Human Studies, Professor of Health Education, 1993, B.S. (Tulane), M.A. (Loyola), Ed.D. (South Carolina)

Genau, Amber  
School of Engineering  
Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering, 2010, B.S., M.S. (Iowa State); Ph.D. (Northwestern), Solidification Microstructure Analysis, 3D Image Characterization

George, Remo  
School of Health Professions  
Department of Clinical and Diagnostic Sciences, Assistant Professor, Nuclear Medicine Technology Program, 2008, M.S. (Mahatma Gandhi University)

Ghanta, Vithal K.  
College of Arts and Sciences  
Department of Biology, Professor of Biology, 1971, B.S. (G.C.W. College), M.S. (Banaras Hinda), Ph.D. (Southern Illinois), Research Interest: Cancer Immunology, Cancer Immunology

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School of Nursing  
Instructor of Nursing, 2010, B.S.N., M.S.N. (Vanderbilt)

Gilchrist, Roger. L.  
College of Arts and Sciences  
Department of Biology, Associate Professor of Biology, 1999, B.S., M.S., Ph.D. (Wyoming), Human Anatomy and Physiology

Gilmer, Dianne  
School of Engineering  
Department of Civil, Construction, and Environmental Engineering, Instructor of Civil, Construction, and Environmental Engineering, 2009, B.S. (Samford), Meng-CEM (UAB), Engineering Online Education, Learning Management System Applications, Student Retention in Online Learning Programs

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School of Public Health  
Department of Health Care Organization and Policy, PhD, Professor

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Department of Curriculum and Instruction, Professor of Special Education, 1984, B.A. (Washington), M.S. (North Carolina State), Ph.D. (Missouri)

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Department of Health Informatics, M.S.H.A., Credit Course Instructor (Health Services Administration)

Goodin, Burel  
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Department of Psychology, Assistant Professor of Psychology and Anesthesiology, 2012, B.S. (Illinois College); M.A. (Boston University of Medicine); M.A., Ph.D (Maryland, Baltimore)

Gower, Barbara A.  
School of Health Professions  
Department of Nutrition Sciences, PhD Professor (Nutrition Sciences); Endocrinology, Body Composition, Postmenopausal Hormone Replacement Therapy, Insulin Sensitivity

Graham, Cecilia  
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Health Focused Patient/Client Management for Physical and Occupational Therapists, PT, PhD, Associate Professor of Physical Therapy

Granger, Wesley M.  
School of Health Professions
Department of Clinical and Diagnostic Sciences, Associate Professor and Program Director, Respiratory Therapy Program, 1996, Ph.D. (Medical College of Georgia)

Grant, Joan  School of Nursing
Professor of Nursing, 1980, B.S.N. (North Alabama), M.S.N., D.S.N. (UAB)

Grant, Terry  School of Business
Department of Accounting and Finance, Professor of Accounting, 2012, B.S. (Alabama), M.P.A. (Texas), Ph.D. (Florida)

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Instructor of Nursing, 2011, B.S.N. (Miami), M.S.N. (UAH)

Graveline, Jeffrey D.  Mervyn H. Sterne Library

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Department of Chemistry, Professor of Chemistry; Chair, Department of Chemistry, 2003, B.S., Ph.D. (UAB)

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Department of English, Associate Professor of English, 1976, B.S., M.A., Ph.D. (Auburn)

Gray, Gary M.  College of Arts and Sciences
Department of Chemistry, Professor of Chemistry, 1983, B.S., Ph.D. (Lehigh)

Gray, Richard A.  School of Engineering
Department of Biomedical Engineering, Adjunct, Associate Professor of Biomedical Engineering, 1997, B.S. (Bucknell), M.S., Ph.D. (Virginia), Cardiac electrophysiology

Green, David G.  School of Engineering
Department of Electrical and Computer Engineering, Instructional Associate Professor of Electrical and Computer Engineering, 1981, B.S.E., M.S.E (UAH), Collaborative Systems, Internet Applications, and Engineering Education

Greenwood, Rebecca  School of Nursing
Assistant Professor of Nursing, 2004, B.S.N (New Hampshire), M.S.N (Northeastern), Ph.D. (Boston College)

Griffin, A. Hayden  College of Arts and Sciences
Department of Justice Sciences, Associate Professor of Justice Sciences, 2013, J.D. (University of Richmond), Ph.D. (University of Florida), Corrections, Policy, Drugs and Society, Law and Society

Griffin, John A.  School of Engineering
Department of Materials Science and Engineering, Research Assistant Professor of Materials Science and Engineering, 2011, B.S.Mt.E., M.S.Mt.E. (UAB), Metals Casting, Testing and Characterization, Nondestructive Evaluation

Grimes, Gary J.  School of Health Professions
Department of Health Informatics, Ph.D., Professor (Electrical and Computer Engineering)

Grimes, John W.  College of Arts and Sciences
Department of Justice Sciences, Teaching Assistant Professor of Justice Sciences; Pre-Law Program Director, 2000, B.S. (UAB), J.D. (Cumberland), Intelligence Analytics, Military Law, Terrorism, Homeland Security

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Department of Health Informatics, M.A., Associate Professor (Health Services Administration)

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Department of Psychology, Assistant Professor of Psychology, 2003, B.S., M.A., Ph.D. (UAB)

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Gunther-Canada, Wendy A.  College of Arts and Sciences
Department of Government, Professor of Government; Chair, Department of Government, 1993, B.A. (Utah), M.A., Ph.D. (Rutgers)

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Department of Marketing, Industrial Distribution, Economics, Professor of Surgery; Professor of Marketing and Industrial Distribution; Spinal Surgery and Medical Equipment and Supplies Distribution, 2008, B.A. (Stanford), M.D. (Albany Medical College)

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Department of Health Administration, Assistant Professor (Health Services Administration); Medical Practice Management

Hall, Sean
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Department of Human Studies, Visiting Assistant Professor, 2012, Counselor Education, Clinical Mental Health Counseling, Assessment and Intervention Techniques, Processes and Outcomes Research, Dropout Prevention

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Hamilton, Sharon
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Department of Marketing, Industrial Distribution, and Economics, Assistant Professor of Marketing, 2009, B.S., M.B.A. (Troy), Ph.D. (Alabama)

Haque, Akhlaque
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Department of Government, Associate Professor of Government 1995, 1995, B.S. (Dhaka), M.A., Ph.D. (Cleveland State)

Hardin, J. Michael
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Professor and Dean of Nursing, 2005, B.S.N. (Cornell), M.S.N. (Catholic), Ph.D. (Maryland)

Harreison, Paul M.
School of Health Professions
Department of Surgical Physician Assistant Studies, Assistant Professor, Associate Program Director; Pain Management

Harris, Linda S.
Mervyn H. Sterne Library
Mervyn H. Sterne Library, Associate Librarian: Head, Reference Services, Mervyn H. Sterne Library, 1984, B.A. (Stillman), M.S.L.S. (Atlanta)

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Instructor of Nursing, 2011, B.S.N. (Samford), M.S.N. (UAB)

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College of Arts and Sciences
Department of Physics, Associate Professor of Physics, 1986, B.S. (Texas AM), M.S., Ph.D. (Wisconsin - Madison), Solid-state theory; atomic and molecular physics; MRI modeling; chemical kinetics; simulation of nonparticle-facilitated hyperthermia

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Heaton, Karen
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<table>
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<tr>
<th>Name</th>
<th>School/College</th>
<th>Department/Program</th>
<th>Specializations/Notes</th>
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<tr>
<td>Hendricks, Peter</td>
<td>School of Public Health</td>
<td>Department of Health Education and Health Promotion, Assistant Professor, SOPH, Health Behavior</td>
<td></td>
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<tr>
<td>Hernandez, S. Robert</td>
<td>School of Health Professions</td>
<td>Department of Administration Health Services, Dr.P.H. (Professor and Director) Doctoral Program in Administration-Health Services for the School of Health Professions, Strategic Planning for Health Care Organizations, Health Care Organization Theory, Human Resources Management</td>
<td></td>
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<tr>
<td>Herzig, Terrell W.</td>
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<td>Department of Health Informatics, M.S.H.I., Credit Course Instructor (Health Services Administration)</td>
<td></td>
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<tr>
<td>Hess, Annette</td>
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<tr>
<td>Hester, Donna J.</td>
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<tr>
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<td>College of Arts and Sciences</td>
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<tr>
<td>Hiett, Tee H.</td>
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<td>Department of Administration Health Services, Professor Emeritus (Health Services Administration); Health Care Computer Applications, Data Processing in Health Care</td>
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<tr>
<td>Hill, Aubrey</td>
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<td>Department of Computer and Information Sciences, Research Assistant Professor of Computer and Information Sciences, 2000, M.S. (Mississippi State), M.S. (Jackson State), Ph.D. (UAB)</td>
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<td>Hill, Gail</td>
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<td>Associate Professor of Nursing, 1984, B.S. (Alabama), B.S.N., M.S. (Texas Woman’s University), Ph.D. (UAB)</td>
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<tr>
<td>Hilton, David</td>
<td>College of Arts and Sciences</td>
<td>Department of Physics, Associate Professor of Physics, 2007, B.S., M.S. (Rochester), M.S., Ph.D. (Cornell), Ultrafast spectroscopy and ultrashort pulse generations; ultrafast terahertz spectroscopy; correlated electron materials; superconductivity; high-magnetic field spectroscopy; magnetic semiconductors; complex functional nanomaterials; materials in extreme environments</td>
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<tr>
<td>Hitchcock, Laurel</td>
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<td>Department of Social Work, Assistant Professor of Social Work, 2013, B.A. (Wisconsin-Madison), M.P.H. (UAB), M.S.W. (Alabama), Ph.D. (Alabama)</td>
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<tr>
<td>Hitchcock, Wilbur A.</td>
<td>School of Engineering</td>
<td>Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering; Director of Construction Engineering Management Program, 2005, B.S. (U.S. Military Academy), M.E.C.E., Ph.D. (Texas AM), Engineering Online Education, Sustainable Structural Design Advances, Infrastructure Resilience</td>
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<td>Hites, Lisle</td>
<td>School of Public Health</td>
<td>Department of Health Care Organization and Policy, PhD, Assistant Professor</td>
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<td>Hodges, Ashley</td>
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<td>Assistant Professor of Nursing; Interim Assistant Dean for Graduate Clinical Programs, 2009, B.S.N. (Alabama), M.A. (Seton Hall), M.S.N., Ph.D. (UAB)</td>
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<tr>
<td>Holcomb, Lygia</td>
<td>School of Nursing</td>
<td>Associate Professor of Nursing, 2006, B.S.N., M.S. (Missouri), D.S.N. (UAB)</td>
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<tr>
<td>Holloway, Stacey</td>
<td>College of Arts and Sciences</td>
<td>Department of Art History, Visiting Assistant Professor of Art, 2009, B.F.A (Purdue), M.F.A. (Minnesota-Twin Cities)</td>
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<tr>
<td>Holmes, Robert E.</td>
<td>School of Health Professions</td>
<td>Department of Administration Health Services, Professor (Management); Business Education and Reform, Entrepreneurship, Strategic Management</td>
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<tr>
<td>Holt, R. Lynn</td>
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<td>Department of Genetic Counseling, MS, CGC, Program Director and Assistant Professor</td>
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<tr>
<td>Hood, Anthony</td>
<td>School of Business</td>
<td>Department of Management, Information Systems, and Quantitative Methods, Assistant Professor, 2011, B.S., M.S. (UAB), Ph.D. (UAB)</td>
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<td>Hopkins, Maria</td>
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<td>Department of Psychology, Assistant Professor of Psychology, Director, Undergraduate Studies of Psychology, 2007, B.S., M.A., Ph.D. (UAB)</td>
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</table>
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Department of Electrical and Computer Engineering, Professor of Electrical and Computer Engineering, 1984, B.S.E., M.S.E. (UAB), Ph.D. (Auburn), Sensor Networks, Biomedical Instrumentation and Control Systems

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Department of Materials Science and Engineering, Professor of Materials Science and Engineering; Associate Provost for Assessment and Accreditation, 1990, B.S., M.S., Ph.D. (Michigan Technological), X-Ray Diffraction, Composite Materials, Physical Metallurgy, Structure-Processing-Property Relationships
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Department of Music, Professor of Music; Artist in Residence, 2002, B.M. (Music College of Moscow Conservatory), M.M., D.M.A. (Moscow State Conservatory)

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Department of Biomedical Engineering, Adjunct Assistant Professor, 2012, B.S.B.M.E. (Louisiana Tech), M.S.B.M.E. (Case Western Reserve), M.B.A. (Minnesota), Ph.D. (Case Western Reserve), Remote disease monitoring and prediction, Cardiac electrophysiology

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Department of Physics, Associate Professor of Physics, 1991, B.S., M.S., Ph.D. (Waseda, Japan), Condensed-matter theory; biophysics theory; materials physics theory; computational physics; open quantum systems

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Health Focused Patient/Client Management for Physical and Occupational Therapists, PhD, RD, Assistant Professor of Nutrition Sciences

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Department of Physics, Professor of Physics, 1993, B.S. (Oklahoma State), M.S. (Colorado), Ph.D. (Oklahoma State), Nonlinear optics; fiber optics; optical sensors; optical coherence imaging tomography; laser spectroscopy

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Health Focused Patient/Client Management for Physical and Occupational Therapists, PT, PhD, Assistant Professor of Physical Therapy

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Department of Biomedical Engineering, Professor of Biomaterials; Professor of Surgery; Division Director, Orthopaedic Laboratory Research; Professor of Biomedical and Materials Engineering, 1968, Ph.D. (Florida), Biocompatibility profiles of surgical implant devices with an emphasis on the role(s) of element and/or force transfers along biomaterial-to-tissue interfaces

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Department of Justice Sciences, Teaching Assistant Professor and Director, Master of Science in Forensic Science Program, 2004, B.S. (Ohio), M.S., Ph.D. (UAB), Forensic Biology, Entomology, Forensic Science Education

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Department of Mechanical Engineering, Professor of Mechanical Engineering, 2005, B.S., M.S, Ph.D. (Georgia Tech), Computational Mechanics; Impact Mechanics and Shock Physics; Weapons Effects

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<td><strong>Long, Jennifer M.</strong></td>
<td>Mervyn H. Sterne Library</td>
<td>Mervyn H. Sterne Library, Senior Assistant Librarian, Reference Services, 1997, B.S. (Bowling Green)</td>
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<td><strong>Long, Sheri Spaine</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Foreign Language and Literature, Associate Professor of Spanish, 1992, B.A., M.A. (Iowa), Ph.D. (California-Los Angeles)</td>
</tr>
<tr>
<td><strong>Lou, Xiang-Yang</strong></td>
<td>School of Public Health</td>
<td>Department of Biostatistics, Ph.D. (Zhejiang), Associate Professor, Linkage and Association Analysis, Disequilibrium Mapping, Population Genetics, Bioinformatics, Machine Learning Methods and Longitudinal Data Analysis and Their Applications in Genetics and Bioinformatics.</td>
</tr>
<tr>
<td><strong>Lowman, John</strong></td>
<td>School of Health Professions</td>
<td>Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Cardiopulmonary Physical Therapy</td>
</tr>
<tr>
<td><strong>Lucas, Linda C.</strong></td>
<td>School of Engineering</td>
<td>Department of Biomedical Engineering, Professor of Biomedical Engineering; Provost, 1982, B.S. (Alabama), M.A., M.S., B.S.E., M.S.E., Ph.D. (UAB)</td>
</tr>
<tr>
<td><strong>Lucius, Aaron L.</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Chemistry, Assistant Professor of Chemistry, 2006, B.S. (Oregon State), Ph.D. (Washington U.)</td>
</tr>
<tr>
<td><strong>Lund, Donald</strong></td>
<td>School of Business</td>
<td>Department of Marketing, Industrial Distribution, and Economics, Assistant Professor of Marketing, 2009, B.S., M.B.A. (Missouri State) Ph.D. (Missouri, Columbia)</td>
</tr>
<tr>
<td><strong>Lungu, Claudiu T.</strong></td>
<td>School of Public Health</td>
<td>Department of Environmental Health Sciences, Ph.D., Associate Professor and Interim Director Deep South Center for Occupational Health and Safety, Evaluation of adsorption characteristics of granular activated carbon and activated carbon fibers used in respiratory protection and protective clothing; Measurement and evaluation of VOC exposure in various workplaces; VOC emissions from building materials; Exposure to ionizing radiation.</td>
</tr>
<tr>
<td><strong>Mack, June</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Communication Studies, Associate Professor of Theatre, 2001, B.A. (Hollins), M.F.A. (Florida State), M.Ed. (Harvard)</td>
</tr>
<tr>
<td><strong>Macrina, David M.</strong></td>
<td>School of Education</td>
<td>Department of Human Studies, Professor of Health Education, 1988, B.S. (Siena), M.S. (Massachusetts), Ph.D. (Illinois)</td>
</tr>
<tr>
<td><strong>Maday, Kristopher</strong></td>
<td>School of Health Professions</td>
<td>Department of Surgical Physician Assistant Studies, Assistant Professor; Trauma</td>
</tr>
<tr>
<td><strong>Madden, Kerry</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of English, Associate Professor of English, 2009, B.A. (Tennessee), M.F.A. (Tennessee)</td>
</tr>
<tr>
<td><strong>Maples, Elizabeth H.</strong></td>
<td>School of Public Health</td>
<td>Department of Environmental Health Sciences, Ph.D., M.P.H., Assistant Professor and Deputy Director, Deep South Center for Occupational Health and Safety, Reduction of work-related injuries and illnesses through effective training programs, designing, implementing and evaluating occupational health and safety training programs. Also interested in expanding the capacity of environmental public health practitioners in working within communities to address environmental health problems, specifically noise pollution</td>
</tr>
<tr>
<td><strong>March, Joe L.</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Chemistry, Associate Professor of Chemistry; Associate Director, Science and Technology Honors Program, 1999, B.S., M.S. (Southwestern Texas), Ph.D. (Texas)</td>
</tr>
<tr>
<td><strong>Marion, Ken R.</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Biology, Professor Emeritus of Biology, 1971, B.A., Ph.D. (Washington University, St. Louis), Animal Natural History and Aquatic Environmental Biology</td>
</tr>
<tr>
<td><strong>Marstrander, Jon</strong></td>
<td>School of Engineering</td>
<td>Department of Electrical and Computer Engineering, Instructor of Electrical and Computer Engineering, 2005, B.S.E.E., M.S.E.E. (UAB), P.E. (Alabama), Signal and Image Processing, Embedded Systems, and Field Programmable Gate Arrays</td>
</tr>
<tr>
<td><strong>Martin, Warren S.</strong></td>
<td>School of Health Professions</td>
<td>Department of Administration Health Services, Professor (Marketing); Survey Research, Marketing Strategy, Professional Sales Strategy, Decision Making</td>
</tr>
<tr>
<td><strong>Martyshkin, Dmitri V.</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Physics, Research Assistant Professor, 2010, B.S. (Novosibirsk State University, Russia), M.S., Ph.D. (UAB), Development of spectroscopic characterization of doped laser materials; solid-state lasers; laser spectroscopy for molecular-sensing applications</td>
</tr>
<tr>
<td><strong>Mayer, John C.</strong></td>
<td>College of Arts and Sciences</td>
<td>Department of Arts and Sciences</td>
</tr>
</tbody>
</table>

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**Note:** The list continues with similar entries for each individual, covering a wide range of academic disciplines and professional backgrounds.
Department of Mathematics, Professor of Mathematics; Associate Chair, Department of Mathematics, 1984, B.A. (Randolph-Macon), M.A., Ph.D. (Florida), Topology, Continuum Theory, Dynamical Systems, Mathematics Education

Mayoral-Hernández, Roberto
College of Arts and Sciences
Department of Foreign Language and Literature, Assistant Professor of Spanish; Associate Chair, Foreign Language and Literature, 2008

McCain, Kevin
College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 2012, B.A., B.S. (Southeast Missouri State University), M.A. (University of Missouri-Columbia), Ph.D. (University of Rochester, New York)

McCarthy, John
School of Health Professions
Health Focused Patient/Client Management for Physical and Occupational Therapists, PT, PhD, Associate Professor of Physical Therapy

McCarty, Karen
School of Nursing
Assistant Professor of Nursing, 2004, B.S.N., M.P.H. (UAB), M.S.N. (Florida), Ph.D. (Central Florida)

McClintock, James B.
College of Arts and Sciences
Department of Biology, Endowed University Professor, 1987, B.S. (California), M.S., Ph.D. (South Florida), Polar and Marine Biology

McClure, Craig P.
College of Arts and Sciences
Department of Chemistry, Associate Professor of Chemistry, 2005, B.A. (Northern Iowa), M.S., Ph.D. (Michigan)

McClure, Leslie A.
School of Public Health
Department of Biostatistics, Ph.D. (Michigan), Associate Professor and Director of Graduate Studies, Clinical Trials with Multiple Outcomes, Interim Analysis.

McComiskey, Bruce
College of Arts and Sciences

McConnell, Michael N.
College of Arts and Sciences
Department of History, Associate Professor Emeritus of History, 1985, B.A. (Indiana of Pennsylvania), M.A. (Youngstown), Ph.D. (William and Mary)

McCormick, Lisa
School of Public Health
Department of Health Care Organization and Policy, DrPH, Assistant Professor

McCormick, Martin J.
School of Engineering
Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering, 1967, B.S.E.E., M.S.E.E., Ph.D. (Arkansas), P.E. (Alabama)

McDaniel, David R.
School of Engineering
Department of Mechanical Engineering, Research Associate Professor of Mechanical Engineering, 2008, B.S. (US Air Force Academy), M.S. (George Washington University), Ph.D. (Colorado, Colorado Springs), High Performance Computing; Computational Fluid Dynamics; Multidisciplinary Air Vehicle Simulation

McDevitt, Michael E.
School of Health Professions
Department of Health Informatics, Adjunct Professor (Health Services Administration)

McFarland, Carl E. Jr.
College of Arts and Sciences
Department of Psychology, Professor of Psychology, Co-Director, Undergraduate Neuroscience Program, 1975, B.A., M.S., Ph.D. (Kansas)

McGhee, Tomeka W.
School of Education
Department of Human Studies, Associate Professor of Counselor Education, Foundations; Urban Education, Education and Birmingham Civil Rights Movement; African American Education, Life History of Educators, Home-School Relation

McGrath, Shelly L.
College of Arts and Sciences
Department of Justice Sciences, Assistant Professor of Justice Sciences, 2008, B.S. (St. Mary's), M.S. (Ball State), Ph.D. (Southern Illinois), Quantitative Methods, Crime Mapping, Violence

McGuinness, Teena
School of Nursing
Professor of Nursing; Interim Chair Community Health, Outcomes and Systems, 2007, B.S.N. (Old Dominion), M.S. (Virginia Commonwealth), Ph.D. (Pittsburgh)

McGwin, Gerald
School of Public Health
Department of Epidemiology, Professor and Vice Chair (Epidemiology); Injury Epidemiology, Ophthalmic Epidemiology; Epidemiologic Methods

McKnight, Andrew
School of Education
Department of Human Studies, Associate Professor of Foundations of Education, 2003, B.A. (Virginia Commonwealth), M.A.Ed. (William Mary), Ph.D. (North Carolina at Greensboro)

McLain, Rhonda
School of Nursing
Assistant Professor of Nursing; Assistant Dean for Undergraduate and Prelicensure Programs, 2005, B.S.N. (College of Mt. St. Joseph), M.N. (Emory), D.S.N. (UAB)

McLernon, Dennis J.
College of Arts Science
Department of Theatre, Associate Professor of Theatre, 2000, B.A. (Allentown), M.Ed. (Auburn-Montgomery), M.F.A. (Alabama-Alabama Shakespeare Festival)
McNeese, Rose
School of Education
Department of Human Studies, Associate Professor of Educational Leadership, 2013, B.S. (Southern Mississippi); Ed. Specialist, Ph.D. (Georgia State)

McPherson, Heather A.
College of Arts and Sciences
Department of Art History, Professor of Art History, 1982, B.A. (Oregon), M.A. (Sorbonne), Ph.D. (Washington)

Meadows, Lee
School of Education
Department of Curriculum and Instruction, Associate Professor of High School Education, 1993, B.A. (Mississippi), M.A.Ed. (Texas), Ph.D. (Georgia)

Meakin, Robert
School of Engineering
Department of Mechanical Engineering, Professor of Mechanical Engineering, 2007, B.S. (Brigham Young), M.S., Ph.D. (Stanford), Software Engineering for Multi-Disciplinary, Physics-Based Simulation Capability Development; Computational Geometry; Aerodynamics of Multiple-Bo"dies in Proximate Flight

Menachemi, Nir
School of Public Health
Department of Health Care Organization and Policy, PhD, Professor

Menear, Kristi S.
School of Education
Department of Human Studies, Associate Professor of Physical Education, 2001, B.A. (Louisiana), M.A., Ph.D. (New Orleans)

Mennemeyer, Stephen T.
School of Public Health
Department of Health Care Organization and Policy, PhD, Professor

Menses, Karen
School of Nursing
Professor of Nursing; Associate Dean of Research, 2007, B.S. (Georgetown), M.S., Ph.D. (Boston College)

Merritt, Stephen
College of Arts and Sciences
Department of Anthropology, Assistant Professor of Anthropology, 2013, B.S., M.A., Ph.D. (Rutgers)

Mersmann, James
College of Arts and Sciences
Department of English, Associate Professor of English, Emeritus, 1973, B.A. (Missouri-Kansas City), M.A., Ph.D. (Kansas)

Messina, Frank M.
School of Business
Department of Accounting and Finance, Professor of Accounting, 1993, B.S. (Livingston), M.Acc., Ph.D. (Mississippi State), C.P.A.

Metcalf, Sevante K.
School of Business
Department of Accounting and Finance, Instructor and Internship Coordinator, 2012, B.A., M.B.A. (UAB)

Michael III, Max
School of Public Health
Department of Health Care Organization and Policy, MD, Professor and Dean

Middleton, John C.
School of Engineering
Department of Biomedical Engineering, Research Professor of Biomedical Engineering, 2011, B.S. (Birmingham Southern), Ph.D. (Southern Mississippi)

Millard, Andre J.
College of Arts and Sciences
Department of History, Professor of History, 1989, B.A. (Nottingham-England), M.A. (Mississippi), Ph.D. (Emory)

Miller, Brianna
School of Health Professions
Department of Clinical and Diagnostic Sciences, Assistant Professor, M.S.

Miller, Jeffery
School of Health Professions
Department of Clinical and Diagnostic Sciences, Teacher

Miller, Kenneth
School of Business
Department of Marketing, Industrial Distribution, Economics, Instructor of Marketing and Industrial Distribution; Executive Director, MBA Programs, 2008, B.S. (Auburn), M.B.A. (Golden Gate), Ed.D. (Vanderbilt)

Miller, Stephen J.
College of Arts and Sciences
Department of History, Associate Professor of History, 2001, B.A. (Wisconsin-Madison), M.A., Ph.D., (UCLA)

Miller, Susan
School of Health Professions
Department of Nutrition Sciences, MS, RD, LD Assistant Professor; Director UAB Dietetic Internship and Interim Director of the MS Program in Nutrition Sciences

Milligan, Gary
School of Nursing
Instructor of Nursing; Mobility Program Coordinator, 2008, B.S.N. (Birmingham-Southern), M.S.N. (Jacksonville State), M.S.H.A., D.N.P. (UAB)

Milner, Adrienne
College of Arts and Sciences
Department of Sociology, Teaching Assistant Professor of Sociology, 2012, B.A. (Emory), M.A., Ph.D. (Miami)

Miltner, Rebecca S.
School of Nursing
Assistant Professor of Nursing, 2010, B.S.N. (Georgia), M.S.N. (Wisconsin), Ph.D. (Maryland)

Minnix, Christopher
College of Arts and Sciences
Department of English, Assistant Professor of English; Director, Freshman Composition, 2012, B.S. (Grace College), M.A. (Radford), Ph.D. (Tennessee), Rhetorical Theory, Transnational Rhetoric, Compositions Studies, Writing Program Administration

Mirov, Sergey B.
College of Arts and Sciences
Department of Physics, University Professor, 1993, Master (Moscow Power Engineering Institute), Ph.D. (USSR Academy of Sciences), Experimental quantum electronics, solid-state lasers, laser spectroscopy

Moellering, Douglas School of Health Professions
Department of Nutrition Sciences, PhD Assistant Professor (Nutrition Sciences); mitochondrial physiology, bioenergetics, and free radical-mediated tissue injury and disease pathologies. Currently, research is focused on mitochondrial free-radical production contributing to altered bioenergetics, the development of obesity, insulin resistance and T2DM, increased cardiovascular disease susceptibility, and aging.

Mohi, Raymond A. College of Arts and Sciences
Department of History, Distinguished Professor of History, 1996, B.A. (Hamilton), M.A.T. (Yale), M.A., Ph.D. (NYU)

Mohr, Robert D. College of Arts and Sciences
Department of Physics, Instructor of Physics, 2003, B.S. (North Georgia), M.S. (Clemson), Ph.D. (Alabama), Computational applications to theoretical astrophysical problems

Mompoint-Williams, Darnell School of Nursing
Assistant Professor of Nursing, 2007, B.S.N., M.S.N., D.N.P (UAB)

Moneyham, Linda School of Nursing
Professor of Nursing; Senior Associate Dean for Academic Affairs, 2007, B.S.N. (Berea College), M.S.N. (Kentucky), D.S.N. (Indiana)

Monroe, Charles A. School of Engineering
Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering, 2012, B.S. (Penn State), M.S., Ph.D. (Iowa), Metals Casting, Design for Manufacture, Process Modeling

Monti, Denise College of Arts and Sciences
Department of Biology, Professor of Biology, 2013, B.S. (Cornell), M.P.H., Ph.D. (UAB), Microbiology

Moore, Hassan School of Engineering
Department of Mechanical Engineering, Assistant Professor of Mechanical Engineering, 2007, B.S. (Dillard), M.S. (Xavier), Ph.D. (Howard), Engineering Mathematics; Engineering Education; Non-Coaxial LiDAR Systems

Moore, John K. College of Arts and Sciences
Department of Foreign Language and Literature, Associate Professor of Spanish, 2003, B.A. (University of the South), M.A.T. (Middle Tennessee State), Ph.D. (North Carolina-Chapel Hill)

Moore, Randy School of Nursing
Instructor of Nursing, 2009, B.S.N., M.S.N., D.N.P. (UAB)

Moradi, Lee School of Engineering
Department of Civil, Construction, and Environmental Engineering, Director of Engineering for the Center for Biophysical Sciences and Engineering, 1996, B.S., M.S., Ph.D. (UAB), Vibrations; Systems Engineering; Finite Elements Method

Morgan, Charity School of Public Health
Department of Biostatistics, Ph.D. (Harvard University), Assistant Professor, Finite Mixture Models. Bayesian Data Analysis. Multiple Sclerosis. Psychopathology.

Morgan, Kathryn College of Arts and Sciences
Department of Justice Sciences, Associate Professor of Justice Sciences; Director of African American Studies, 1991, B.S., M.A. (Texas Woman's), Ph.D. (Florida State), Corrections, Criminological Theory, Minorities, Violence

Morris, David School of Health Professions
Health Focused Patient/Client Management for Physical and Occupational Therapists, PT, PhD, Associate Professor of Physical Therapy

Morrison, Shannon School of Nursing
Assistant Professor of Nursing, 2010, B.S.N., M.S.N. (Jacksonville State), Ph.D. (UAB)

Morrow, David R. College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 2010, B.A. (John Hopkins); Ph.D. (CUNY)

Moser, Stephen A. School of Health Professions
Department of Health Informatics, Ph.D., Associate Professor (Pathology/Microbiology)

Moss, Jacqueline School of Nursing
Professor of Nursing; Chair, Adult/Acute Health Chronic Care Foundations, 2011, B.S.N., M.S.N (Georgia State) Ph.D. (Maryland)

Mosteller, Paul W. College of Arts and Sciences
Department of Music, Associate Professor of Music, 1988, B.S. (West Chester), M.M. (Juilliard), D.M.A. (Iowa)

Motley, Carol School of Business
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Marketing, 2011, B.S. (Southern Illinois), M.B.A. (Washington), Ph.D. (Georgia)

Mrug, Sylvie College of Arts and Sciences
Department of Psychology, Associate Professor of Psychology, 2005, B.S., M.S., Ph.D. (Purdue)

Muccio, Donald D. College of Arts and Sciences
Faculty Listing

Department of Chemistry, Professor of Chemistry, 1982, B.S., Ph.D. (Ohio State)

Mukhtar, Karolina
College of Arts and Sciences
Department of Biology, Assistant Professor of Biology, 2010, M.S. (Szczecin), Ph.D. (Cologne), Plant Molecular Biology

Mukhtar, Shahid
College of Arts and Sciences
Department of Biology, Assistant Professor of Biology, 2010, B.Sc., M.Sc. (Faisalabad), Ph.D. (Cologne), Functional Genomics and Bioinformatics, Network Biology

Mulvihill, Beverly
School of Public Health
Department of Health Care Organization and Policy, PhD, Associate Professor

Mumford, Gregory
College of Arts and Sciences
Department of Anthropology, Associate Professor of Anthropology, 2007, B.S., M.A., Ph.D. (Toronto)

Munchus III, George M.
School of Business
Department of Management, Information Systems, and Quantitative Methods, Professor of Management, 1976, B.S., M.B.A., Ph.D. (North Texas State), A.P.S.

Muntner, Paul
School of Public Health
Department of Epidemiology, Professor (Epidemiology and Medicine); Renal Disease Epidemiology, Cardiovascular Epidemiology

Murphy, Patrice
School of Health Professions
Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Developmental Disabilities, Orthotics

Murray, Pamela S.
College of Arts and Sciences
Department of History, Professor of History, 1990, B.A. (New Mexico State), M.A., Ph.D. (Tulane)

Musa, Phillip F.
School of Business
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Management, 2000, B.S., M.S., M.B.A. (Texas Tech)

Nabors, Eddie
School of Business
Department of Accounting and Finance, Instructor of Accounting, 2011, B.S. (Alabama), M.Acc. (University of West Florida)

Nagy, Tim R.
School of Health Professions
Department of Nutrition Sciences, PhD Professor and Vice Chair for Research (Nutrition Sciences); Regulation of Energy Expenditure; Body Fat/Caloric Restriction/Cancer; Small Animal Phenotyping

Nakhmani, Arie
School of Engineering
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2011, B.Sc., M.Sc., Ph.D (Technion - Israel Institute of Technology), Computer Vision, Visual Tracking, Biomedical Image Analysis, Systems and Control

Navarette, Liliana
School of Health Professions
Department of Clinical and Diagnostic Sciences, Assistant Professor, Nuclear Medicine Technology Program, 2008, M.S. (Alabama)

Nealand, Lana
School of Nursing
Assistant Professor of Nursing, 2003, B.S.N. (Maine), M.S.N. (UAB), D.N.P. (Tennessee)

Neilson, Michael J.
College of Arts and Sciences
Department of Chemistry, Professor Emeritus of Geology, 1975, B.S., Ph.D. (New England, Australia)

Neiva, Eduardo
College of Arts and Sciences
Department of Communication Studies, Professor of Communication Studies, 1993, B.A. (Catholic University of Rio de Janeiro), M.A., Ph.D. (Federal University of Rio de Janeiro)

Nelson, Catherine N.
School of Education
Department of Curriculum and Instruction, Associate Professor of Special Education, 1993, B.S. (Millsaps), M. Ed. (Louisiana State), Ph.D. (North Texas)

Nelson, Dalton S.
School of Engineering
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 1994, B.S.E.E., M.S.E.E., (UAB), Ph.D. (UAH), P.E. (Alabama), Intelligent Control Systems, Medical Instrumentation, Software Systems and Algorithm Development

Newcomer, Bradley R.
School of Health Professions
Department of Clinical and Diagnostic Sciences, Associate Professor of Nuclear Medicine Technology Program; Director, UAB Experiential Learning Honors Program, 1997, Ph.D. (Wright State University)

Newell, Donna
School of Nursing
Instructor of Nursing, 2010, B.S.N. (Jacksonville State), M.S.N. (UAB)

Newton, Laura
School of Health Professions
Department of Nutrition Sciences, MAEd, RD, LD Assistant Professor (Nutrition Sciences); Clinical Nutrition, Nutrition and Cancer; Total Parenteral Nutrition

Nichols, Robert H.
School of Engineering
Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2002, B.S. (Mississippi State), M.S., Ph.D. (Tennessee), Propulsion; Computational Fluid Dynamics; Turbulence Modeling

Nikles, Jacqueline A.
College of Arts and Sciences
Department of Chemistry, Associate Professor of Chemistry, 2001, B.S. (Marietta College), Ph.D. (Case Western Reserve)
Ning, Haibin  
School of Engineering  
Department of Materials Science and Engineering, Research Assistant Professor, 2010, B.E. (Central South University, China); M.S. (Guangxi University, China), Ph.D. (UAB), Polymer Matrix Composite Materials, Metal; Design and Modeling

Nkashama, Mubenga N.  
College of Arts and Sciences  
Department of Mathematics, Professor of Mathematics, 1989, B.S., M.S. (National University of Zaire), Ph.D. (Catholic University of Louvain, Belgium), Multilinear Algebra, Control Theory, Optimization, Data Mining

Nolan, Timiya  
School of Nursing  
Instructor of Nursing, 2010, B.S.N., M.S.N. (UAB)

Nordlund, Thomas M.  
College of Arts and Sciences  
Department of Physics, Associate Professor of Physics, 1990, B.A. (Oregon), M.S., Ph.D. (Illinois), Physics education; biological imaging and self-assembly

Norton, Wynne E.  
School of Public Health  
Department of Health Education and Health Promotion, Assistant Professor, SOPH Health Behavior

Nugent, Kathy  
School of Health Professions  
Department of Biotechnology, Assistant Professor

O'Beirne, Rosie  
College of Arts and Sciences  

O'Conner, Stephen J.  
School of Health Professions  
Department of Administration Health Services, Professor (Health Services Administration), Health Care Policy and Management, Service Quality and Orientation, Stakeholder Analysis

O'Kelley, Sarah E.  
College of Arts and Sciences  
Department of Psychology, Assistant Professor of Psychology, 2012, B.A., M.A., Ph.D. (Alabama)

Ogard, William  
School of Health Professions  
Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Sensory Function of Anterior Cruciate Ligament, Proprioception of Knee Joint, Anatomy, Function of Lumbar Musculature

Olive, J. Fred  
Mervyn H. Sterne Library  

Oliver, Doug  
School of Nursing  
Instructor of Nursing, 2008, B.A. (David Lipscomb College), B.S.N., M.S.N. (South Alabama), D.N.P. (UAB)

Oliver, Nathan  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Instructor of Management, 2003, B.S. (UAB), M.B.A. (Alabama AM)

Orihuela, Carlos L.  
College of Arts and Sciences  
Department of Foreign Language and Literature, Associate Professor of Spanish, 1994, B.A. - Licenciatura in Literature (Universidad Nacional Mayor De San Marcos, Lima), M.A., Ph.D. (Pittsburgh)

Oversteegen, Lex G.  
College of Arts and Sciences  
Department of Mathematics, Professor of Mathematics, 1980, Kandidaat Doctorandus (Amsterdam), Ph.D. (Wayne State), Topology, Continuum Theory, Dynamical Systems

O’Leary, Malinda Blair  
College of Arts and Sciences  
Department of Foreign Language and Literature, Instructor of Spanish, 2005, B.A., M.Ed. (UAB), Ph.D. (Alabama)

O'Neal, Marcia R.  
School of Education  
Department of Human Studies, Research Assistant Professor, 1998, B.A. (UCLA), B.S., M.A., Ph.D. (Alabama)

O’Neill, Peter V.  
College of Arts and Sciences  
Department of Mathematics. Professor Emeritus of Mathematics, 1978, B.S. (Fordham), M.S., Ph.D. (Rensselaer Polytechnic Institute), Graph Theory, Combinatorics

Panion III, Henry  
College of Arts and Sciences  
Department of Music, Professor of Music, 1987, B.S. (Alabama AM), M.A., Ph.D. (Ohio State)

Parcak, Sarah H.  
College of Arts and Sciences  
Department of Anthropology, Associate Professor of Anthropology, 2006, B.A. (Yale), M.A., Ph.D. (Cambridge)

Parrish, Sherry  
School of Education  
Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2011, B.S. (Samford), M.A.Ed. (UAB), Ed.D. (Samford)

Pass, Mary Ann  
School of Public Health  
Department of Health Care Organization and Policy, MD, Research Associate Professor

Patrician, Patricia  
School of Nursing  
Professor of Nursing; Banton Professorship, 2008, B.S.N. (Wilkes), M.S.N. (Texas), M.S. (U.S. Army War College), Ph.D. (Pennsylvania)

Patterson, Heather  
School of Nursing  
Instructor of Nursing, 2012, B.S.N. (UAB), PharmD (Auburn)

Patterson, James C.  
College of Arts and Sciences  
Department of Nursing
Department of Chemistry, Assistant Professor of Chemistry, 2007, B.A. (Carleton), Ph.D. (California – Santa Barbara)

**Paustian, Pamela E.** School of Health Professions
Department of Clinical and Diagnostic Sciences, Assistant Professor and Program Director, Health Care Management Program, 2011, Ph.D. (UAB)

**Pearce, Patricia Flannery** School of Nursing
Assistant Professor of Nursing, 2009, B.A., B.S.N. (Loyola), M.P.H. (Tulane), M.S.N. (Mississippi University for Women), Ph.D. (North Carolina, Chapel Hill)

**Pearson, Craig C.** School of Health Professions
Department of Health Informatics, M.S.H.I., Credit Course Instructor (Health Services Administration)

**Pekmezi, Dori** School of Public Health
Department of Health Education and Health Promotion, Assistant Professor, SOPH, Health Behavior

**Pence, Gregory E.** College of Arts and Sciences
Department of Philosophy, Chair Professor of Philosophy, 1976, B.A. (William and Mary), M.A., Ph.D. (New York)

**Peoples, Vanetta** School of Nursing
Instructor of Nursing, 2009, B.S.N. (UAB), M.S.N. (Phoenix)

**Perez, Patty** School of Health Professions
Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Orthopedic Rehabilitation

**Perkins, Fran** School of Education
Department of Curriculum and Instruction, Associate Professor of Reading Education, 2013, B.S., M.A.Ed., Ph.D. (UAB)

**Perkins, Martinique** School of Public Health
Department of Health Education and Health Promotion, Assistant Professor, SOPH, Health Behavior

**Perry, Rodney** School of Public Health
Department of Epidemiology, Assistant Professor (Epidemiology); Molecular Epidemiology, Laboratory Methods

**Perry, Tonya** School of Education
Department of Curriculum and Instruction, Assistant Professor (Secondary Education); Language Arts Education, 2002, B.A. (North Carolina), M.A., Ph.D. (UAB)

**Perumean-Chaney, Suzanne** College of Arts and Sciences
Department of Justice Sciences, Assistant Professor of Justice Sciences, 2004, B.S., M.S. (Nevada), Ph.D. (SUNY Albany), Quantitative Methods, Violence, Program Evaluation

**Peters, Gary B.** School of Education
Department of Human Studies, Associate Professor, 2010, Leadership; Organizational Theory

**Peters, Robert W.** School of Engineering
Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering, 2001, B.S. (Northwestern), M.S., Ph.D. (Iowa State), P.E. (Indiana and Illinois), Environmental Engineering, Water and Wastewater Treatment, Hazardous Waste Treatment

**Petri, Cynthia J.** School of Education
Department of Human Studies, Associate Professor of Health Education, 1992, B.A., M.S., Ph.D. (Purdue)

**Pevsner, Wanda D.** School of Education
Department of Curriculum and Instruction, Assistant Professor of Special Education, 2004, B.S. (Judson), M.A., Ph.D. (UAB)

**Phillips, Jennan** School of Nursing
Assistant Professor of Nursing, 2008, B.S.N. (Samford), M.S.N., D.S.N. (UAB)

**Phillips, Scott L.** College of Arts and Sciences
Department of Music, Assistant Professor of Music, 2008, B.A. (Brigham Young), M.A. (Central Florida), Ph.D. (Iowa)

**Pijuan-Thompson, Vivian** School of Health Professions
Department of Clinical and Diagnostic Sciences, Associate Professor, Ph.D.

**Pilkerton, Patty A.** Mervyn H. Sterne Library

**Pillay, Selvum** School of Engineering
Department of Materials Science and Engineering, Associate Professor of Materials Science and Engineering, 2007, Bach (M L Suttan Technikon), M.S.M.E. (Florida AM), Ph.D. (UAB), Polymer Matrix Composites, Manufacturing and Processing, Design for Manufacture

**Pirkelbauer, Peter** College of Arts and Sciences
Department of Computer and Information Sciences, Assistant Professor of Computer and Information Sciences, 2012, Dipl.-Ing. (Linz, Austria), MBA, Ph.D. (Texas AM University), Compilers, Runtime Systems, High Performance Computing, Non-Blocking Software Design

**Piyathilake, Chandrika** School of Health Professions
Department of Nutrition Sciences, PhD Associate Professor (Nutrition Sciences); Lung Cancer and Biomarkers
Plaisance, Eric
School of Education
Department of Human Studies, Assistant Professor of Exercise Physiology, 2013, B.S. (Nicholls State), M.S. (United States Sports Academy), Ph.D. (Auburn)

Plutchak, T. Scott
School of Health Professions
Department of Health Informatics, M.A., Associate Professor (Lister Hill Library of the Health Sciences)

Pollard, Andrew
School of Engineering
Department of Biomedical Engineering, Professor of Biomedical Engineering, 1996, B.S.E., M.S.E., Ph.D. (Duke), Cardiac electrophysiology, Computer simulations and Modeling of electrical signals of the heart

Pollio, David
College of Arts and Sciences
Department of Social Work, Distinguished Professor, 2014, B.A., M.S.W. (Virginia), Ph.D. (Michigan)

Ponder, Amy
School of Nursing
Instructor of Nursing, 2009, B.S.N. (UAB), M.S.N. (Samford)

Poole, Dorothea
School of Nursing
Instructor of Nursing, 1993, B.S.N. (Tuskegee), M.S.N. (UAB)

Powell, Kathleen
School of Nursing
Assistant Professor of Nursing, 2007, B.S.N., M.S.N., Ph.D. (UAB)

Powell, Larry
College of Arts and Sciences
Department of Communication Studies, Professor of Communication Studies, 1998, B.A., M.A. (Auburn), Ph.D. (Florida)

Powell, Mickie L.
College of Arts and Sciences
Department of Biology, Research Assistant Professor of Biology, 2006, B.S., M.S., Ph.D. (UAB), Invertebrate Physiology

Powers, Thomas L.
School of Business
Department of Marketing, Industrial Distribution, Economics, Professor of Marketing and Industrial Distribution, 1985, B.S., M.B.A. (Eastern Michigan), Ph.D. (Michigan State)

Prado, Josephine
School of Education
Department of Curriculum and Instruction, Assistant Professor of English as a Second Language, 2013, B.A. (Agnes Scott College); M.A., Ph.D. (Alabama)

Prather-Kinsey, Jenice
School of Business
Department of Accounting and Finance, Professor of Accounting; Chair, Department of Accounting and Finance, 2001, B.S. (Lindenwood), M.S. (Illinois), PhD. (Alabama), C.P.A.

Preskitt, Julie
School of Public Health
Department of Health Care Organizaion and Policy, PhD, Assistant Professor

Price, Marjorie
College of Arts and Sciences
Department of Philosophy, Associate Professor of Philosophy, 1977, A.B. (Barnard), M.A., Ph.D. (New York)

Price, William
College of Arts and Sciences
Department of Music, Associate Professor of Music, 2006, B.M.E. (UNA), M.M., D.M.A. (LSU)

Prince, Charles W.
School of Health Professions
Department of Nutrition Sciences, PhD Emeritus Professor (Nutrition Sciences), Bone Metabolism, Vitamin D Function; Osteopontin, Orthopedic Implant Biocompatibility, Cellular Transduction of Mechanical Load

Pryor, Erica
School of Nursing
Associate Professor of Nursing, 2000, B.S.N. (UAH), M.S.N. (UAB), Ph.D. (Emory)

Quinlan, Kieran
College of Arts and Sciences

Quintana, Jose B.
School of Health Professions
Department of Health Administration, Assistant Professor (Health Services Administration); Outcomes Management and Process Improvement, Quality, Outcomes Management and Process Improvement, Quality

Racca, Joshua
School of Business
Department of Accounting and Finance, Assistant Professor of Accounting, 2011, Ph.D. pending University of North Texas (Denton, Texas)

Radford, David L.
School of Education
Department of Curriculum and Instruction, Associate Professor of Elementary and High School Education, Science Education Coordinator, Center for Community Outreach, 1998, B.A. (Florida), M.A. (South Florida), Ph.D. (Georgia)

Raut, Samiksha
College of Arts and Sciences
Department of Biology, Assistant Professor of Biology, 2012, B.S., M.S. (Nagpur), Ph.D. (UAB), General Biology and Microbiology

Rauterkus, Andreas
School of Business
Department of Accounting and Finance, Associate Professor of Finance, 2007, Diploma (J. W. Goethe University, Germany), M.B.A. (East Carolina), Ph.D. (Cincinnati)

Ray, Midge N.
School of Health Professions
Department of Health Services Administraion, Associate Professor, Health Information Management Program, 1983, R.N, M.S.N. (UAB)
Redden, David T.  
School of Public Health  
Department of Biostatistics, Ph.D. (Alabama), Professor. Regression Diagnostics, Admixture, Association Studies.

Reed, Linda  
School of Nursing  
Assistant Professor of Nursing, 1980, B.S.N., M.S.N. (UAB), Ph.D. (Texas)

Reiff, Donald  
School of Health Professions  
Department of Surgical Physician Assistant Studies, Medical Director; Trauma

Reilly, Kevin D.  
College of Arts and Sciences  
Department of Computer and Information Sciences, Professor Emeritus of Computer and Information Sciences, 1970, B.S. (Creighton), M.S. (Nebraska), Ph.D. (University of Chicago)

Reynolds, Jeff W.  
College of Arts and Sciences  
Department of Music, Associate Professor of Music, 1998, B.M. (Samford), M.M. (Southwestern Baptist Theological Seminary), D.M.A. (Illinois)

Reynolds, Robert C.  
College of Arts and Sciences  
Department of Chemistry, Research Professor of Chemistry, 2012, B.S. (University of Virginia), Ph.D. (Duke)

Rice, Marti  
School of Nursing  
Professor of Nursing, 1997, B.S.N. (Creighton), M.S.N. (Medical College of Georgia), Ph.D. (Georgia State)

Richmond, Virginia  
College of Arts and Sciences  
Department of Communication Studies, Professor of Communication Studies, 2006, B.A. (West Virginia Institute of Technology), M.A. (West Virginia), Ph.D. (Nebraska)

Riddle, Nicole C.  
College of Arts and Sciences  
Department of Biology, Assistant Professor of Biology, 2012, B.S. (Missouri), Ph.D. (Washington University in St. Louis), Epigenetics and Chromatin Structure

Rieger, Sonja O.  
College of Arts and Sciences  
Department of Art Art History, Professor of Art, 1979, B.A. (Massachusetts), M.F.A. (Rutgers)

Riggs, Jennifer  
School of Nursing  
Assistant Professor to Nursing, 2011, B.S.N. (Vermont), M.S.N., Ph.D. (Case Western Reserve)

Rigney, E. Douglas  
School of Engineering  
Department of Biomedical Engineering, Professor of Biomedical Engineering; Vice President of Information Technology, 1989, B.S.E, B.S.Mt.E., M.S.B.M.E, Ph.D. (UAB), P.E. (Alabama)

Rinker, Erika H.  
College of Arts and Sciences  
Department of Foreign Language and Literature, Instructor of German, 2008, B.A. (Wake Forest), M.A. (Washington in Saint Louis)

Rivera, C. Julio  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Information Systems, 1988, B.S., M.S. (Texas AM), M.B.A. (Southern Mississippi), Ph.D. (Mississippi State)

Roberts, Steve  
College of Arts and Sciences  
Department of Music, Assistant Professor of Music, 2007, B.M. (Oberlin), M.M., D.M.A. (Illinois)

Robicheaux, Robert A.  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Chair, Department of Marketing, Industrial Distribution, and Economics; Professor of Marketing and Industrial Distribution, 2004, B.S., M.B.A., Ph.D. (Louisiana State University)

Robinson, Cheryl  
School of Nursing  
Associate Professor of Nursing, 2011, B.S.N. (Alabama), M.S.N. (Colorado), D.N.S. (LSU)

Robinson, Christopher  
College of Arts and Sciences  
Department of Psychology, Assistant Professor of Psychology, 2004, B.A. (New College), Ph.D. (UAB)

Robinson, Robert R.  
College of Arts and Sciences  
Department of Government, Assistant Professor of Government, 2006, B.A. (Rhodes), M.A., PhD. (Wisconsin-Madison)

Rodriguez, Christiana M.  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, 2013, B.S. (Miami); M.S., Ph.D. (Florida)

Rogers, Jack M.  
School of Engineering  
Department of Biomedical Engineering, Professor of Biomedical Engineering, 1994, B.S., M.S., Ph.D. (California-San Diego), Cardiac electrophysiology, Computer simulations, Signal analysis of cardiac arrythmias

Roseman, Jeffrey  
School of Public Health  
Department of Epidemiology, Professor Emeritus (Epidemiology); Chronic Disease Epidemiology, Cardiovascular Epidemiology, Diabetes Epidemiology, Injury Epidemiology

Ross, Douglas H.  
School of Engineering  
Department of Mechanical Engineering, Assistant Professor of Mechanical Engineering, 2008, B.S. (Illinois), M.S. (UAB), Computer Aided Design; Undergraduate Education; Machine Design

Roussell, Linda  
School of Nursing  
Professor of Nursing, DNP Program Coordinator, 2013, B.S.N. (Williams Cary), M.S.N. (Southern Mississippi), Ph.D. (UAB)
Roy, Jane  School of Education
Department of Human Studies, Associate Professor of Physical Education, 2001, B.S., M.A., PhD. (Alabama)

Rucks, Andrew  School of Public Health
Department of Health Care Organization and Policy, PhD, Professor

Rushton IV, William  College of Arts and Sciences
Department of English, Assistant Director, Honors Program; Adjunct Lecturer of English, 1998, B.A. (Vanderbilt), A.B. (Oxford), M.A., Ph.D. (Virginia)

Russell, Jackie  School of Business
Department of Accounting and Finance, Instructor of Accounting, 2013, B.S. (Birmingham-Southern), M.Acc. (Birmingham-Southern), J.D. (Miles)

Ryan, Cynthia  College of Arts and Sciences
Department of English, Associate Professor of English; Director, Internships, 1998, B.S., M.A. (Illinois State), Ph.D. (Purdue)

Saito, Yoshimi  College of Arts and Sciences
Department of Mathematics, Professor Emeritus of Mathematics, 1983, B.A., M.A., Ph.D. (Kyoto, Japan), Scattering Theory, Differential Equations

Salama, Talat  School of Engineering
Department of Civil, Construction, and Environmental Engineering, Assistant Professor of Civil, Construction, and Environmental Engineering, 2005, B.S.C.E. (Rutgers), M.S. (The American University in Cairo, Egypt), Ph.D. (Rutgers), P.E. (Indiana and Alabama)

Samuels, Sue  College of Arts and Sciences
Department of Music, Associate Professor of Music; Director of Bands, 2003, B.M. (Furman), M.M. (Georgia State), Ph.D. (Auburn)

Sanders, Tommy J.  School of Health Professions
Department of Health Informatics, Ph.D, Credit Course Instructor (Health Services Administration)

Sanspree, Mary Jean  School of Education
Department of Curriculum and Instruction, Research Professor of Special Education, 1996, B.S. (Auburn), M.A. (U.A.B.), Ph.D. (U.A.B.)

Santoro, Nick J.  School of Engineering
Department of Mechanical Engineering, Research Associate Professor of Mechanical Engineering, 2007, B.S., M.S. (Alabama), Power Generation; Thermal Dynamics; Internal Combustion Engines

Sathia Kumar, Nalini  School of Public Health
Department of Epidemiology, Professor (Epidemiology); Environmental Epidemiology, Occupational Epidemiology, Chronic Disease Epidemiology

Saul, Renee  School of Nursing
Instructor of Nursing, 2012, B.S.N., M.A. (Murray State), M.S.N. (Evansville)

Savage, Arline  School of Business
Department of Accounting and Finance, Professor of Accounting, 2012, Ph.D. (University of Port Elizabeth-South Africa), CA (SA)

Savage, Grant  School of Business
Department of Management, Information Systems, and Quantitative Methods, Professor of Management, 2011, B.A. (Connecticut), M.A., Ph.D. (Ohio State)

Saxena, Nitish  College of Arts and Sciences
Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences, 2011, B.S. (Kharagpur), M.S., Ph.D. (University of California-Irvine)

Schimizzi, Anthony J.  Mervyn H. Sterne Library

Schnormeier, Kimberly A.  College of Arts Science
Department of Theatre, Associate Professor of Theatre; Associate Chair, Department of Theatre, 1991, B.F.A. (Miami), M.F.A. (Northwestern)

Schroder, Kerstin  School of Public Health
Department of Health Education and Health Promotion, Associate Professor, SOPH, Health Behavior

Schwebel, David C.  College of Arts and Sciences
Department of Psychology, Professor of Psychology, Associate Dean of Research in the Sciences, 2000, B.A. (Yale), M.A., Ph.D. (Iowa)

Scott, Mary Katherine  School of Education
Department of Curriculum and Instruction, Instructor of Early Childhood and Elementary Education, 2010, EdS (UAB)

Scripa, Rosalia N.  School of Engineering
Department of Materials Science and Engineering, Professor of Materials Science and Engineering; Professor of Biomedical Engineering, 1976, B.S. (Alfred), M.S. (Pennsylvania State), M.S., Ph.D. (Florida), P.E. (Alabama), Structure and Properties of Glass and Ceramics, Semiconductor Crystal Growth, Electronic and Magnetic Materials, Growth and Characterization of II-VI Semiconducting Compounds

Searby, Linda J.  School of Education
Department of Human Studies, Assistant Professor of Educational Leadership, 2005, B.A. (Lincoln), M.S. (Eastern Illinois), Ph.D. (Illinois State)

Seay, Susan  School of Education
Department of Curriculum and Instruction, Assistant Professor of English as a Second Language, 2011, B.S. (Auburn); M.A.Ed., Ph.D. (UAB)
Segner, E. P. Jr.  School of Engineering

Selleck, Cynthia  School of Nursing
Professor and Associate Dean for Clinical Affairs Partnerships, 2010, B.S.N., (Emory), M.S.N. (Vanderbilt), D.S.N. (UAB)

Sen, Bisakha  School of Public Health
Department of Health Care Organization and Policy, PhD, Associate Professor

Shackleford, Lee  College of Arts Science
Department of Theatre, Assistant Professor of Theatre, 2000, B.A. (UAB), M.F.A. (Southern Illinois)

Sharlach, Lisa  College of Arts and Sciences
Department of Government, Associate Professor of Government, 2004, B.A. (California), M.A. (California), Ph.D. (California - Davis)

Shaw, Sharon E.  School of Health Professions
Department of Rehabilitation Sciences, Associate Professor (Physical Therapy); Health Outcomes Assessment, Neurological Rehabilitation

Shaw-Saleh, Kristi L.  School of Education
Department of Curriculum and Instruction, Assistant Professor of English as a Second Language, 2011, Ph.D. (Alabama)

Shealy, David L.  College of Arts and Sciences
Department of Physics, Professor of Physics, Chair, Department of Physics, 1973, B.S., Ph.D. (Georgia), Geometrical optics; laser beam shaping optics; radiative transfer; caustic and optical aberration theory

Sheets, Patricia M.  School of Education

Sheng, Shibin  School of Business (Simon)
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Marketing, 2011, B.S. (Tsinghua University), Ph.D. Economics (Tsinghua University) Ph.D. Marketing (Virginia Tech)

Shores, Melanie L.  School of Education
Department of Human Studies, Assistant Professor of Educational Psychology and Research, 2005, B.S. (Auburn), M.A.E. (Auburn), M.A (Auburn), Ph.D. (Auburn)

Shterenberg, Roman G.  College of Arts and Sciences
Department of Mathematics, Associate Professor of Mathematics, 2007, M.S., Ph.D (St. Petersburg State University – Russia), Mathematical Physics, Spectral Theory, Inverse Problems, Partial Differential Equations, Non-linear Partial Differential Equations

Sicking, Dean L.  School of Engineering
Department of Mechanical Engineering, Professor of Mechanical Engineering, 2012, B.S., M.S., Ph.D. (Texas AM), Crashworthiness Design; Sports Safety Equipment; Computational Mechanics

Siegel, Daniel  College of Arts and Sciences
Department of English, Associate Professor of English; Director, Honors, Department of English, 2002, B.A. (Chicago), M.A., Ph.D. (Virginia)

Simien, Clayton  School of Engineering
Department of Physics, Assistant Professor of Physics, 2013, B.S. (Prairie View AM), Ph.D. (Rice), Strongly correlated ultracold neutral plasmas; next generation frequency standards; precision measurements and variations in fundamental constants; quantum dipolar gases and rare-earth elements; laser cooling; nanotechnology; atomic sensors

Simien, Daneesh  School of Engineering
Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering, 2014, B.S., M.S., Ph.D. (Rice University), Self Corrective and Response, “Smart” Nano Scale Composite Materials, Structure-Property Relationships of Polymer Composites Inclusive of Rheological and Electrical Properties, Nano Scale Sensors and Flexible Robust Electronics

Simon, Cliff  College of Arts Science
Department of Theatre, Associate Professor of Theatre, 2002, B.A. (Queens), M.F.A. (Texas-Austin)

Simpson, Cathy  School of Public Health
Department of Health Education and Health Promotion, Associate Professor, SOPH Health Behavior

Simpson, Laura  Mervyn H. Sterne Library

Sims, Michele  School of Education
Department of Curriculum and Instruction, Associate Professor of Reading and High School Education, 1999, B.A., M.S. (CUNY), Ed.D. (Pennsylvania)

Sims, Sandra  School of Education
Department of Human Studies, Assistant Professor of Physical Education, 2005, B.S. (Montevallo), M.A. (UAB), Ed.S. (UAB), Ph.D. (Southern Mississippi)

Simányi, Nándor  College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1999, M.S., Ph.D. (Rolánd Eötvös - Hungary), Dr.M.S. (Hungarian Academy of Sciences), Dynamical Systems, Ergodic Theory, Topology
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Year(s)</th>
<th>Degrees and Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sisiopiku, Virginia P.</td>
<td>School of Engineering</td>
<td>Associate Professor of Civil Engineering</td>
<td>2002</td>
<td>B.S. (Aristotelian University of Thessaloniki), M.S., Ph.D. (Illinois-Chicago), Traffic Engineering</td>
</tr>
<tr>
<td>Skjellum, Anthony</td>
<td>College of Arts and Sciences</td>
<td>Professor of Computer Engineering</td>
<td>2003</td>
<td>B.S., M.S., Ph.D. (California Institute of Technology)</td>
</tr>
<tr>
<td>Slaughter, Lauren</td>
<td>College of Arts and Sciences</td>
<td>Assistant Professor of English</td>
<td>2007</td>
<td>B.A. (Kenyon), M.F.A. (Alabama), M.A. (Montana)</td>
</tr>
<tr>
<td>Sloan, John</td>
<td>College of Arts and Sciences</td>
<td>Professor of Justice Sciences</td>
<td>1988</td>
<td>B.S., M.A. (Eastern Michigan), Ph.D. (Purdue), Victimization and Fear of Victimization, Campus Crime, Policy, Program Evaluation, Professional Ethics</td>
</tr>
<tr>
<td>Sloane, Michael E.</td>
<td>College of Arts and Sciences</td>
<td>Professor of Psychology</td>
<td>1982</td>
<td>B.A., M.A. (University College, Dublin), Ph.D. (Northwestern)</td>
</tr>
<tr>
<td>Slovensky, Donna J.</td>
<td>School of Health Professions</td>
<td>Professor of Health Services Administration</td>
<td>1996</td>
<td>Ph.D. (UAB)</td>
</tr>
<tr>
<td>Smith, Nancy</td>
<td>School of Nursing</td>
<td>Instructor of Nursing</td>
<td>2010</td>
<td>B.S.N. (Vanderbilt), M.S.N. (UAB)</td>
</tr>
<tr>
<td>Smith, Tedra</td>
<td>School of Nursing</td>
<td>Instructor of Nursing</td>
<td>2012</td>
<td>B.S.N. (Auburn), M.S.N., D.N.P. (UAB)</td>
</tr>
<tr>
<td>Smith, Tommy G.</td>
<td>School of Education</td>
<td>Associate Professor of High School Education</td>
<td>1989</td>
<td>B.S., M.S., Ed.D. (Auburn)</td>
</tr>
<tr>
<td>Smith, William M.</td>
<td>School of Engineering</td>
<td>Professor Emeritus of Biomedical Engineering</td>
<td>1994</td>
<td>B.S. (Oglethorpe), Ph.D. (Duke)</td>
</tr>
<tr>
<td>Snyder, Scott W.</td>
<td>School of Education</td>
<td>Associate Professor of Research and Early Childhood Special Education, 1988</td>
<td>1988</td>
<td>B.A. (SUNY-Potsdam), M.S., Ph.D. (Purdue)</td>
</tr>
<tr>
<td>Soleymani, Taraneh</td>
<td>School of Health Professions</td>
<td>Assistant Professor of Nutrition Sciences</td>
<td>2009</td>
<td>B.S. (Universidad Autónoma de Chihuahua, Mexico), M.S. (Instituto Nacional de Astrofísica,Óptica y Electrónica [INAOE], Mexico), Ph.D. (INAO, Mexico)</td>
</tr>
<tr>
<td>Somerall, D’Ann</td>
<td>School of Nursing</td>
<td>Assistant Professor of Nursing</td>
<td>2010</td>
<td>B.S., M.S., B.S.N., M.S.N., D.N.P. (UAB)</td>
</tr>
<tr>
<td>Song, Yuhua</td>
<td>School of Engineering</td>
<td>Assistant Professor of Biomedical Engineering</td>
<td>2006</td>
<td>B.S. (Jilin University of Technology), M.S. (Harbin University of Science and Technology), Ph.D. (Harbin Institute of Technology), Computational biomechanics, Computational biology, multiscale modeling</td>
</tr>
<tr>
<td>Sorge, Robert</td>
<td>College of Arts and Sciences</td>
<td>Assistant Professor of Psychology</td>
<td>2012</td>
<td>H.B.Sc. (McMaster), M.A. (Wilfrid Laurier), Ph.D. (Concordia)</td>
</tr>
<tr>
<td>Spezzini, Susan K.</td>
<td>School of Education</td>
<td>Associate Professor of English</td>
<td>2005</td>
<td>B.A. (California), M.A. (California), Ph.D. (Alabama)</td>
</tr>
<tr>
<td>Sprague, Alan P.</td>
<td>College of Arts and Sciences</td>
<td>College of Arts and Sciences</td>
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</tr>
</tbody>
</table>
Department of Computer and Information Sciences, Professor of Computer and Information Sciences; Associate Professor of Medicine, 1988, B.A. (Oberlin), M.A.T. (Northwestern), M.S., Ph.D. (Ohio State)

Stanford, Robert E. School of Business
Department of Management, Information Systems, and Quantitative Methods, Professor of Quantitative Methods, 1982, B.A. (University of the South), M.A. (Georgia Institute of Technology), Ph.D. (California-Berkeley)

Stanishevskaya, Irina N. Mervyn H. Sterne Library
Mervyn H. Sterne Library, Senior Assistant Librarian, Cataloging Collection Management, Mervyn H. Sterne Library, 2008, B.S. (Belarusian University of Culture), M.L.I.S. (Alabama)

Stanishevsky, Andrei V. College of Arts and Sciences
Department of Physics, Associate Professor of Physics, 2002, M.S. (Minsk Radioengineer Institute-USSR), Ph.D. (Belarus Academy of Sciences—USSR), Focused ion beam micro- and nanofabrication; PVD thin films deposition, characterization, and application; nanoparticle research

Stansell, Laura R. College of Arts and Sciences
Department of Mathematics, Instructor of Mathematics, 2007, B.S. (Berry), M.S. (Southern Mississippi), M.S. (UAB)

Stavrinos, Despina College of Arts and Sciences
Department of Psychology, Assistant Professor of Psychology and Medicine, Director, Translational Research for Injury Prevention (TRIP) Laboratory, 2011, B.S. (Alabama), M.A., Ph.D. (UAB)

Steadman, Laura School of Nursing
Assistant Professor of Nursing, 2010, B.S.N. (Auburn University), M.S.N. (Troy State), Ed.D. (Alabama)

Steele, Brian D. College of Arts and Sciences
Department of History, Associate Professor of History, 2005, B.A., M.A. (Tulsa), Ph.D. (UNC)

Stepanikova, Irena College of Arts and Sciences
Department of Sociology, Assistant Professor of Sociology, 2012, B.A. (Campbellsville), M.A. (Masaryk), Ph.D. (Stanford)

Stephens, Jerry W. Mervyn H. Sterne Library

Stettheimer, Tim School of Health Professions
Department of Health Informatics, Adjunct Professor (Health Services Administration)

Stocks, Douglas R. College of Arts and Sciences
Department of Mathematics, Associate Professor Emeritus of Mathematics, 1969, B.A., M.A., Ph.D. (Texas)

Stokely, Ernest M. School of Engineering
Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering; Associate Dean Emeritus of Engineering, 1990, B.S.E.E. (Mississippi State), M.S.E.E., Ph.D. (Southern Methodist), P.E. (Texas)

Stolz, Günter College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1994, Ph.D. (Frankfurt, Germany), Spectral Theory, Mathematical Physics

Stoppelbein, Laura College of Arts and Sciences
Department of Psychology, Associate Professor of Psychology, 2011, B.S., M.A., Ph.D. (Alabama)

Streby, Deborah School of Education
Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2004, B.S. (UAB), M.A.Ed. (UAB), Ph.D. (UAB)

Su, Xiaogang School of Nursing
Associate Professor of Nursing, 2010, B.S. (Beijing Normal University), M.S., Ph.D. (California at Davis)

Sullivan, Andrew School of Engineering

Summerlin, Jennifer School of Education
Department of Curriculum and Instruction, Instructor of Reading , 2011, B.A., M.A.Ed. (UAB), NBPTS

Swan, Nancy School of Nursing
Instructor of Nursing, 2010, B.S. (UAB), A.D. (Wallace State Community College), B.S.N. (Georgia Southern), M.S.N. (Jacksonville State)

Swatzell, Kelley School of Health Professions
Department of Surgical Physican Assistant Studies, Assistant Professor; Public Health

Szafarski, Magdalena College of Arts and Sciences
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