2014-2015

Undergraduate Catalog

☐ 101
☐ 201
☐ 301

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

Catalog Disclaimer

Although this catalog intends to reflect current policies or rules of The Board of Trustees of The University of Alabama referred to or incorporated herein, students are cautioned that changes or additions to such policies or rules may have become effective since the publication of this material. In the event of such a conflict, the current statements of The Board policy contained in the official minutes and manual of rules, bylaws, and guidelines shall prevail. Thus, the provisions of this catalog are not to be regarded as a contract between The Board of Trustees of The University of Alabama, The University of Alabama at Birmingham (or any of its colleges or schools) and the student. The University reserves the right to make changes as required in course offerings, curricula, academic policies, and other rules and regulations affecting students, these changes to be effective when determined by the appropriate authority within the University. These changes will govern current and formerly enrolled students, unless noted otherwise. Registration of all students is accepted subject to these conditions.

The Undergraduate Catalog is produced by the Office of the Registrar.

Table of Contents

General Information 5
Trustees and Administration 9
Academic and Student Resources 11
Admission 12
New Student Orientation 18
Student Life Activities and Organizations 19
Student Services and Facilities 27
Financial Information 35
Progress Toward a Degree 59
Completion of a Degree 69
The UAB Undergraduate Academic Experience 71
Student Academic Engagement 76
ROTC 81
College of Arts and Sciences 83
- Interdisciplinary Programs 83
  - African American Studies 84
  - American Studies 86
  - Environmental Science 87
  - Film 87
  - Gerontology 88
  - International Studies 89
  - Media Studies 93
  - Natural Science 94
  - Neuroscience 94
  - Peace, Justice and Ecology 96
  - Women's and Gender Studies 96
- Anthropology 97
- Art and Art History 99
- Biology 111
- Chemistry 117
- Communication Studies 126
- Computer and Information Sciences 129
- English 133
- Foreign Languages and Literatures 147
- Government 153
- History 155
- Justice Sciences 157
- Mathematics 161
- Music 165
- Philosophy 182
- Physics 186
- Psychology 190
- Social Work 193
- Sociology 194
- Theatre 198

Honors College 203
- EMSAP 204
- Experiential Learning Scholars 204
- Science and Technology Honors 205
- University Honors Program 207

School of Education 210
- Curriculum and Instruction 213
- Human Studies 225

School of Business 232
- Accounting and Finance 238
- Management, Information Systems, and Quantitative Methods ... 243
- Marketing, Industrial Distribution and Economics 247

School of Engineering 255
- Biomedical 261
- Civil, Construction, and Environmental 264
- Electrical and Computer 268
- Materials Science and Engineering 269
- Mechanical 272

School of Health Professions 274
- Clinical and Diagnostic Sciences 275
  - Medical Technology 275
  - Nuclear Medicine Technology 277
- Health Services Administration 279
  - Health Care Management 279

School of Nursing 283
School of Public Health 290
Core Curriculum 294
Course Descriptions 298
Faculty Listing 493
Index 531

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 has begun construction on the 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[5], 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

catalog. For information on completion of the degree programs, see the catalog of the specific school.

About the Honors College at UAB

The Honors College at UAB offers multiple challenging and engaging programs for UAB students. Each of the Honors College programs are university-wide, meaning they are open to students from a wide variety of majors, and interdisciplinary, which means they blend ideas from multiple academic disciplines. UAB's Honors College is particularly unique for the small size of its programs (about 50 incoming freshmen in each program, for a total of about 200 incoming first-year honors students), and for the diversity of programs offered.

The individual programs within the UAB Honors College are as follows:

- The Early Medical Professional School Acceptance Program
- The Experiential Learning Scholars Program
- The Global and Community Leadership Honors Program
- The Science and Technology Honors Program
- The University Honors Program

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 eeducation 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 through-out 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

The University of Alabama System Board of Trustees

The Honorable Robert Bentley

Governor of Alabama

President ex officio

Thomas R. Bice, Ed.D.

State Superintendent of Education

ex officio

Trustees

Paul W. Bryant, Jr., *President pro tempore*

Karen P. Brooks

John H. England, Jr.

Joseph C. Espy III

Ronald W. Gray

Andria Scott Hurst
John D. Johns

Vanessa Leonard

W. Davis Malone, III

Harris V. Morrissette

Finis E. St. John IV

William Britt Sexton

Marietta M. Urquhart

Kenneth L. Vandervoort, M.D.

James W. Wilson, III

Trustees Emeriti

Frank H. Bromberg, Jr.

Angus R. Cooper II

Oliver H. Delchamps, Jr.

Garry Neil Drummond

Jack Edwards

Joseph L. Fine

Sandral Hullett, M.D.
John J. McMahon, Jr.

Peter L. Lowe

Sidney L. McDonald

John T. Oliver, Jr.

Joe H. Ritch

Yetta G. Samford, Jr.

Cleophus Thomas, Jr.

John Russell Thomas

The University of Alabama System Administration

Chancellor

Robert E. Witt, Ph.D.

Secretary of the Board

Michael A. Bownes

The University of Alabama at Birmingham Administration

Ray L. Watts, M.D., President

Linda Lucas, Ph.D., Provost

Louis Dale, Ph.D., Vice President, Equity and Diversity

William Ferniany, Ph.D., Chief Executive Officer, UAB Health System

Selwyn Vickers, M.D., Senior Vice President and Dean, School of Medicine

Shirley Salloway Kahn, Ph.D., Vice President, Development, Alumni and External Affairs

Richard B. Marchase, Ph.D., Vice President, Research and Economic Development

Richard L. Margison, Vice President, Financial Affairs and Administration

Doug Rigney, Ph.D., Interim Vice President, Information Technology

Suzanne Austin, Ph.D., Vice Provost for Student and Faculty Success

Harlan M. Sands, J.D., Vice Provost for Administration and Quality Improvement

Iwan Alexander, Ph.D., Dean, School of Engineering

Doreen Harper, Ph.D., RN, Dean, School of Nursing

Eric Jack, Ph.D., Dean, Collat School of Business

Harold P. Jones, Ph.D., Dean, School of Health Professions

Max Michael III, M.D., Dean, School of Public Health

Bryan D. Noe, Ph.D., Dean, Graduate School

Rodney Nowakowski , O.D., Ph.D., Dean, School of Optometry

Robert E. Palazzo, Ph.D., Dean, College of Arts and Sciences

Michael Reddy, D.M.D., D.M.SC. Dean, School of Dentistry

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.

Entry Term	Deadline
Fall	June 1
Spring	November 1
Summer	March 15

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 includeCAS 112 andUNIV 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:

- 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?

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

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 not 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://

www.uab.edu/students/undergraduate-admissions/transfer/admissions-international/item/778-international-transfer-credits).

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.

NOTE: Applicants who have earned fewer than 24 semester hours at a postsecondary institution will also need to meet the minimum admission requirements for freshmen.

Evaluations may be requested from one of the following recommended agencies:

1. Educational Credential Evaluators, Inc. (ECE) or
2. World Education Services, Inc. (WES)

Evaluations must be sent directly from the agency to the UAB Office of International Recruitment and Student Services.

In order to receive credit toward specific degree requirements, a detailed printed syllabus or course outline (translated in English) for every course will be requested.

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 minium 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

UAB 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

Student Organizations

205-975-5376
bsync@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 walleyball); 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)

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/ or email cfaus@uab.edu. (%20cfaus@uab.edu)

Fitness & Wellness Services (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 the current schedule** here (http://www.uab.edu/campusrecreation/programs/fitness/schedules)!

- New and challenging classes are continually being offered throughout the year! Look for classes like Belly dancing, Bootcamp, Total Exhaust, Group Cycling, Aqua Xtreme. Other classes include: Ab Lab, Step-it-Up, Yoga, Pilates, Guts & Butts, Zumba, Bosu, Latin Dance, and Total Body Conditioning. **Register online** here (http://www.uab.edu/campusrecreation/2013-04-03-20-12-27/access-portal)!

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) today! Even if you are just looking for new recipes to prepare without all those added calories this is for you!
Book Your Initial Assessment or Consultation Today!

1. Purchase your initial assessment and continuing nutrition counseling sessions with Membership Services by call 205.996.5038 or visiting them at the Welcome Desk;

2. Complete the Initial Intake Form and Health History Form (http://www.uab.edu/campusrecreation/images/Documents/FIT/Fall_13/health_history_form.pdf) and email to recnutrition@uab.edu;

3. Schedule your appointment with our Registered Dietitian by calling 205.996.4885 or emailing recnutrition@uab.edu to begin your nutrition and wellness journey today!

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) and prefered days/times for your appointment to fitness@uab.edu today!

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=927a5b3b6e944220acad259198ffe8f2)

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 belay 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/youthprogramming) 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/camps/day-camps) 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/competitivesports) 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 services 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 promotes 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 academe. 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

- 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 Blazers, 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 the 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 a 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).

x placeholder for content; probably to be removed for future cycle

Fraternities and Sororities

Office of Student Involvement

Looking to excel in you 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) 934-6155 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 performs 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
UAB 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 asses 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.

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.

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

African American Studies, Art Education, Art History, Art Studio, Communication Management, English, Mass Communication, Music, Music Education, Music Technology, Philosophy, Theatre

School/Area/Advisor	Telephone
Ms. Kassie Doggett (Freshman, Sophomores and Juniors up to 75 hours)	(205) 934-6135
Ms. Brigette Weatherby (Juniors, Seniors and Post-Baccalaureate - 76 hours and above)	(205) 934-6135

Anthropology, Criminal Justice, Economics, History, International Studies, Political Science, Sociology, Social Psychology

School/Area/Advisor	Telephone
Mr. Kip Hubbard (Freshman and Sophomores)	(205) 934-6135
Ms. Deborah Littleton (Juniors, Seniors and Post-Baccalaureate)	(205) 934-6135

Biology or Natural Science

School/Area/Advisor	Telephone
Ms. Ovuke Emonina (Honors, Athletes, IDMs and Graduating Seniors)	(205) 975-4632
Ms. Britney Giles (A-K)	(205) 974-8321
Ms. Tyna Adams (L-Z)	(205) 934-6025

Chemistry

School/Area/Advisor	Telephone
Mr. Jamie Grimes	(205) 934-7529

Computer and Information Sciences

School/Area/Advisor	Telephone
Mr. John Faulkner	(205) 934-2213

Foreign Languages

School/Area/Advisor	Telephone
Mr. Kip Hubbard	(205) 934-6135

Health-Related Programs (pre-nursing)

School/Area/Advisor	Telephone
Mr. Kevin Jerrolds (Post Baccalaureate)	(205) 934-6135
Ms. Tisha Morrisey (Freshman - Seniors)	(205) 934-6135

Liberal Arts/Health Related Programs

School/Area/Advisor	Telephone
Ms. Kimberly Lowe (Freshman - Seniors)	(205) 934-6135
Mr. Andrew Meythaler (Freshman - Seniors)	(205) 934-6135

Mathematics

School/Area/Advisor	Telephone
Dr. Jeanne Hutchison	(205) 934-2154

Neuroscience

School/Area/Advisor	Telephone
Jennifer Farnham	(205) 934-6135

Physics

School/Area/Advisor	Telephone
Mr. Gary Applewhite	(205) 934-6135

Pre-Health Majors: Pre-Medicine, Pre-Dentistry, and Pre-Optometry

School/Area/Advisor	Telephone
Ms. Linda Luck (Juniors, Seniors, and Post-Baccalaureate)	(205) 934-6135
Dr. Cheryl Moser (Freshmen and Sophomores)	(205) 934-6135

Pre-Law

School/Area/Advisor	Telephone
Dr. Rob Robinson (Dept of Government)	(205) 993-2533
Dr. John Sloan (Dept of Justice Sciences)	(205) 934-2069

Psychology

School/Area/Advisor	Telephone
Ms. Jennifer Farnham	(205) 934-6135

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.

Overlooking the campus green and located between the Campus Recreation Center and Blazer Hall, the **Commons on the Green** offers something for everyone! The Commons isn't just a dining hall, y'all—it's a dining experience. It is at once a source of nourishment and of entertainment. Choose your cuisine from the Commons' offerings of grilled foods, deli favorites, pizza and pasta, classic homestyle flavors, international delicacies, vegan offerings, and soups and salads. Breakfast and lunch are priced a la carte—eat what you want, pay for what you eat—and dinner and weekend brunches are all-you-care-to-eat. And it's pretty! A modern yet comfortable interior, a panoramic view of the Campus Green, and free wifi give you a reason to linger over lunch, stop by for a study session, or just relax after class and/or hang out with friends. Upstairs **The Diner** is the ideal late night hang out open from 2pm until 2am daily. Enjoy a burger and a milkshake or shop for snacks and room essentials in the C-Store.

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, schmears, 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

UAB 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 under a separate contract. Students will be required to satisfy these eligibility standards throughout the term of their Student Housing Contract and to inform the Department of Student Housing and Residential Life of any changes in his/her status, which may affect his/her eligibility.

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 elctronically 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 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 ro 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

Day	Hours
Monday - Friday	8:00 a.m. - 12:00 p.m. and 1:00 - 5:00 p.m.

Immunizations

Day	Hours
Monday - Friday	8:00 - 11:30 a.m. and 1:00 - 4:30 p.m

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 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/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

Suite 150 • Holley-Mears Building • 924 19th Street South • Telephone (205) 934-6946.

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 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

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 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, and 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 Presidential Recognition Scholarship: A limited number of awards which provide full tuition (up to 15 semester hours per term for fall and spring only) and required fees 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 26-36 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 Monro 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 as funds are 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.)

UAB Transfer Excellence Scholarship: This two-year scholarship, valued at $1,500 per year, is reserved for transfer students with a minimum transfer GPA of 3.75, who are not members of Phi Theta Kappa.

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 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.

Program-Related Scholarships

The following are Honors College and indivdual 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 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 teh 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 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 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 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

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

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.

Kluge/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 Ghabayen 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 Ghabayen 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. Recipients 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 currently enrolled in or admitted to a degree seeking program in UAB School of Education. Preference will be given to 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 at UAB and must demonstrate solid academic promise.

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, Leeds, 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 undergraduatestudents 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

of Business with a 3.0/4.0 or better GPA. Financial need and academic promise are considered. For further information, contact the School of Business at (205) 934-8813.

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 Charted 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 so 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, show leadership and have completed 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 pursuing 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. McCarl 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.

PricewaterhouseCoopers Recruiting Scholarship: A scholarship, valued at $2,000, is awarded to an entering freshman who has demonstrated academic excellence with a GPA of at least a 3.0/4.0 and will pursue a degree in accounting. 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 who major 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.

Roberta 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 that 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 (SPPILMC): 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.

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.

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.

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. Vanzandt 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 Clinical Laboratory Sciences 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, Huntsville Hospital, Crestwood Hospital, Huntsville Diagnostic Laboratory and Humana Hospital Huntsville. 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 HIMSS 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.

Carroline Amari Endowed Scholarship: The Carroline "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 promise, 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: stablished 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 a 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. Ingalls Endowed Nursing Scholarship: Established by funds from the estate of Marie S. Ingalls, 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.

Margaret and Bradford Kidd Endowed Nursing Scholarship: Established by Margaret and William Bradford Kidd. Margaret Kidd is a member of the School of Nursing Board of Visitors. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, must have 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.

Mable E. Lamb Nursing Scholarship: Established with funds from a planned gift to honor Dr. Lamb's commitment to educating the nurses of the future. Criteria: must have a cumulative grade point average of at least 2.8 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Financial Aid.

James Coleman Lee, Sr., Endowed Nursing Scholarship: Established by Mr. and Mrs. James. C. Lee, Jr., through the Buffalo Rock Company to honor the memory of Mr. Lee's father, James Coleman Lee, Sr., this scholarship was created 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.

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.

Marie L. O'Koren School of Nursing Alumni Association Endowed Scholarship: Established with funds received from Dr. Marie L. O'Koren and members of the alumni association of the University of Alabama School of Nursing at UAB, in honor of Dr. O'Koren's many years of service as dean of the School. 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 a demonstrated financial need as determined by the UAB Office of Student Financial Aid.

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.

Emmet and Mary Anne O'Neal Endowed Nursing Scholarship: Established with gifts from family and friends of the late Emmet and Mary Anne O'Neal, who, during their lifetime, set an example of grace and benevolence for their family and for the Birmingham community. 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 a demonstrated 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 the School of Nursing, a 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. Scokel III and Mary Lou Scokel and William A. Honeycutt and Christine R. Honeycutt Endowed Scholarship: Established by Mr. and Mrs. Paul S. Scokel in honor and memory of their parents Dr. Paul W. Scokel III and Mary Lou Scokel 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 a 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 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 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 a 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 a 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 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. Early registration in April allows current students to enroll in fall semester classes on a priority basis. Class schedules are available in BlazerNET (http://www.uab.edu/blazernet) and also online http://www.uab.edu/home/academics.

Course Numbering System

Course Numbers	Primarily for:
000 - 099	Developmental Courses
100 - 199	Freshman Level
200 - 299	Sophomore Level
300 - 399	Junior Level
400 - 499	Senior Level
500 and above	Graduate Level

Undergraduate Students in Graduate Courses

With the approval of their advisor, the undergraduate program director or department chair, and the instructor, UAB undergraduate students may be allowed to register for a graduate course. Credits earned by undergraduate students may be applied to either an undergraduate degree or a graduate degree, but not both. If the student is subsequently admitted to the Graduate School, use of this credit toward a graduate degree requires the approval of the graduate program director and the Graduate School dean. (The Graduate School does not give credit for any grade below a "C".) Credits that have been used toward the baccalaureate degree cannot be used a second time toward a graduate degree.

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.

A degree student who has not registered for course work over a period of one academic year must reapply for admission to resume study as a degree-seeking student. If accepted, the student is subject to the policies of the catalog current at the time of re-enrollment.

Registration can be accomplished online through BlazerNET (http://www.uab.edu/blazernet).

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 drop/add 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 (https://www.uab.edu/students/academics/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 (http://www.uab.edu/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 a 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/one-stop/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:

Subject	Description
NSE 100-199	SA Level I Special Topics
NSE 200-299	SA Level II Special Topics
NSE 300-399	SA Level III Special Topics
NSE 400-499	SA Level IV Special Topics
NSE 500-599	SA Grad Level I Special Topics
NSE 600-699	SA Grad Level II Special Topics

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 this offense on the student's UAB academic record.

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 re-certification 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 common 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 a particular major is specified in the catalog section for 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

the Office of the Registrar, registrar@uab.edu; 1605 11th Avenue South, Birmingham, AL 35294.

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:

GPA Range	Designation
3.50 - 3.69	cum laude
3.70 - 3.89	magna cum laude
3.90 or above	summa cum laude

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/QEP), 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.

UAB 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.

Requirements		Hours
Core Curriculum Courses in Which Introduced		
CMST 101	Public Speaking	3
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
EH 101	English Composition I	3
EH 102	English Composition II	3
EH 216	Introduction to Literature	3
ENV 109	Laboratory in Environmental Science	1
FR 101	Introductory French I	4
GN 101	Introductory German I	4
MA 126	Calculus II	4
MA 252	Introduction to Differential Equations	3
PHS 101	Physical Science	4
SPA 101	Introductory Spanish I /QL	4
Core Curriculum Courses In Which Practiced and Reinforced		
AAS 200	Introduction to African-American Studies	3
ARH 204	Renaissance through Modern Art	3
EH 102	English Composition II	3
EH 217	World Literature I: Before 1660	3
EH 218	World Literature II: 1660-Present	3
EH 221	British and Irish Literature I: Before 1800	3
EH 222	British and Irish Literature II: 1800-Present	3
EH 223	American Literature I: Before 1865	3
EH 224	American Literature II: 1865-Present	3
FR 102	Introductory French II	4
FR 201	Intermediate French I	3
FR 202	Intermediate French II	3
GN 102	Introductory German II	4
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN 204	Readings in German Literature	3
PHL 100	Introduction to Philosophy	3
PHL 115	Contemporary Moral Issues	3
PHL 116	Bioethics	3
PHL 120	Practical Reasoning	3
PHL 203	Philosophy of Religion	3
SPA 102	Introductory Spanish II	4
SPA 201	Intermediate Spanish I	3
SPA 202	Intermediate Spanish II	3

THR 100	Introduction to the Theatre	3
THR 200	Plays on Film	3

Core Competency

Demonstrate an ability to make aesthetic judgments in the arts, literature, and humanities based on relevant historical, social, or philosophical contexts.

Requirements		Hours
Core Curriculum Courses in Which Introduced		
ARH 101	The Art Experience	3
EH 216	Introduction to Literature	3
MU 120	Music Appreciation	3
PHL 100	Introduction to Philosophy	3
PHL 115	Contemporary Moral Issues	3
PHL 120	Practical Reasoning	3
PHL 203	Philosophy of Religion	3
THR 100	Introduction to the Theatre	3
THR 105	Introduction to Dance	3
Core Curriculum Courses In Which Practiced and Reinforced		
ARH 203	Ancient and Medieval Art	3
ARH 204	Renaissance through Modern Art	3
ARH 206	Survey of Asian Art	3
THR 200	Plays on Film	3
EH 217	World Literature I: Before 1660	3
EH 218	World Literature II: 1660-Present	3
EH 221	British and Irish Literature I: Before 1800	3
EH 222	British and Irish Literature II: 1800-Present	3
EH 223	American Literature I: Before 1865	3
EH 224	American Literature II: 1865-Present	3

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.

Requirements		Hours
Core Curriculum Courses in Which Introduced		
AST 101	Astronomy of the Universe	3
AST 102	Astronomy of Stellar Systems	3
AST 103	Astronomy of the Solar System	3
AST 105	Extraterrestrial Life	3
BY 101	Topics in Contemporary Biology	3
CH 105	Introductory Chemistry I	3
CH 107	Introductory Chemistry II	3
CH 115	General Chemistry I	3
CH 117	General Chemistry II	3
PH 201	College Physics I	4
PH 221	General Physics I	4
PHS 101	Physical Science	4
Core Curriculum Courses In Which Practiced and Reinforced		
AST 111	Astronomy of the Universe Laboratory	1
AST 112	Astronomy of Stellar Systems Laboratory	1
AST 113	Astronomy of the Solar Systems Laboratory	1
AST 115	Extraterrestrial Life Laboratory	1
BY 101	Topics in Contemporary Biology	3
BY 102	Topics Contemporary Biology Laboratory	1
BY 112	Ext Topics Contemporary Biology Laboratory	1
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
CH 105	Introductory Chemistry I	3
CH 106	Introductory Chemistry I Laboratory	1
CH 107	Introductory Chemistry II	3
CH 108	Introductory Chemistry II Laboratory	1
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
PH 201	College Physics I	4
PH 202	College Physics II	4
PH 221	General Physics I	4
PH 222	General Physics II	4

Core Competency

Demonstrate the ability to apply mathematical skills and quantitative reasoning to solve problems and interpret information.

Requirements		Hours
Core Curriculum Courses in Which Introduced		
FR 101	Introductory French I	4
MA 105	Pre-Calculus Algebra	3
MA 106	Pre-Calculus Trigonometry	3
MA 107	Precalculus Algebra and Trigonometry	4
MA 109	Survey of Calculus	3
MA 110	Finite Mathematics	3
PHL 120	Practical Reasoning	3
PHS 101	Physical Science	4
SPA 201	Intermediate Spanish I	3
Core Curriculum Courses In Which Practiced and Reinforced		
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
MA 260	Introduction to Linear Algebra	3
PH 201	College Physics I	4
PH 202	College Physics II	4
PH 221	General Physics I	4
PH 222	General Physics II	4

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.

Requirements		Hours
Core Curriculum Courses in Which Introduced		
AAS 200	Introduction to African-American Studies	3
ANTH 101	Introduction to Cultural Anthropology	3
ANTH 106	Introductory Archaeology	3
ENV 108	Human Population and the Earth s Environment	3
ENV 109	Laboratory in Environmental Science	1
ITS 101	Introduction to International Studies	3
PHL 100	Introduction to Philosophy	3

PHL 115	Contemporary Moral Issues	3
PHL 116	Bioethics	3
PHL 120	Practical Reasoning	3
PHL 125	Introduction to Ethics	3
PSC 101	Introduction to American Government	3
PSC 102	Introduction to Comparative Politics	3
PY 101	Introduction to Psychology	3
SOC 100	Introduction to Sociology	3
WS 100	Introduction to Women's and Gender Studies	3
Core Curriculum Courses In Which Practiced and Reinforced		
ANTH 120	Language and Culture	3
EC 210	Principles of Microeconomics	3
EC 211	Principles of Macroeconomics	3
HY 102	Western Civilization II	3
HY 105	World History 1600 to the Present	3
HY 121	The United States Since 1877	3
PHL 203	Philosophy of Religion	3
PSC 221	American State and Local Government	3
PY 212	Developmental Psychology	3
SOC 245	Contemporary Social Problems	3

Core Competency

Demonstrate knowledge of contemporary and/or historical issues.

Requirements		Hours
Core Curriculum Courses in Which Introduced		
AAS 200	Introduction to African-American Studies	3
ANTH 101	Introduction to Cultural Anthropology	3
ANTH 106	Introductory Archaeology	3
ANTH 120	Language and Culture	3
CMST 105	Introduction to Human Communication	3
ENV 108	Human Population and the Earth s Environment	3
ENV 109	Laboratory in Environmental Science	1
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 104	World History to 1600	3
HY 105	World History 1600 to the Present	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3
ITS 101	Introduction to International Studies	3
PHL 100	Introduction to Philosophy	3
PHL 115	Contemporary Moral Issues	3
PHL 116	Bioethics	3
PHL 120	Practical Reasoning	3
PHL 125	Introduction to Ethics	3
PY 101	Introduction to Psychology	3
SOC 100	Introduction to Sociology	3
WS 100	Introduction to Women's and Gender Studies	3
Core Curriculum Courses In Which Practiced and Reinforced		
EH 217	World Literature I: Before 1660	3
EH 218	World Literature II: 1660-Present	3
EH 221	British and Irish Literature I: Before 1800	3
EH 222	British and Irish Literature II: 1800-Present	3
EH 223	American Literature I: Before 1865	3
EH 224	American Literature II: 1865-Present	3
PHL 203	Philosophy of Religion	3
PSC 221	American State and Local Government	3
PY 212	Developmental Psychology	3
SOC 245	Contemporary Social Problems	3

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 in to 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.).
3. Permission of UAB Office for Study Away and/or Faculty Leader.

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.

Subject	Description
INAB	Study Away Arabic
INAH	Study Away Art History
INAN	Study Away Anthropology
INAR	Study Away Art History
INBY	Study Away Biology
INCH	Study Away Chinese
INEH	Study Away English
INGN	Study Away German
INHY	Study Away History
INIS	Study Away International Studies
INJP	Study Away Japanese
INME	Study Away Mechanical Engineering
INMG	Study Away Management
INMK	Study Away Marketing
INPE	Study Away Physical Education
INPS	Study Away Political Science
INPY	Study Away Psychology
INSP	Study Away Spanish
INTL	Study Away Special Topics

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:

Subject	Description
INTL 100-199	Study Away Level I Special Topics
INTL 200-299	Study Away Level II Special Topics
INTL 300-399	Study Away Level III Special Topics
INTL 400-499	Study Away Level IV Special Topics
INTL 500-599	Study Away Graduate Level I Special Topics
INTL 600-699	Study Away Graduate Level II Special Topics

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:

Subject	Description
NSE 100-199	Study Away Level I Special Topics
NSE 200-299	Study Away Level II Special Topics
NSE 300-399	Study Away Level III Special Topics
NSE 400-499	Study Away Level IV Special Topics
NSE 500-599	Study Away Graduate Level I Special Topics
NSE 600-699	Study Away Graduate Level II Special Topics

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 of said host institution. If an institution assigns a pass/fail grade on the official host institution transcript, then the UAB transcript will reflect such a pass/fail final grade.

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.

For More Information on Undergraduate Research

- Visit Heritage Hall 527
- http://www.uab.edu/undergraduate-research
- http://www.facebook.com/UABUndergradResearch
- 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 Barbee, 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

meet entry requirements or have special permission from the Professor of Aerospace Studies. Air Force ROTC students can gain confidence, leadership training, communication skills, and an appreciation for the role of the military in contemporary society. Call (205) 726-2859 for complete information.

General Military Course

The General Military Course consists of:

Requirements		Hours
AFS 101	Air Force Today	1
AFS 102	Air Force Today	1
AFS 201	Development of Air Power	1
AFS 202	Development of Air Power	1

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.

Three-year and two-year scholarships are also available to college students. Air Force ROTC scholarships pay college tuition, laboratory fees, incidental fees, and books. Scholarship students also receive a monthly tax-free stipend ranging from $150 to $400 depending on academic year in school. Family income has no bearing on eligibility for an award. For additional information, contact the Aerospace Studies Department at (205) 726-2859. Uniforms and textbooks for all aerospace studies courses are provided at no charge.

Leadership Laboratory

Leadership Laboratory is an integral part of the Air Force ROTC program. It provides an opportunity for students to apply classroom teachings to actual environments. Each course has an associated leadership laboratory. The laboratory meets for two hours each week during the term. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop leadership potential. Leadership Laboratory involves a study of the life and work of Air Force junior officers. Students develop their leadership potential in a practical, supervised laboratory, which typically includes field trips to Air Force installations throughout the United States.

The first two years of Leadership Laboratory involve activities classified as initial leadership experiences. This includes studying Air Force customs, courtesies, drill, and ceremonies; giving military commands; instructing, correcting, and evaluating the preceding skills; studying the environment of an Air Force base; and learning about career opportunities available to commissioned officers. The last two years of Leadership Laboratory consist of activities classified as advanced leadership experiences. They involve planning, organizing, coordinating, directing, and controlling the military activities of the cadet corps; preparing and presenting briefings and other oral and written communications; and providing interviews, guidance, and information to increase the understanding, motivation, and performance of other cadets.

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 officership 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

Requirements		Hours
All courses must take accompanying Leadership Lab		
AFS 101	Air Force Today *	1
AFS 102	Air Force Today *	1
AFS 201	Development of Air Power *	1
AFS 202	Development of Air Power *	1
AFS 300	Field Training *	2
AFS 301	Air Force Leadership and Management	3
AFS 302	Air Force Leadership and Mgt	3
AFS 401	National Security Policy	3
AFS 402	Air Force Policy and Process	3
Total Hours		18

* 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.

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 insure 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 making them better prepared to work creatively and productively with others to solve the most important problems of our times.

Honors programs and honors level study are offered in almost every department, along with mentored research and study abroad for interested students. Our metropolitan location provides an endless number of internship placements coordinated with an academic program of study. Each year many of our students pursue at least one of these opportunities.

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. 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, Leagal 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

Requirements		Hours
AAS 200	Introduction to African-American Studies	3
AAS 325	Black Psychology	3
AAS 330	African Aesthetics and Traditional Religion	3
AAS 420	Public Health and Medical Issues in African Communities	3
AAS 493	Capstone Seminar	3
or AAS 495	Individual Studies	
Required Writing and Research Course		
Select one of the following:		3
AAS 350	Research Methods in African American Studies	
EH 205	Introduction to Creative Writing	
EH 301	Reading, Writing, and Research for English Majors	
CMST 210	Newswriting and Reporting I	
English Courses		
Select two of the following:		6
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 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	
History Courses		
Select two of the following:		6
HY 223	African-American History to 1865	
HY 224	African-American History Since 1865	
HY 289	Topics in African American History	
HY 304	U.S. Civil Rights Movement	
HY 389	Topics in African American History	
Approved Electives		
Select three of the following:		9
AAS 165	Jazz Styles: History and Appreciation (CA)	
AAS 220	History of Sport: The African American Experience	
AAS 250	Special Topics in African-American Studies	
AAS 300	African American Music (CA)	
AAS 301	History and Tradition of Gospel Music	
AAS 310	Black Image: Screen and Television (GJ)	
AAS 320	African Identity/Personality	
AAS 400	Seminar in African American Studies	

AAS 490	African American Studies Internship
ANTH 244	Peoples of the World: Africa
ARH 205	African/Native American/Oceanic Art
ARH 405	African Art (CA)
ARH 468	Race and Representation (CA)
DCS 401	Ethnographic Filmmaking/SL (GJ & PA)
GER 455	Minority Aging (GJ & PA)
JS 442	Race, Crime, Gender and Social Policy (GJ)
MU 365	The Evolution of Jazz (CA)
PSC 318	Politics and Race in America (GJ)
PSC 350	African Politics
PY 413	Psychology of the African American Child (HM)
SOC 250	Race and Ethnic Relations (GJ & PA)
SOC 282	Minority Health
SOC 350	Sociology of Hip Hop
SW 207	Racism, Sexism and Other Isms
THR 300	Exploring the African-American Creative Experience (CA)
Total Hours	39

Minor Requirements for African American Studies

Requirements		Hours
Select 6 courses from the following courses:		
AAS 200	Introduction to African-American Studies	
AAS 220	History of Sport: The African American Experience	
AAS 250	Special Topics in African-American Studies	
AAS 300	African American Music	
AAS 301	History and Tradition of Gospel Music	
AAS 310	Black Image: Screen and Television	
AAS 320	African Identity/Personality	
AAS 325	Black Psychology	
AAS 330	African Aesthetics and Traditional Religion	
AAS 350	Research Methods in African American Studies	
AAS 420	Public Health and Medical Issues in African Communities	
Total Hours:		18

Proposed Program of Study for a Major in African-American Studies

Freshman		
First Term	**Hours Second Term**	**Hours**
EH 101	3 EH 102	3
AAS 200	3	
	6	**3**
Sophomore		
First Term	**Hours Second Term**	**Hours**
HY 223	3 AAS 300	3
AAS 290	3 HY 224	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
AAS 320	3 AAS 310	3
AAS 330	3 EH 366	3
EH 365	3	
	9	**6**
Senior		
First Term	**Hours Second Term**	**Hours**
AAS 400	3 AAS 420	3
	AAS 495	3
	3	**6**

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

Requirements		Hours
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 464	Art Since 1945	
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	
EH 466	The Slave Narrative and Its Literary Expressions	
EH 468	The Harlem Renaissance	
PHL 348	American Philosophy	
Social and Behavorial 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 100	Introduction to Social Work	
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	

HY 305	Popular Culture in American History	
HY 307	The American Film	
HY 308	History of Popular Music in the United States	
HY 309	American Film in the 1980s and 1990s	
HY 312	Rock n Roll and Race Relations	
HY 322	The Great Depression in Film	
HY 325	Southern Politics in the 20th Century	
HY 326	Mansions, Mines, and Jim Crow	
HY 327	Southern Labor History	
HY 388	History of American Medicine	
HY 403	Colonial American History to 1765	
HY 405	War and Society in Early America	
HY 407	Frontiers of Early America 1492-1815	
HY 409	U.S. Constitutional History to 1877	
HY 410	U. S. Constitutional History Since 1877	
HY 413	Reconstruction in America	
HY 416	The Fifties in America	
HY 417	The Making of Modern America 1877-1920	
HY 418	America in the 1920s and 1930s	
HY 420	Recent America 1945 to the Present	
HY 411	The Antebellum South	
HY 412	The American Civil War	
HY 414	The New South, 1877 to 1945	
HY 423	Southern Women: Image and Reality	
HY 424	Emergence of Modern America 1877-1945	
HY 427	History of American Technology	
HY 428	Technology and American Life	
HY 429	Workers in American Society	
HY 430	U. S. Labor History	
HY 431	American Film and Violent Society	
HY 435	American Urban History	
HY 438	The Changing American Landscape	
HY 439	American Environmental History	
Total Hours		21

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

Requirements		Hours
Required Biology Courses [1]		
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
ES 101 & ES 102	Physical Geology and Physical Geology Laboratory	4
ENV 108 & ENV 109	Human Population and the Earth s Environment and Laboratory in Environmental Science	4
Biology Electives		
Select three courses from the following groups:		9
Biology		
BY 260	Botany	
BY 397	Advanced Directed Readings	
BY 267	Tropical Ecology	
BY 435	Natural History of Vertebrates	
BY 452	Field Botany	
BY 465	Limnology	
BY 470	Ecology	
Civil Engineering		
CE 433	Solid and Hazardous Wastes Management	
CE 434	Air Quality Modeling and Monitoring	
Chemistry		
CH 297	Undergraduate Research Experiences	
CH 355	Quantitative Analysis	
Marine Environmental Science		
MESC 302	Coastal Zone Management	
MESC 411	Costal Wetlands Ecology	
MESC 412	Marine Ecology	
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

Requirements		Hours
Concentration Sequence		
Select one of the following groups:		9
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	
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/ HON 316/ ARS 407	Ethnographic Filmmaking/SL	
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 201/ HY 311	History of Documentary Film	
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 Filmaking	
HY 207	The American Film	
HY 307	The American Film	
HY 208	Women in Film	
HY 309	American Film in the 1980s and 1990s	
HY 431	American Film and Violent Society	
HY 432	Labor History in Film	
MU 245	Recording Technology I	
MU 441	Multimedia Productions	
PSC 270	Law and Film	
THR 102	Introduction to Cinema,Introduction to Cinema	
THR 126	Film Technology: Cinematography, Audio and Editing	
THR 200	Plays on Film	
THR 216	Screenwriting I	
THR 277	Filmmaking I	
THR 279	Cinematography	
THR/FLL 303	History of Film I: Origins to 1960	
THR 304	History of Film II: 1960 to Present	
THR 316	Screenwriting II	
THR 374	Video Editing	
THR 375	Filmmaking II	
THR 376	Filmmaking III	
THR 377	Acting for the Camera	
THR 378	Film Directing	
THR 475	Filmmaking IV	
THR 478	Music Video Production	
THR 480	Individual Project in Film	
THR 492	Film Internship/Capstone	
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

Requirements		Hours
Required Gerontology Courses		
GER 280	Biology of Aging	3
GER 425	Psychology of Aging	3
GER 469	Sociology of Aging	3
Practicum or Independent Reading/Research Project		
Complete a practicum or independent reading or research project for three credit hours. See your advisor for details.		3
Gerontology Electives		
Select six hours from Gerontology (GER) courses		6
Total Hours		18

Grade Requirement

A grade if 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

Requirements		Hours
Required International Studies		
PSC 103	Introduction to International Relations	3
FLL 120	Foreign Cultures	3
ITS 470/ PSC 402	Seminar in International Studies	3
or ITS 471/ PSC 403	Seminar in International Studies	
ITS Internship		
ITS 482	Internship in International Affairs	3
Economic Awareness		
Select one of the following:		3
ANTH 318	Anthropology of Development	
ANTH 365	Economic Anthropology	
EC 210	Principles of Microeconomics	
EC 211	Principles of Macroeconomics	
EC 304	Microeconomics	
EC 305	Macroeconomics	
EC 405	Economic Development and Growth	
EC 407	International Economics	
MG 305	Nonprofit Organization Mgmt	
PSC 355	Politics of Development	
PSC 461	International Political Economy	
Socio-Political Concentration		
Select three of the following courses, from at least two different departments:		9
ANTH 242	Peoples of World/South America Indians	
ANTH 244	Peoples of the World: Africa	
ANTH 245	Peoples of the World:Mediterranean	
ANTH 247	Peoples of the World: Oceania	
ANTH 248	Peoples of the World: Latin America	
ANTH 290	Study Abroad: Chilapa, Guerrero, Mexico	
ANTH 299	Contemporary Global Issues	
ANTH 330	Nationalism Ethnicity and Violence	
ANTH 351	Anthropology of Human Rights	
ANTH 360	Ecological Anthropology	
ANTH 361	Kinship and Social Organization	
ANTH 459	Politics, Drugs and Society in Latin America	
HY 234	The World Since 1945	
HY 245	Introduction to Latin American History	
HY 247	Indians, Spaniards & Creoles	

HY 248	Modern Latin America
HY 257	The Celtic Fringe: Ireland, Scotland, Wales
HY 258	Britain and the Third World
HY 262	Introduction to Early Modern Spanish History
HY 263	History of the Russian Empire
HY 265	History of the Soviet Union 1917-1991
HY 272	Modern East Asia
HY 315	Egypt in the Age of the Pyramids
HY 316	Imperial and Post-Inperial Egypt
HY 317	History of Ancient Greece
HY 318	History of the Roman Empire
HY 319	Late Antiquity and Early Middle Ages
HY 337	Eastern Europe 1600-1918
HY 338	Eastern Europe 1914-Present
HY 341	US-Latin American Relations
HY 342	Sex & Latin American Society
HY 343	Modern Latin America
HY 355	The Reformation
HY 360	The Celtic Fringe: Ireland, Scotland, Wales
HY 361	Britain and the Third World
HY 375	The Pacific War, 1931-1945
HY 376	Japan and the United States
HY 377	Modern East Asia
HY 419	The Second World War
HY 421	The Vietnam Wars, 1945-1975
HY 446	Nations of the Andes
HY 447	Modern Mexico
HY 453	Clash of Civilizations
HY 456	Seventeenth-Century Europe: Absolutism, Revolution and Science
HY 457	Nineteenth-Century Europe
HY 458	Modern Europe
HY 460	Ancient and Medieval Britain
HY 461	English History: 1307-1660
HY 462	Early Modern Britain
HY 463	Victorian Britain
HY 464	Modern Great Britain
HY 466	The French Revolution
HY 467	Modern France 1815 - Present
HY 468	German Catastrophe 1815-2012
HY 469	Stalin and Stalinism
HY 470	The Soviet Union Since 1953
HY 471	Russian Intellectual History
HY 472	Terror and Terrorism from French Revolution to Present
HY 475	Modern China
HY 476	Japan to the 19th Century
HY 477	Modern Japan
JS 115	Comparative Criminal Justice Systems
PSC 102	Introduction to Comparative Politics
PSC 260	American Foreign Policy
PSC 266/466	The United Nations
PSC 350	African Politics
PSC 351	European Political Systems
PSC 352	Latin/South American Political Systems
PSC 353	Asian Political Systems
PSC 354	East European Politics
PSC 360	International Security
PSC 361	North/South International Relations
PSC 362	Diplomacy
PSC 363	Nationalism in World Politics
PSC 465	International Law
SOC 200	Social Change
SOC 278	Global and International Sociology
SOC 279	Contemporary China
SOC 335	Human Sexuality: A Comparative Approach
SOC 370	Population Problems
SOC 480	Sociology of Health and Illness

Cultural Literacy

Select three of the following courses, from at least two different departments:		9
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 Spainsh 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	

PSC 104	Introduction to Political Theory	
PSC 341	Classical Political Thought	
PSC 342	Modern Political Theory	
Electives		
Students must take six semester hours from any of the above approved list of courses AND/OR from the list below:		6
ANTH 123	Comparative Cultures through Films	
ANTH 207	Introduction to Egyptian Archaelogy	
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 301	Origins of Epidemics: How Public Health Defines Population and Nations	
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. Geographic 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

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 110	3	Core Curriculum Area II: Foreign Language	4
PSC 103	3	Core Curriculum Area IV: History	3
Core Curriculum Area IV: History	3	Core Curriculum Area IV: Social or Behavioral Sciences	3
Core Curiculum Area II: Fine Art	3	General Elective	3
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
FLL 120	3	International Studies Major Courses	6
International Studies Major Course	3	Core Curriculum Area III: Natural Science with Laboratory	4
Core Curriculum Area II: Literature	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area II: Foreign Language	4	Foreign Language (200-level)	3
Core Curriculum Area III: Natural Science with Lab	4		
	17		**16**

Junior

First Term	Hours	Second Term	Hours
ITS 470	3	International Studies Major Course (300-level or above)	3
International Studies Major Course	3	International Studies Major Course (400 level)	3
Forgeign Language (200-level)	3	Minor	3
Minor	3	General Elective	6
General Elective	3		
	15		**15**

Senior

First Term	Hours	Second Term	Hours
International Studies Major Course (300 level or above)	3	International Studies Major Course	6
International Studies Major Course (400-level)	3	General Electives	9
General Electives	9		
	15		**15**

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

Requirements		Hours
Required Courses		
PSC 103	Introduction to International Relations	3
FLL 120	Foreign Cultures	3
ITS 470	Seminar in International Studies	3
or ITS 471	Seminar in International Studies	
International Studies Electives		9
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 Archaelogy	
ANTH 225	Mesoamerican Archaeology	

ANTH 231	Archaeology of the Origins of Civilization in Egypt, Mesopotamia, and the Mediterranean
ANTH 242	Peoples of World/South America Indians
ANTH 244	Peoples of the World: Africa
ANTH 245	Peoples of the World:Mediterranean
ANTH 247	Peoples of the World: Oceania
ANTH 248	Peoples of the World: Latin America
ANTH 290	Study Abroad: Chilapa, Guerrero, Mexico
ANTH 299	Contemporary Global Issues
ANTH 304	Looking at Earth: Maps Satellite Images and GIS
ANTH 305	World Prehistory
ANTH 318	Anthropology of Development
ANTH 319	Food and Culture
ANTH 320	Comparative Religion
ANTH 357	Anthropology of Gender
ANTH 360	Ecological Anthropology
ANTH 361	Kinship and Social Organization
ANTH 365	Economic Anthropology
ANTH 366	Urban Anthropology
ANTH 370	Music in World Cultures
ANTH 447	Advanced Peace Studies
ANTH 450	Advanced Cultural Anthropology
ARH 101	The Art Experience
ARH 203	Ancient and Medieval Art
ARH 204	Renaissance through Modern Art
ARH 206	Survey of Asian Art
EC 405	Economic Development and Growth
EC 407	International Economics
EH 217	World Literature I: Before 1660
EH 218	World Literature II: 1660-Present
EH 242	Greek and Roman Mythology
EH 421	World Literature
EH 422/522	African Literature
EH 423/523	African Women's Literature
FLL 220	Foreign Literatures in English Translation
FLL 303	History of World Movies I: The Origins to 1960
FLL 304	History of World Movies II
FLL 305	Borders and Crossings inside the Global Village
FLL 485	Foreign Language Capstone Seminar
HY 234	The World Since 1945
HY 237	Eastern Europe 1600-1918
HY 238	Eastern Europe 1914-Present
HY 239	The Holocaust
HY 245	Introduction to Latin American History
HY 247	Indians, Spaniards & Creoles
HY 248	Modern Latin America
HY 251	Nineteenth-Century Europe
HY 252	Twentieth Century Europe
HY 257	The Celtic Fringe: Ireland, Scotland, Wales
HY 258	Britain and the Third World
HY 262	Introduction to Early Modern Spanish History
HY 263	History of the Russian Empire
HY 264	Russian Revolution: 1917-1921
HY 265	History of the Soviet Union 1917-1991
HY 271	Traditional East Asian History and Culture
HY 272	Modern East Asia
HY 285	Mapping Our World
HY 315	Egypt in the Age of the Pyramids
HY 316	Imperial and Post-Inperial Egypt
HY 317	History of Ancient Greece
HY 318	History of the Roman Empire
HY 319	Late Antiquity and Early Middle Ages
HY 341	US-Latin American Relations
HY 342	Sex & Latin American Society
HY 343	Modern Latin America
HY 353	The Christians in History
HY 355	The Reformation
HY 357	Religion in Early Modern European History
HY 360	The Celtic Fringe: Ireland, Scotland, Wales
HY 361	Britain and the Third World
HY 370	End of the U.S.S.R.
HY 371	Traditional East Asian History and Culture
HY 375	The Pacific War, 1931-1945
HY 376	Japan and the United States
HY 377	Modern East Asia
HY 419	The Second World War
HY 421	The Vietnam Wars, 1945-1975
HY 422	Ethnic Cleansing & Genocide 1912-2012
HY 446	Nations of the Andes
HY 447	Modern Mexico
HY 453	Clash of Civilizations
HY 454	Topics in Middle Eastern History
HY 455	Renaissance and Reformation
HY 456	Seventeenth-Century Europe: Absolutism, Revolution and Science
HY 457	Nineteenth-Century Europe
HY 458	Modern Europe
HY 459	Spain and the Spainsh Inquisition
HY 460	Ancient and Medieval Britain
HY 461	English History: 1307-1660
HY 462	Early Modern Britain
HY 463	Victorian Britain
HY 464	Modern Great Britain
HY 465	French Enlightenment
HY 466	The French Revolution
HY 467	Modern France 1815 - Present
HY 468	German Catastrophe 1815-2012
HY 469	Stalin and Stalinism
HY 470	The Soviet Union Since 1953
HY 471	Russian Intellectual History
HY 472	Terror and Terrorism from French Revolution to Present
HY 475	Modern China
HY 476	Japan to the 19th Century
HY 477	Modern Japan
ITS 482	Internship in International Affairs
JS 115	Comparative Criminal Justice Systems
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
PSC 102	Introduction to Comparative Politics
PSC 104	Introduction to Political Theory
PSC 260	American Foreign Policy

PSC 266/466	The United Nations
PSC 341	Classical Political Thought
PSC 342	Modern Political Theory
PSC 350	African Politics
PSC 351	European Political Systems
PSC 352	Latin/South American Political Systems
PSC 353	Asian Political Systems
PSC 354	East European Politics
PSC 355	Politics of Development
PSC 360	International Security
PSC 361	North/South International Relations
PSC 362	Diplomacy
PSC 363	Nationalism in World Politics
PSC 461	International Political Economy
PSC 465	International Law
PUH 301	Origins of Epidemics: How Public Health Defines Population and Nations
PUH 302	Epid: Beyond the Outbreak
PUH 303	Intro Global Health
PY 319	Psychopathology and Culture
SOC 200	Social Change
SOC 278	Global and International Sociology
SOC 279	Contemporary China
SOC 335	Human Sexuality: A Comparative Approach
SOC 370	Population Problems
SOC 480	Sociology of Health and Illness
Total Hours	18

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:		9
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:		6
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:		3
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

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 shoud 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
cmcfarla@uab.edu

Dr. Anne Theibert
Program Director, Undergraduate Neuroscience
Associate Professor of Neurobiology
(205) 934-7278
theibert@nrc.uab.edu

Jan Phillips
Neuroscience Program Assistant
Administrative Assistant
(205) 934-2542
jphillips@nrc.uab.edu

Major Requirements for Neuroscience

Requirements		Hours
Biology		
BY 123	Introductory Biology I (not exempted by APA credit)	4
BY 124	Introductory Biology II	4
Chemistry		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
CH 235 & CH 236	Organic Chemistry I and Organic Chemistry I Laboratory	4
CH 237 & CH 238	Organic Chemistry II and Organic Chemistry II Laboratory	4
CH 460	Fundamentals of Biochemistry	3
Psychology and Neurobiology		
PY 101	Introduction to Psychology (not exempted by AP credit)	3
NBL 330	Neuroscience: Brain Function and Dysfunction	3
NBL/PY 355	Introduction to Neuroscience	3
NBL/PY 356	Introduction to Neuroscience II	3
Neuroscience Colloquium		
This course is to be taken at least twice.		2
NBL/PY 401	Neuroscience Colloquium (This course is required for sophomores and juniors; optional for freshmen and seniors.)	
Advanced Neuroscience Courses		
Select two courses from the following		6
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		8
PH 201 & 201L	College Physics I and College Physics Laboratory I	
PH 202	College Physics II	
PH 221 & 221L	General Physics I and General Physics Laboratory I	
PH 222 & 222L	General Physics II and General Physics Laboratory II	
General		
MA 125	Calculus I	4
PHL 116	Bioethics	3
Statistics		
Select one of the following:		3-4
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		Hours
Minor Requirements for Peace, Justice and Ecology		
Requirements		
Peace, Justice & Ecology Foundation Courses		
ANTH 104	Introduction to Peace Studies	3
ANTH 483	Intern in Peace, Justice and Environmental Study	3
or ANTH 447	Advanced Peace Studies	
Peace, Justice & Ecology Electives		
Select four of the following:		12
ANTH 101	Introduction to Cultural Anthropology	
ANTH 106	Introductory Archaeology	
ANTH 299	Contemporary Global Issues	
ANTH 357	Anthropology of Gender	
ANTH 460	Historical Ecology	
BY 407	Microbial Ecology	
BY 470	Ecology	
CE 236	Environmental Engineering	
CE 433	Solid and Hazardous Wastes Management	
CE 441	Civil Engineering Honors Seminar	
EC 308	Economics of Environment	
EH 214	Introduction to Literature: Special Topics	
EH 392	Special Topics in Literature	
ENH 400	Our Global Environment: Issues and Challenges	
ENH 405	Nature vs. Nurture: Genes, Environment and Health	
ENV 108	Human Population and the Earth s Environment	
ES 101	Physical Geology	
ES 109	Planet Earth	
HE 141	Personal Health	
HE 223	Introduction to Epidemiology and Disease Impact	
HY 303	Women in American History	
HY 304	U.S. Civil Rights Movement	
HY 402	Reacting to the Past	
HY 480	Historic Preservation and Public Policy	
JS 380	Media, Crime & Justice	
PHL 115	Contemporary Moral Issues	
PHL 116	Bioethics	
PHL 321	Cooperation and Competition	
SOC 200	Social Change	
SOC 280	Introduction to Medical Sociology	
SOC 431	Environmental Sociology	
SOC 470	Urban Ecology	
SW 208	Disaster Preparedness	
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

Requirements		Hours
Required Women’s and Gender Studies courses		
WS 100	Introduction to Women’s and Gender Studies [1]	3
WS 400	Theory and Practice of Women’s and Gender Studies: Senior Seminar	3
Women’s and Gender Studies Electives [2]		
Select four of the following:		12
ANTH 357	Anthropology of Gender	
ARH 483	Special Topics: Gender and the Visual Arts	
EH 423	African Women’s Literature	
EH 444	Women’s Literature and Theory	
EH 460	American Women Writers Before 1900	
EH 467	Black Women Writers	

HY 208	Women in Film
HY 303	Women in American History
HY 342	Sex & Latin American Society
HY 423	Southern Women: Image and Reality
HY 445	History of Women Latin America
JS 442	Race, Crime, Gender and Social Policy
JS 443	Women and the Criminal Justice System
PSC 322	Women and Politics
PSC 316	Human Rights
PY 108	Human Sexuality
PY 420	Special Topics in Psychology
SOC 135	Human Sexuality
SOC 220	Sociology of Sex and Gender
SOC 240	Family Conflict and Violence
SOC 335	Human Sexuality: A Comparative Approach
SOC 482	Gender and Health
SOC 490/ WS 480	Independent Study: Sociology
SOC 491	Independent Study and Special Courses in Sociology
SW 207	Racism, Sexism and Other Isms
WS 280	Special Topics in Women's and Gender Studies
WS 380	Special Topics: Women's and Gender Studies
WS 480	Special Topics in Women's and Gender Studies
Total Hours	18

1 Note: WS 100 may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.

2 Or seek approval for those not listed.

The following is not a comprehensive list of courses; other courses can be considered for credit in the Women's and Gender Studies Program. For full descriptions of courses other than Women's and Gender Studies, refer to the appropriate department's course listings in this catalog. Note: Special topics courses with the same numerical designation may be repeated for credit. However, courses with the same content may not be repeated.

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. In 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 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		Hours
Required Anthropology Courses [1]		
ANTH 101	Introduction to Cultural Anthropology	3
ANTH 102	Introduction to Biological Anthropology	3
ANTH 106	Introductory Archaeology	3
ANTH 120	Language and Culture	3
Advanced Anthropology		
Select two of the following Capstones:		6
ANTH 450	Advanced Cultural Anthropology	
ANTH 451	Advanced Archaeological Anthropology	
ANTH 452	Advanced Linguistic Anthropology	
ANTH 453	Advanced Biological Anthropology	
Select 18 credit hours in Anthropology (ANTH) [2]		18
Total Hours		36

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			
First Term	**Hours**	**Second Term**	**Hours**
EH 101	3	EH 102	3
MA 110	3	ANTH 106	3
ANTH 101	3	ANTH 120	3
Core Curriculum Area IV: History[1]	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area II: Fine Arts[2]	3	Core Curriculum Area IV: History[1]	3
	15		**15**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
ANTH 102	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area II: Literature[3]	3	Core Curriculum Area III: Natural Science with Laboratory	4
Core Curriculum Area III: Natural Science with Laboratory	4	Anthropology (ANTH) Elective	3
Minor	3	Minor	3
General Elective	3	General Elective	3
	16		**16**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
ANTH 450	3	Advanced Anthropology Course[4]	3
Anthropology (ANTH) Elective (300-level or above)	3	Anthropology (ANTH) Elective	3
Minor	3	Minor	3
General Elective	6	General Elective	6
	15		**15**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
Anthropology (ANTH) Elective (400 level)	3	Anthropology (ANTH) Elective (300-400 level)	3
Anthropology (ANTH) Elective	3	Minor	3
Minor	3	General Elective	7-9
General Elective	6		
	15		**13-15**

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 [1]

Requirements		Hours
Introductory Anthropology Courses		
Select three of the following: [2]		9
ANTH 101	Introduction to Cultural Anthropology	
ANTH 102	Introduction to Biological Anthropology	
ANTH 106	Introductory Archaeology	
ANTH 120	Language and Culture	
Advanced Anthropology Courses		
Select one of the following:		3
ANTH 450	Advanced Cultural Anthropology	
ANTH 451	Advanced Archaeological Anthropology	
ANTH 452	Advanced Linguistic Anthropology	
ANTH 453	Advanced Biological Anthropology	
Anthropology Electives		
Select 6 credit hours from Anthropology (ANTH) courses		6
Total Hours		18

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.

Requirements		Hours
Anthropology Courses		
ANTH 101	Introduction to Cultural Anthropology	3
ANTH 102	Introduction to Biological Anthropology	3
ANTH 106	Introductory Archaeology	3
ANTH 120	Language and Culture	3
Anthropology Elective		
Select two of the following:		6
ANTH 450	Advanced Cultural Anthropology	
ANTH 451	Advanced Archaeological Anthropology	
ANTH 452	Advanced Linguistic Anthropology	
ANTH 453	Advanced Biological Anthropology	

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

Requirements		Hours
Option 1		
SOC 410	Social Statistics [1]	4
CS 201	Introduction to Object Oriented Programming	4
Total Hours		8

Requirements		Hours
Option 2		
SOC 410	Social Statistics [1]	4
Two courses in a foreign language (or demonstrated proficiency at the 102 level		8
Total Hours		12

Requirements	Hours
Option 3	
Three courses in a foreign language, including one at the 200 level or above (or demonstrated proficiency at the 200 level)	9-11
Total Hours	9-11

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)

Requirements		Hours
Freshman Year Experience [1]		
College of Arts and Sciences Freshman Year Experience course		1
Art Survey		
ARH 203	Ancient and Medieval Art	3
ARH 204	Renaissance through Modern Art	3
ARH 206	Survey of Asian Art	3
Art Studio Requirement		
Select two of the following:		6

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	
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 Renasissance 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 465	Aspects of Contemporary Art	
ARH 467	Modern Architecture	
ARH 468	Race and Representation	
ARH 471	Topics in Asian Cinema	
ARH 480	Art Criticism and Theory	
ARH 485	Special Topics: Museum Studies	
ARH 487	Special Topics: Field Study	
Art History Elective [2]		
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 Renasissance 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	
ARH 491	Independent Study	
ARH 492	Museum/ Gallery Internship	
Art History/Art Studio Elective		
Select one course from Art History (ARH) or Art Studio (ARS):		3
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 Renasissance 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
ARH 491	Independent Study
ARH 492	Museum/ Gallery Internship
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
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 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 351	Technical Processes for Graphic Design
ARS 350	Intermediate 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
B.A. Capstone (taken at senior level)	
ARH 489	Capstone: Contemporary Art Practices 3
Foreign Language Requirement [3]	4
Select one of the following:	
CHI 102	Introductory Chinese II
FR 102	Introductory French II
GN 102	Introductory German II
JPA 102	Introductory Japanese II
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

Requirements		Hours
Freshman Year Experience [1]		
College of Arts and Sciences Freshman Year Experience		1
Required Art Studio		
ARS 100	Introduction to Drawing	3
ARS 101	Two-Dimensional Design	3
ARS 102	Three-Dimensional Design	3
ARS 103	Digital Imaging & Design	3
ARS 105	Introduction to Drawing II	3
Art History Survey		
Select one of the following:		3
ARH 203	Ancient and Medieval Art [2]	
ARH 204	Renaissance through Modern Art	
ARH 206	Survey of Asian Art	
200 Level Art Studio		
Select three of the following:		9
ARS 200	Beginning Drawing	
ARS 201	Sketchbook & Idea Development	
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	
300 Level Art Studio [3]		
Select two of the following from two different fields of study:		6
Drawing		
ARS 300	Intermediate Drawing	
ARS 302	Figure Drawing	
Painting		
ARS 310	Intermediate Painting	
Sculpture		
ARS 320	Intermediate Sculpture	
Ceramics		
ARS 330	Intermediate Ceramic Sculpture	
ARS 335	Intermediate Wheel-Thrown Ceramics	
Printmaking		
ARS 340	Intermediate Printmaking	
ARS 341	Intermediate Lithography	
ARS 342	Experimental Printmaking	
Graphic Design		
ARS 350	Intermediate Graphic Design	
ARS 351	Technical Processes for Graphic Design	
ARS 352	Typography	
ARS 355	Interactive Design	
Time Based Media		
ARS 360	Intermediate Time Based Media	
ARS 361	3D Computer Modeling	
ARS 362	Creative Strategy for Advertising Design	
ARS 365	Illustration	
Photography		
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	
400 Level Art Studio		
Select one of the following:		3
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	

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 465	Aspects of Contemporary Art	
ARH 467	Modern Architecture	
ARH 468	Race and Representation	
ARH 471	Topics in Asian Cinema	
ARH 480	Art Criticism and Theory	
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 (with approval)	
Art History Elective		
Select one of the following:		3
ARH 101	The Art Experience	
ARH 203	Ancient and Medieval Art	
ARH 204	Renaissance through Modern Art	
ARH 205	African/Native American/Oceanic Art	
ARH 206	Survey of Asian Art	
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 421	Italian Renaissance Art	
ARH 419	Arts of Death in the Middle Ages	
ARH 422	The Birth of Painting: Portable Pictures Across Renaissance Europe	
ARH 423	Study Abroad: European Art	
ARH 424	Northern Renasissance 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 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	
B.A. Capstone		
ARH 489	Capstone: Contemporary Art Practices (taken at senior level)	3
Total Hours		46

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.

Requirements		Hours
Freshman Year Experience [1]		
College of Arts and Sciences Freshman Year Experience		1
Required Art Studio Courses		
ARS 100	Introduction to Drawing	3
ARS 101	Two-Dimensional Design	3
ARS 102	Three-Dimensional Design	3
ARS 103	Digital Imaging & Design	3
ARS 105	Introduction to Drawing II	3
200-level Art Studio Courses [2]		
Select four of the following:		12
ARS 200	Beginning Drawing	
ARS 201	Sketchbook & Idea Development	
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	
300-level Advanced Studio Courses [3]		
Select six of the following from three different fields of study:		18
ARS 387	Field Study in Art Studio	
ARS 395	Special Topics in Studio Art: Intermediate	
Drawing		
ARS 300	Intermediate Drawing	
ARS 302	Figure Drawing	
Painting		
ARS 310	Intermediate Painting	
Sculpture		
ARS 320	Intermediate Sculpture	
Ceramics		
ARS 330	Intermediate Ceramic Sculpture	
ARS 335	Intermediate Wheel-Thrown Ceramics	
Printmaking		
ARS 340	Intermediate Printmaking	
ARS 341	Intermediate Lithography	
ARS 342	Experimental Printmaking	
Graphic Design		
ARS 350	Intermediate Graphic Design	
ARS 351	Technical Processes for Graphic Design	
ARS 352	Typography	
ARS 355	Interactive Design	
Time Based Media		
ARS 360	Intermediate Time Based Media	
ARS 361	3D Computer Modeling	
ARS 362	Creative Strategy for Advertising Design	
ARS 365	Illustration	
Photography		
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	
Special Topics, Independent Study or Internships (Topics Vary)		
400-level Advanced Studio Courses [4]		
Select four of the following:		12
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	
General Art Studio Electives		
Select three of the following:		9
ARS 200	Beginning Drawing	
ARS 201	Sketchbook & Idea Development	

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 [4]		
Select two of the following:		6
ARH 203	Ancient and Medieval Art	
ARH 204	Renaissance through Modern Art	
ARH 206	Survey of Asian Art	
Western or Non-Western (antiquity - 18th century)		
Select two of the following:		6
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 Renasissance 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 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	
Contemporary Art History		
Select one of the following:		3
ARH 464	Art Since 1945	
ARH 465	Aspects of Contemporary Art	
ARH 480	Art Criticism and Theory	
19th and 20th Century Art History		
Select one of the following:		3
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 467	Modern Architecture
ARH 468	Race and Representation
ARH 471	Topics in Asian Cinema
ARH 483	Special Topics: Gender and the Visual Arts
ARH 485	Special Topics: Museum Studies
Total Hours	91

1 Freshmen must take either University 101 or another College of Arts and Sciences Freshman Year Experience Course.

2 Students must complete the required 100-level ARS courses before enrolling in ARS courses at the 200-level.

3 Students must complete six hours of 300-level Art Studio (ARS) courses in one area before enrolling in these courses.

4 Note: ARH 203 will also satisfy Core Curriculum Area II: Fine Arts.

Proposed Program of Study for a Major in Art with a Concentration in Art History

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 101	3
ARH 203	3 ARH 204	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 206	3 ARH 470	3
ARH 421	3 FR 102	4
	6	**7**
Junior		
First Term	**Hours Second Term**	**Hours**
ARH 440	3 ARH 441	3
ARH 460	3 ARH 464	3
	6	**6**
Senior		
First Term	**Hours Second Term**	**Hours**
ARH 478	3 ARH 480	3
	ARH 489	3
	3	**6**

Total credit hours: 47

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Ceramic Sculpture)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 210	3
ARS 220	3 ARS 230	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 320	3 ARS 330	3
ARS 330	3 ARS 335	3
	6	**6**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 430	3 ARH 489	3
ARH 460	3 ARH 464	3
	6	**6**

Total credit hours: 49

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Drawing)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 210	3
ARS 200	3 ARS 220	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 300	3 ARS 310	3
ARS 302	3	
	6	**3**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 400	3 ARH 489	3
ARH 460	3 ARH 464	3
	6	**6**

Total credit hours: 46

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Graphic Design)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 103	3
Freshman Year Experience	1	
	7	**6**

Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 240	3
ARS 220	3 ARS 250	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 350	3 ARS 352	3
ARS 351	3 ARS 340	3
	6	**6**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 450	3 ARH 489	3
ARH 461	3 ARH 464	3
	6	**6**

Total credit hours: 49

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Painting)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 210	3
ARS 220	3 ARS 240	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 310	3 ARS 310	3
ARS 340	3	
	6	**3**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 410	3 ARH 489	3
ARS 460	3 ARH 464	3
	6	**6**

Total credit hours: 46

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Photography)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 240	3
ARS 220	3 ARS 270	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 340	3 ARS 375	3
ARS 370	3	
	6	**3**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 475	3 ARH 489	3
ARH 460	3 ARH 464	3
	6	**6**

Total credit hours: 46

Proposed Program of Study for a Major in Art with a Concentration in Art Studio (Printmaking)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 240	3
ARS 220	3 ARS 241	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 310	3 ARS 342	3
ARS 340	3	
	6	**3**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 440	3 ARH 489	3
ARH 460	3 ARH 464	3
	6	**6**

Total credit hours: 46

Proposed Program of Study for a Major in Art with a Concentration in 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	
	7	**6**

Sophomore		
First Term	**Hours Second Term**	**Hours**
ARH 204	3 ARS 210	3
ARS 220	3 ARS 230	3
	6	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 320	3 ARS 335	3
ARS 330	3	
	6	**3**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 420	3 ARH 489	3
ARH 460	3 ARH 464	3
	6	**6**

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	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARS 220	3 ARS 102	3
ARS 250	3 ARS 105	3
ARH 205	3	
	9	**6**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 300	3 ARS 302	3
ARS 320	3 ARS 330	3
ARS 330	3 ARS 335	3
ARH 470	3 ARH 478	3
	12	**12**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 420	3 ARS 430	3
ARS 400	3 ARS 491	3
ARS 489	3 ARH 464	3
ARH 460	3	
	12	**9**

Total credit hours: 73

Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio (Drawing)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARS 200	3 ARS 210	3
ARS 220	3 ARS 240	3
ARH 203	3 ARH 204	3
	9	**9**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 300	3 ARS 302	3
ARS 310	3 ARS 310	3
ARS 340	3 ARS 341	3
ARH 421	3 ARH 422	3
	12	**12**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 400	3 ARS 440	3
ARS 410	3 ARS 441	3
ARS 489	3 ARS 491	3
ARH 460	3 ARH 464	3
	12	**12**

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	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 103	3
Freshman Year Experience	1 ARS 105	3
	7	**9**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARS 220	3 ARS 252	3
ARS 250	3 ARS 270	3
ARH 203	3 ARH 204	3
	9	**9**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 350	3 ARS 370	3
ARS 351	3 ARS 352	3
ARS 372	3 ARS 355	3

ARH 421	3 ARH 422	3
	12	**12**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 450	3 ARS 451	3
ARS 455	3 ARS 459	3
ARS 459	3 ARS 491	3
ARH 461	3 ARH 464	3
	12	**12**

Total credit hours: 82

Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio

(Painting)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARS 210	3 ARS 250	3
ARS 220	3 ARS 240	3
ARH 203	3 ARH 204	3
	9	**9**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 300	3 ARS 302	3
ARS 310	3 ARS 310	3
ARS 340	3 ARS 341	3
ARH 421	3 ARH 422	3
	12	**12**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 400	3 ARS 440	3
ARS 410	3 ARS 441	3
ARS 489	3 ARS 491	3
ARH 460	3 ARH 464	3
	12	**12**

Total credit hours: 79

Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio

(Photography)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 103	3
Freshman Year Experience	1 ARS 105	3
	7	**9**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARS 240	3 ARS 220	3
ARS 270	3 ARS 250	3
ARH 204	3 ARH 206	3
	9	**9**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 300	3 ARS 372	3
ARS 340	3 ARS 374	3
ARS 370	3 ARS 375	3
ARH 470	3 ARH 478	3
	12	**12**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 475	3 ARS 473	3
ARS 476	3 ARS 479	3
ARS 489	3 ARS 491	3
ARH 460	3 ARH 464	3
	12	**12**

Total credit hours: 82

Proposed Program of Study for a Bachelor of Fine Arts with a Concentration of Art Studio

(Printmaking)

Freshman		
First Term	**Hours Second Term**	**Hours**
ARS 100	3 ARS 102	3
ARS 101	3 ARS 105	3
Freshman Year Experience	1	
	7	**6**
Sophomore		
First Term	**Hours Second Term**	**Hours**
ARS 220	3 ARS 210	3
ARS 240	3 ARS 241	3
ARH 203	3 ARH 204	3
	9	**9**
Junior		
First Term	**Hours Second Term**	**Hours**
ARS 300	3 ARS 302	3
ARS 310	3 ARS 341	3
ARS 340	3 ARS 342	3
ARH 421	3 ARH 422	3
	12	**12**
Senior		
First Term	**Hours Second Term**	**Hours**
ARS 400	3 ARS 440	3
ARS 442	3 ARS 441	3
ARS 489	3 ARS 491	3
ARH 460	3 ARH 464	3
	12	**12**

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		
	7		**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
	9		**9**
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
	12		**12**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
ARS 400	3	ARS 420	3
ARS 430	3	ARS 491	3
ARS 489	3	ARH 464	3
ARH 460	3		
	12		**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 Renasissance 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	

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 352	Typography	
ARS 355	Interactive Design	
ARS 360	Intermediate Time Based Media	
ARS 361	3D Computer Modeling	
ARS 370	Intermed Photography Level I	
ARS 395	Special Topics in Studio Art: Intermediate	
Art History Survey		3
ARH 204	Renaissance through Modern Art	
Total Hours		24

Honors in Art History

Purpose

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 499 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)
  - 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:

1. Major in Biology – General Track
2. Major in Biology with a Marine Science Concentration
3. Major in Biology with a Molecular Biology Concentration

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

Requirements		Hours
Mathematics		
MA 125	Calculus I [1]	4
Chemistry		
CH 115	General Chemistry I	3
CH 116	General Chemistry I Laboratory	1
or CH 114	General Chemistry I Laboratory (Honors)	
CH 117	General Chemistry II	3
CH 118	General Chemistry II Laboratory	1
or CH 119	General Chemistry II Laboratory (Honors)	
CH 235	Organic Chemistry I	3
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)	
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	
Biology Requirement		
Biology Majors must complete 40 hours of Biology courses approved for the major. [2]		
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:		3-4
BY 429	Evolution	
BY 435	Natural History of Vertebrates	
BY 467	Population Ecology	
BY 470	Ecology	
BY 474	Chemical Ecology	
Organismal		
Select one of the following:		4
BY 255	Invertebrate Zoology	
BY 256	Vertebrate Zoology	
BY 271	Biology of Microorganisms	
BY 442	Experimental Phycology	
Physiology and Development		
Select one of the following:		3-4
BY 314	Embryology	
BY 409	Principles of Human Physiology	
BY 410	Comparative Animal Physiology	
BY 420	General Endocrinology	
BY 440	Immunology	
BY 451	Plant Biology	
BY 475	Comparative Developmental Biology	
Cellular/Molecular		
Select one of the following:		3
BY 311	Molecular Genetics	
BY 330	Cell Biology	
BY 434	Functional Genomics and Systems Biology	
BY 437	Epigenetics	
BY 469	Molecular Ecology and Phylogenetics	
Capstone Experience		
Select one of the following (only one can count towards major):		4
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		
Select Biology (BY) courses to total the 40 hour Biology Requirement		
Total Hours		56-58

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

Requirements		Hours
Mathematics		
MA 125	Calculus I [1]	4
Chemistry		
CH 115	General Chemistry I	3
CH 116	General Chemistry I Laboratory	1
or CH 114	General Chemistry I Laboratory (Honors)	
CH 117	General Chemistry II	3
CH 118	General Chemistry II Laboratory	1
or CH 119	General Chemistry II Laboratory (Honors)	
CH 235	Organic Chemistry I	3
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)	
CH 460	Fundamentals of Biochemistry	3
or CH 461	Advanced Biochemistry I	
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	
Marine Science Electives		15
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. [2]		
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:		3-4
BY 470	Ecology	
BY 429	Evolution	
BY 474	Chemical Ecology	
BY 435	Natural History of Vertebrates	
BY 467	Population Ecology	
MESC 411	Costal Wetlands Ecology	
MESC 412	Marine Ecology	
Organismal		
Select one of the following:		4
BY 255	Invertebrate Zoology	
BY 256	Vertebrate Zoology	
BY 271	Biology of Microorganisms	
BY 442	Experimental Phycology	
MESC 402	Marine Vertebrate Zoology	
MESC 407	Marine Botany	
MESC 413	Marine Invertebrate Zoology	
Physiology and Development		
Select one of the following:		3-4
BY 314	Embryology	
BY 409	Principles of Human Physiology	
BY 410	Comparative Animal Physiology	
BY 420	General Endocrinology	
BY 440	Immunology	
BY 451	Plant Biology	
BY 475	Comparative Developmental Biology	
Cellular/Molecular		
Select one of the following:		3
BY 311	Molecular Genetics	

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):		4
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, andBY 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

Requirements		Hours
Mathematics		
MA 125	Calculus I [1]	4
Chemistry		
CH 115	General Chemistry I	3
CH 116	General Chemistry I Laboratory	1
or CH 114	General Chemistry I Laboratory (Honors)	
CH 117	General Chemistry II	3
CH 118	General Chemistry II Laboratory	1
or CH 119	General Chemistry II Laboratory (Honors)	
CH 235	Organic Chemistry I	3
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)	
CH 460	Fundamentals of Biochemistry	3
or CH 461	Advanced Biochemistry I	
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	
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:		9
BY 416	Cellular Physiology	
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 major):		4
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.

[2] 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

Freshman

First Term	Hours	Second Term	Hours
MA 106	3	MA 125	4
CH 115 & 115R	3	EH 102	3
CH 116	1	BY 123 & 123L	4
EH 101	3	CH 117 & 117R	3
CAS Freshman Year Experience	1	CH 118	1
Core Curriculum Area II or Area IV	3		
	14		**15**

Sophomore

First Term	Hours	Second Term	Hours
CH 235 & 235R	3	CH 237 & 237R	3
CH 236	1	CH 238	1
BY 124 & 124L	4	BY 210	3
PHL 115 or 116	3	Core Curriculum Area II or Area IV	3
Elective	3	Elective	3
	14		**13**

Junior

First Term	Hours	Second Term	Hours
Cellular or Molecular Biology	3	Organismal Biology	4
PH 201 & 201R & 201L	4	PH 202 & 202R & 202L	4
Core Curriculum Area II or Area IV	6	Core Curriculum Area II or IV	6
Biology Elective	3	Elective	3
	16		**17**

Senior

First Term	Hours	Second Term	Hours
Physiology/Development	4	Biology Elective	4
Ecology/Evolution	4	Biology Electives	6
Biology Elective	3	Electives	6
Core Curriculum Area II or IV	3		
Elective	3		
	17		**16**

Total credit hours: 122

[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

Freshman

First Term	Hours	Second Term	Hours
MA 106	3	MA 125	4
CH 115 & 115R	3	EH 102	3
CH 116	1	BY 123 & 123L	4
EH 101	3	CH 117 & 117R	3
CAS Freshman Year Experience	1	CH 118	1
Core Curriculum Area II or Area IV	3		
	14		**15**

Sophomore

First Term	Hours	Second Term	Hours	Summer Term	Hours
CH 235 & 235R	3	CH 237 & 237R	3	Dauphin Island Sea Lab (MESC credit)	6-12
CH 236	1	CH 238	1		
BY 124 & 124L	4	BY 210	3		
PHL 115 or 116	3	Core Curriculum Area II or Area IV	6		

Elective	3				
	14		**13**		**6-12**
Junior					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
BY 330	3	Organismal Biology (if not previously covered)	4	Dauphin Island Sea Lab (MESC credit)	6-12
PH 201 & 201R & 201L	4	PH 202 & 202R & 202L	4		
Biology Elective	3	Core Curriculum Area II or Area IV	6		
Core Curriculum Area II or Area IV	6				
	16		**14**		**6-12**
Senior					
First Term	**Hours**				
Physiology	3-4				
Biology Elective	3				
Ecology (if not covered with MESC)	3				
Core Curriculum Area II or Area IV	3				
Elective	3				
	15-16				

Total credit hours: 113-126

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.

Proposed Program of Study for a Major in Biology with a Concentration in Molecular Biology

Freshman					
First Term	**Hours**	**Second Term**	**Hours**		
MA 106	3	MA 125	4		
CH 115 & 115R	3	EH 102	3		
CH 116	1	BY 123 & 123L	4		
EH 101	3	CH 117 & 117R	3		
CAS Freshman Year Experience	1	CH 118	1		
Core Curriculum Area II or Area IV	3				
	14		**15**		
Sophomore					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
CH 235 & 235R	3	CH 237 & 237R	3	CH 460 (or fall senior year CH 461)	3
CH 236	1	CH 238	1		
BY 124 & 124L	4	BY 210	3		
PHL 115 or 116	3	BY 330	3		
Elective	3	Core Curriculum Area II or IV	3		
	14		**13**		**3**
Junior					
First Term	**Hours**	**Second Term**	**Hours**		
BY 311	3	BY 271 & 271L	4		
PH 201 & 201R & 201L	4	PH 202 & 202R & 202L	4		
Core Curriculum Area II or Area IV	6	Core Curriculum Area II or Area IV (or BY 245 see note below)	3		
Elective	3	Core Curriculum Area II or Area IV	3		
		Elective	3		
		undefined			
	16		**17**		
Senior					
First Term	**Hours**	**Second Term**	**Hours**		
BY 433 or 416	3	BY 431	3		
BY 440	3	BY 245	3		
CH 460 or 461	3	Biology Elective (see note below)	3-4		
Biology Elective (see note below)	3-4	Electives	6		
Elective	3				
	15-16		**15-16**		

Total credit hours: 122-124

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.

Minor Requirements for Biology

Requirements		**Hours**
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

BY 210	Genetics	3
Biology Electives [2]		
Select 6 hours from 200-level or higher Biology (BY) courses.		6
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.

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 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.

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:

Requirements		Hours
CH 115	General Chemistry I	3
CH 117	General Chemistry II	3
CH 235	Organic Chemistry I	3
CH 237	Organic Chemistry II	3
CH 325	Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics	4
CH 326	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy	3
CH 345	Inorganic Chemistry: Principles and Applications of Chemical Periodicty	4
CH 355	Quantitative Analysis	4
CH 440	Transition Metal Chemistry	3
CH 450	Instrumental Analysis	4
CH 480	Polymer Chemistry I	4
CH 481	Polymer Chemistry II	4

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

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
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 / 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:		4
CH 326 & CH 427	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory	
CH 440 & CH 427	Transition Metal Chemistry and Molecular Structure and Spectroscopy Laboratory	
CH 450 & 450L	Instrumental Analysis and Instrumental Analysis Laboratory	
Biochemistry		
CH 460	Fundamentals of Biochemistry	3
Chemistry Electives		
Select one of the following:		3-6
CH 326	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy	
CH 440	Transition Metal Chemistry	
CH 450	Instrumental Analysis	
CH 451	Chemometrics [2]	
CH 461	Advanced Biochemistry I [2]	

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 & CH 497	Ethics in Chemical Research 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 297Undergraduate 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	
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
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 / 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:		4
CH 326 & CH 427	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory	
CH 440 & CH 427	Transition Metal Chemistry and Molecular Structure and Spectroscopy Laboratory	
CH 450 & 450L	Instrumental Analysis 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 & CH 497	Ethics in Chemical Research and Undergraduate Research	
Total Hours		59-61

1 The calculus based PH 221 & PH 222 is strongly recommended.

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 chemistry with Biochemistry 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 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.	15-19
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 FYC/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

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 & 325L	Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics and Physical Chemistry I Laboratory: Thermodynamics and Chemical Kinetics	
CH 326 & CH 427	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and 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 & CH 497	Ethics in Chemical Research and Undergraduate Research	
Total Hours		44-48

1 The calculus based PH 221-PH 222sequence 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 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

Requirements	Hours
General Electives	
Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.	31-34
Total Hours	31-34

Major Requirements for Chemistry with Polymer Chemistry 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
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/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:		5
CH 326 & CH 427	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory	
CH 440 & CH 427	Transition Metal Chemistry and Molecular Structure and Spectroscopy Laboratory	
CH 450 & 450L	Instrumental Analysis and Instrumental Analysis Laboratory	
Biochemistry		
CH 460	Fundamentals of Biochemistry	3
Polymer		
CH 480	Polymer Chemistry I	4

CH 481	Polymer Chemistry II	4
Materials Science and Engineering		
MSE 280	Engineering Materials	3
MSE 413	Composite Materials [2]	3
MSE 430	Polymeric Materials [2]	3
Capstone Requirement		
Select one of the following:		3-4
CH 493	Chemistry in Culture & Ethics	
or CH 495 & CH 497	Ethics in Chemical Research 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

First Term	Hours	Second Term	Hours
CH 115 & 115R	3	EH 102	3
CH 116	1	CH 117 & 117R	3
Core Curriculum (e.g. HY 101)[1]	3	Core Curriculum (e.g. PH 116)[1]	3
FYE/FLC Course (credit hours may vary)	2	CH 118	1
EH 101	3	MA 126	4
MA 125	4		
	16		**14**

Sophomore

First Term	Hours	Second Term	Hours
CH 235 & 235R	3	CH 237 & 237R	3
Core Curriculum (e.g. SOC 100)[1]	3	CH 238	1
Electives	2-3	Core Curriculum (e.g. PY 101)[1]	3
Core Curriculum (e.g. EH 216)[1]	3	Core Curriculum (e.g. HY 102)[1]	3
Core Curriculum (e.g. THR 100)[1]	3	Core Curriculum (e.g. CMST 101)[1]	3
CH 236	1	Electives	2
	15-16		**15**

Junior

First Term	Hours	Second Term	Hours
CH 345 & 345L	4	CH 355 & 355L	4
PH 221 & 221R & 221L[2]	4	PH 222 & 222R & 222L[2]	4
Electives	7	Electives	7
	15		**15**

Senior

First Term	Hours	Second Term	Hours
CH 325 & 325L	4	CH 326 or 440[3]	3
CH 460	3	CH 427[3]	1
Electives	8	CH 493	3
		Chemistry Elective (400 level)[1]	3
		Electives	5
	15		**15**

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

First Term	Hours	Second Term	Hours
CH 115 & 115R	3	BY 124 & 124L	4
CH 116	1	EH 102	3
FYE/FLC Course (hours may vary)	2	MA 126	4
EH 101	3	CH 117 & 117R	3
MA 125	4	CH 118	1
BY 123 & 123L	4		
	17		**15**

Sophomore

First Term	Hours	Second Term	Hours
CH 235 & 235R	3	CH 237 & 237R	3

Core Curriculum (e.g. THR 100)[1]	3	CH 238	1
Elective	1	PH 222 & 222R & 222L[2]	4
CH 236	1	Core Curriculum (e.g. HY 101)[1]	3
PH 221 & 221R & 221L[2]	4	Core Curriculum (e.g. PHL 116)[1]	3
Core Curriculum (e.g. EH 216)[1]	3	Elective	1
	15		**15**

Junior

First Term	**Hours**	**Second Term**	**Hours**
CH 345 & 345L	4	CH 461	3
Electives	2	CH 355 & 355L	4
CH 460	3	BY 210[3]	3
Core Curriculum (e.g. HY 102)[1]	3	Core Curriculum (e.g. SOC 100)[1]	3
Core Curriculum (e.g. PY 101)[1]	3	Electives	2
	15		**15**

Senior

First Term	**Hours**	**Second Term**	**Hours**
CH 325	4	CH 326 or 440[4]	3
CH 325L	0	CH 427[4]	1
Core Curriculum (e.g. CMST 101)[1]	3	CH 464	3
Electives	8	CH 493	3
		Electives	3
	15		**13**

Total credit hours: 120

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 326/427 or CH 440/427

Proposed Program of Study for a Major in Chemistry with a Chemical Education Track

ACS Approved (2014/2015)

Freshman

First Term	**Hours**	**Second Term**	**Hours**
CH 115 & 115R	3	CH 118	1
CH 116	1	CH 117 & 117R	3
FYE/FLC (Credit hours may vary)	2	Core Curriculum (e.g. PHL 115)[1]	3
EH 101	3	EH 102	3
MA 125	4	MA 126	4
Core Curriculum (e.g. HY 101)[1]	3		
	16		**14**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**
CH 235 & 235R	3	CH 237 & 237R	3
Core Curriculum (e.g. EH 216)[1]	3	CH 238	1
Elective	3	PH 222 & 222R & 222L[2]	4
CH 236	1	Core Curriculum (e.g. CMST 101)[1]	3
PH 221 & 221L & 221R[2]	4	Elective	4
Core Curriculum (e.g. THR 100)[1]	3		
	17		**15**

Junior

First Term	**Hours**	**Second Term**	**Hours**
CH 345 & 345L	4	CH 355 & 355L	4
CH 460	3	Core Curriculum (e.g. PY 101)	
Elective	2	Chemistry Elective (400 level)[3]	3
Core Curriculum (e.g. HY 102)[1]	3	Electives	6
Core Curriculum (e.g. ANTH 101)[1]	3		
	15		**13**

Senior

First Term	**Hours**	**Second Term**	**Hours**
CH 325[3]	4	CH 498	3
CH 325L[3]	0	CH 493	3
Electives	11	Electives	9
	15		**15**

Total credit hours: 120

This program alone <u>DOES NOT</u> 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)

Freshman

First Term	Hours	Second Term	Hours
CH 115 & 115R	3	EH 102	3
CH 116	1	MA 126	4
EH 101	3	CH 118	1
MA 125	4	BY 124 & 124L	4
BY 123 & 123L	4	CH 117 & 117R	3
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours	Summer Term	Hours
CH 235 & 235R	3	CH 237 & 237R	3	CH 460	3
Core curriculum (e.g. THR 100)[1]	3	CH 238	1		
Core Curriculum (e.g. EH 216)[1]	3	JS 352	3		
CH 236	1	BY 210	3		
JS 110	3	Core Curriculum (e.g. HY 101)[1]	3		
JS 120	3	Core Curriculum (e.g. PHL 116)[1]	3		
	16		**16**		**3**

Junior

First Term	Hours	Second Term	Hours	Summer Term	Hours
JS 250 or 350	3	CH 355 & 355L	4	CH 463	3
Core Curriculum (e.g. HY 102)		BY 429	3		
CH 345 & 345L	4	PH 222 & 222R & 222L[2]	4		
BY 311	3	Core Curriculum (e.g. SOC 100)[1]	3		
PH 221 & 221R & 221L[2]	4				
	14		**14**		**3**

Senior

First Term	Hours	Second Term	Hours	Summer Term	Hours
CH 325 & 325L	4	CH 326	3	CH 297	1
CH 450 & 450L	4	CH 427	1		
CH 497	3	CH 495	1		
JS 567 or 677	3	Core Curriculum (e.g. PY 101)[1]	3		
		Core Curriculum (e.g. CMST 101)[1]	3		
	14		**11**		**1**

Total credit hours: 122

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)

Freshman

First Term	Hours	Second Term	Hours
CH 115 & 115R	3	Elective	1
CH 116	1	EH 102	3
Elective	2	CH 118	1
EH 101	3	Core Curriculum (e.g. HY 101)[1]	3
MA 125	4	MA 126	4
FYE/FLC (Credit hours vary.)	2	CH 117 & 117R	3
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours
CH 235 & 235R	3	CH 237 & 237R	3
Core Curriculum (e.g. PHL 115)[1]	3	CH 238	1
MSE 280	3	Core Curriculum (e.g. CMST 101)[1]	3
CH 236	1	Core Curriculum (e.g. ANTH 101)[1]	3
Core Curriculum (e.g. EH 216)[1]	3	Core Curriculum (e.g. HY 102)[1]	3
Core Curriculum (e.g. THR 100)[1]	3	Elective (MSE 281)	3
	16		**16**

Junior

First Term	Hours	Second Term	Hours
CH 345 & 345L	4	PH 222 & 222R & 222L[2]	4
Elective	1	CH 355 & 355L	4
MSE 413	3	Electives	7
PH 221 & 221R & 221L[2]	4		
Core Curriculum (e.g. PY 101)[1]	3		
	15		**15**

Senior

First Term	Hours	Second Term	Hours
CH 325 & 325L	4	CH 326 or 440[3]	3
CH 460	3	CH 427[3]	1
CH 481 & 481L	4	CH 480 & 480L	4

MSE 430	3 CH 493	3
	Elective	3
	14	**14**

Total credit hours: 120

[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 440/427

Minor Requirements for Chemistry

Requirements		**Hours**
Required Chemistry Courses		
CH 115	General Chemistry I [1]	3
CH 114	General Chemistry I Laboratory (Honors) [1]	1
or CH 116	General Chemistry I Laboratory	
CH 117	General Chemistry II [1]	3
CH 118	General Chemistry II Laboratory [1]	1
or CH 119	General Chemistry II Laboratory (Honors)	
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)	
Chemistry Elective		
Select one of the following:		3-4
CH 325	Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics	
CH 326	Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy	
CH 345	Inorganic Chemistry: Principles and Applications of Chemical Periodicity	
CH 355	Quantitative Analysis	
CH 440	Transition Metal Chemistry	
CH 450	Instrumental Analysis	
CH 451	Chemometrics	
CH 459	Spec Topics in Analytical Chem	
CH 460	Fundamentals of Biochemistry	
CH 461	Advanced Biochemistry I	
CH 462	Advanced Biochemistry II	
CH 463	Biochemistry Laboratory	
CH 464	Physical Biochemistry Laboratory	
CH 471	Medicinal Chemistry and Drug Discovery	
CH 472	Chemistry of Natural Products	
CH 480	Polymer Chemistry I	
CH 481	Polymer Chemistry II	
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:

Requirements		**Hours**
CH 115	General Chemistry I	3
CH 116	General Chemistry I Laboratory	1
or CH 114	General Chemistry I Laboratory (Honors)	
CH 117	General Chemistry II	3
CH 118	General Chemistry II Laboratory	1
or CH 119	General Chemistry II Laboratory (Honors)	
CH 235	Organic Chemistry I	3
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)	

- 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

Requirements		Hours
Required Courses [1]		
CMST 105	Introduction to Human Communication	3
CMST 494	Communication Research Methods	3
CMST 103	History of Mass Media (Required Courses) [1]	3
Communication Management Electives		30
Select 30 credit hours from the following courses. At least 6 hours must be taken at the 400 level.:		
CMST 300	Human Communication in Everyday Life	
CMST 305	Applied Communication Theory	
CMST 309	Interviewing	
CMST 310	Communication and Teamwork	
CMST 311	Organizational Communication	
CMST 315	Communication Leadership and Management	
CMST 322	Argumentation Theory	
CMST 339	Introduction to Public Relations	
CMST 356	Propaganda and Public Persuasion	
CMST 380	Health Communication	
CMST 400	Professional Presentations	
CMST 401	Instructional Communication	
CMST 411	Organizational Communication Project	
CMST 414	Language & Thought	
CMST 415	Intercultural & International Communication	
CMST 455	Seminar in Political Communication	
CMST 458	Media Criticism	
CMST 460	Communication and Social Movements in America	
CMST 481	Communication and Aging	
CMST 492	Independent Study	
CMST 493	Special Topics in Communication Studies	
CMST 494	Communication Research Methods	
Total Hours		39

Major Requirements for Communication Studies with Mass Communication - Broadcasting Concentration

Requirements		Hours
Required Courses [1]		
CMST 103	History of Mass Media	3
CMST 105	Introduction to Human Communication	3
CMST 210	Newswriting and Reporting I	3
CMST 283	Visual Media Production I	3
CMST 370	Fundamentals of Broadcast Journalism	3
CMST 371	Copywriting for Broadcast Media	3
CMST 383	Visual Media Production II	3
CMST 402	Mass Communication Law	3
CMST 494	Communication Research Methods	3
CMST 495	Mass Media and Society	3
Mass Media Internship		
Select two internship hours:		2
CMST 491	Internship	
Major Electives		
Select six hours from 300-level or 400-level Communication Studies Classes. At least one elective must be at the 400 level.		6
CMST 301	Classical Theories of Social Influence	
CMST 305	Applied Communication Theory	
CMST 306	Investigative Reporting	
CMST 309	Interviewing	
CMST 315	Communication Leadership and Management	
CMST 308	Newswriting and Reporting II	
CMST 322	Argumentation Theory	
CMST 339	Introduction to Public Relations	
CMST 343	Public Relations Methods II	
CMST 356	Propaganda and Public Persuasion	
CMST 380	Health Communication	
CMST 401	Instructional Communication	
CMST 411	Organizational Communication Project	
CMST 413	Nonverbal Communication	
CMST 414	Language & Thought	
CMST 440	Public Relations Methods I	
CMST 442	Conducting Public Relations Campaigns	
CMST 455	Seminar in Political Communication	
CMST 481	Communication and Aging	
CMST 490	Media Citizenship	
CMST 491	Internship	
CMST 492	Independent Study	
CMST 493	Special Topics in Communication Studies	
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

Requirements		Hours
Required Courses [1]		
CMST 103	History of Mass Media	3
CMST 105	Introduction to Human Communication	3
CMST 210	Newswriting and Reporting I	3
CMST 306	Investigative Reporting	3
CMST 308	Newswriting and Reporting II	3
CMST 350	Publication Editing and Design	3
CMST 360	Feature Writing	3
CMST 402	Mass Communication Law	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:		2
CMST 491	Internship	
Major Electives		
Select nine credit hours from 300-level or 400-level Courses (that are not required):		9
CMST 301	Classical Theories of Social Influence	
CMST 305	Applied Communication Theory	
CMST 309	Interviewing	
CMST 315	Communication Leadership and Management	
CMST 322	Argumentation Theory	
CMST 339	Introduction to Public Relations	
CMST 340	Public Relations Principles	
CMST 343	Public Relations Methods II	
CMST 356	Propaganda and Public Persuasion	
CMST 380	Health Communication	
CMST 401	Instructional Communication	
CMST 411	Organizational Communication Project	
CMST 413	Nonverbal Communication	
CMST 414	Language & Thought	
CMST 415	Intercultural & International Communication	
CMST 440	Public Relations Methods I	
CMST 442	Conducting Public Relations Campaigns	
CMST 455	Seminar in Political Communication	
CMST 480	Seminar in Health and Medical Communication	
CMST 481	Communication and Aging	
CMST 490	Media Citizenship	
CMST 491	Internship	
CMST 492	Independent Study	
CMST 493	Special Topics in Communication Studies	
Total Hours		41

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

Requirements		Hours
Required Courses [1]		
CMST 103	History of Mass Media	3
CMST 105	Introduction to Human Communication	3
CMST 210	Newswriting and Reporting I	3
CMST 339	Introduction to Public Relations	3
CMST 340	Public Relations Principles	3

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:		2
CMST 491	Internship	
Writing		
Select one of the following:		3
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

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
CMST 101	3	CMST 103	3
CMST 105	3		
	6		**3**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
Communication Management Electives I[3]	6	Communication Management Elective II[4]	6
	6		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 494	3	Communication Managment Electives IV[6]	6
Communication Management Electives III[5]	6		
	9		**6**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
Other Communication Management Elective	3	Other Communication Management Elective	3
	3		**3**

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 fromCMST 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**
CMST 101	3	CMST 105	3
CMST 103	3		
	6		**3**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
CMST 210	3	CMST 283	3
CMST 370	3	CMST 371	3
	6		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 383	3	CMST 402	3
CMST 494	3	CMST 495	3
	6		**6**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 491	1-3	CMST 493	3
	1-3		**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**
EH 101[1]	3	EH 102[1]	3
CMST 101	3	CMST 103	3

CMST 105	3		
	9		**6**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
CMST 210	3	CMST 310	3
MC/CM Elective (300 level or above)	3	CMST 402	3
	6		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 306	3	CMST 360	3
CMST 350	3	CMST 495	3
CMST 494	3	MC/CM Elective (300 level or above)	3
	9		**9**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 491	1-3	MC/CM Elective (300 level or above)	3
	1-3		**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.

Proposed Program of Study for a Major in Mass Communication with a Public Relations Specialization

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
EH 101[1]	3	EH 102[*]	3
CMST 101	3	CMST 105	3
CMST 103	3		
	9		**6**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
CMST 210	3	CMST 402	3
CMST 495	3	CMST 494	3
	6		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 339	3	CMST 310	3
CMST 356	3	CMST 340	3
	6		**6**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
CMST 440	3	CMST 442	3
CMST 311	3	CMST 491	1-3
	6		**4-6**

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 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		**Hours**
CMST 105	Introduction to Human Communication	3
CMST 311	Organizational Communication	3
CMST 413	Nonverbal Communication	3
Three additional courses, approved by departmental advisor or chair.		9
Total Hours		18

Minor Requirements for Mass Communication

Requirements		**Hours**
Required Courses		
CMST 103	History of Mass Media	3
CMST 210	Newswriting and Reporting I	3
Communication Studies Electives		
Under advisement, select five 300-level or 400-level Mass Communication courses.		15
Total Hours		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 (http://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)

Requirements		Hours
Mathematics Requirements [1, 2]		
MA 125	Calculus I	4
MA 126	Calculus II	4
Select two of the following:		6-7
MA 227	Calculus III	
MA 252	Introduction to Differential Equations	
MA 260	Introduction to Linear Algebra	
MA 360	Scientific Programming [3]	
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	
Natural Sciences Requirement		
12 semester hours are required in two different laboratory science, including a two course sequence, choose from the following:		12
BY 123 & BY 124	Introductory Biology I and Introductory Biology II	

CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	
PH 221 & PH 222	General Physics I 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):		12
EE 337	Introduction to Microprocessors	
EE 452	VHDL Digital Systems Design	
MA 360	Scientific Programming [3]	
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.

Requirements		Hours
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
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:

Requirements		Hours
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

CH 236	Organic Chemistry I Laboratory	1
CH 237	Organic Chemistry II	3
CH 238	Organic Chemistry II Laboratory	1
Biology		
BY 123 & BY 124	Introductory Biology I and Introductory Biology II	8
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	

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		
First Term	**Hours Second Term**	**Hours**
CAS 112	1 CS 201	4
MA 125	4 MA 126	4
Laboratory Science I	4 Laboratory Science II	4
EH 101	3 EH 102	3
General Elective	3	
	15	**15**
Sophomore		
First Term	**Hours Second Term**	**Hours**
CS 250	3 CS 303	4
CS 302	4 HY 102	3
EH 216	3 Math Elective	3
HY 101	3 Laboratory Science III	4
Math Elective	3	
	16	**14**
Junior		
First Term	**Hours Second Term**	**Hours**
CS 330	3 CS 401	3
CS 350	3 CS 433	3
PHL 115	3 ARH 101	3
SOC 100 or 245	3 CMST 101	3
PSC 101 or 103	3 General Elective	3
	15	**15**
Senior		
First Term	**Hours Second Term**	**Hours**
CS 420	3 CS 499	3
CS 455	3 CS Electives (300-400 level)	6
CS Electives (300-400 level)	6 General Electives	6
General Elective	3	
	15	**15**

Total credit hours: 120

Proposed Program of Study for a Major in Computer and Information Sciences with a Networking Specialization

Freshman		
First Term	**Hours Second Term**	**Hours**
CAS 112	1 CS 201	4
MA 125	4 MA 126	4
EH 101	3 EH 102	3
Laboratory Science I	4 Laboratory Science II	4
General Elective	2	
	14	**15**
Sophomore		
First Term	**Hours Second Term**	**Hours**
CS 250	3 CS 303	4
CS 302	4 HY 102	3
EH 216	3 Math Elective	3
HY 101	3 Laboratory Science III	4
Math Elective	3	
	16	**14**
Junior		
First Term	**Hours Second Term**	**Hours**
CS 330	3 CS 401	3
CS 350	3 CS 433	3
PHL 115	3 ARH 101	3
SOC 100 or 245	3 CMST 101	3
PSC 101 or 103	3 General Elective	3
	15	**15**
Senior		
First Term	**Hours Second Term**	**Hours**
CS 420	3 CS 499	3
CS 455	3 CS 334	3
CS 431	3 CS 336	3
CS 435[1]	3 General Electives	7
General Electives	3	
	15	**16**

Total credit hours: 120

[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

Requirements		**Hours**
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
Select any other CS course at 300 - 400 level:		3
Total Hours		21

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

Requirements		Hours
Required Courses		
EH 301	Reading, Writing, and Research for English Majors	3
World, British & Irish, or American Literature Survey [1]		
Select one of the following two course sequences:		6
EH 217 & EH 218	World Literature I: Before 1660 and World Literature II: 1660-Present	
EH 221 & EH 222	British and Irish Literature I: Before 1800 and British and Irish Literature II: 1800-Present	
EH 223 & EH 224	American Literature I: Before 1865 and 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	
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 [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	

EH/LING 454	The Biology of Language	
EH/LING 453	History of the English Language	
EH/LING 493	Special Topics in Linguistics	
English Electives		
Select four of the following:		12
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 311	English Internship	
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 330	Professial Writing: Special Topics	
EH 332	Public Discourse: Special Topics	
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	
EH 369	The American Dream	
EH 376	Shakespeare	
EH 389	Bible as Literature	
EH 393	Special Topics in Linguistics	
EH 401	Tutoring Writing	
EH 402	Writing in Popular Periodicals	
EH 403	Business Writing	
EH 404	Technical Writing	
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 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 421	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 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	
Capstone [3]		
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 already completed EH 250 and EH 251 under the 2008-2009 Catalog will be credited with having met this requirement
3. 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.

Major Requirements for English with a Concentration in Creative Writing

Requirements		Hours
Required Courses		
EH 301	Reading, Writing, and Research for English Majors	3
World, British, & Irish, or American Literature Survey [1]		
Select one of the following two course sequences:		6
EH 217 & EH 218	World Literature I: Before 1660 and World Literature II: 1660-Present	
EH 221 & EH 222	British and Irish Literature I: Before 1800 and British and Irish Literature II: 1800-Present	
EH 223 & EH 224	American Literature I: Before 1865 and 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 [2]		
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 [3]		

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	
EH/LING 453	History of the English Language	
EH/LING 454	The Biology of Language	
EH/LING 493	Special Topics in Linguistics	
Beginning Creative Writing Genre Workshops [4]		
Select two of the following:		6
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 310	Beginning Fiction Writing Workshop	
Advanced Creative Writing Genre 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 429	Creative Writing: Special Topics	
EH 436	Workshop in Writing for Young People	
EH 437	Workshop in Writing for Young People	
Creative Writing Forms Class		
Select one of the following:		
EH 412	Forms of Poetry	
EH 413	Forms of Creative Nonfiction	
EH 415	Forms of Fiction	
Capstone [5]		
Select one of the following:		3
EH 411	Capstone Internship	
EH 495	Honors Capstone Thesis	
EH 496	Capstone Seminar	
Total Hours		39

1. Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.
2. All Creative Writing students are encouraged to take EH 376, Shakespeare, or EH 476, Shakespeare.
3. Note that students who have completed EH 250 and EH 251 under the 2008-2009 catalog will be credited with having met this requirement.
4. Students may petition the Director of Creative Writing to allow one relevant course in English or a related discipline to count toward this requirement. Examples include, but are not limited to, EH 311, English Internship; THR 215, Playwriting I; and THR 216, Screenwriting I.
5. Both EH 411, Capstone Internship, and EH 495, Honors Capstone Thesis, must be approved. Students should complete this requirement in their 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 Linguistics

Requirements		Hours
Required Courses		
EH 301	Reading, Writing, and Research for English Majors	3
EH/LING 350	Introduction to Linguistics [1]	3
World, British, & Irish or American Literature Survey [2]		
Select one of the following two course sequences:		6
EH 217 & EH 218	World Literature I: Before 1660 and World Literature II: 1660-Present	
EH 221 & EH 222	British and Irish Literature I: Before 1800 and British and Irish Literature II: 1800-Present	
EH 223 & EH 224	American Literature I: Before 1865 and 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 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 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 [3]		
Select four of the following:		12
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	
EH/LING 453	History of the English Language	
EH/LING 454	The Biology of Language	
EH/LING 493	Special Topics in Linguistics	
English Electives		
Select one of the following:		3
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 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 330	Professial Writing: Special Topics	
EH 332	Public Discourse: Special Topics	
EH 339	Twentieth Century Theater	
EH 350	Introduction to Linguistics	
EH 351	Structure of English	
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	
EH 369	The American Dream	
EH 389	Bible as Literature	
EH 393	Special Topics in Linguistics	
EH 401	Tutoring Writing	
EH 402	Writing in Popular Periodicals	
EH 403	Business Writing	
EH 404	Technical Writing	
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 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 494	English Honors Research
EH 495	Honors Capstone Thesis
EH 496	Capstone Seminar
EH 497	Individual Studies
Capstone [4]	
Select one of the following:	3
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

Requirements		Hours
Required Courses		
EH 301	Reading, Writing, and Research for English Majors	3
World , British & Irish, or American Literature Survey [1]		
Select one of the following two course sequences:		6
EH 217 & EH 218	World Literature I: Before 1660 and World Literature II: 1660-Present	
EH 221 & EH 222	British and Irish Literature I: Before 1800 and British and Irish Literature II: 1800-Present	
EH 223 & EH 224	American Literature I: Before 1865 and 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 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 [2]		
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	
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 [3]		
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 [3]		
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 [4]		
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.

[3] Students may petition the Director of Professional Writing to have one relevant course in English or another discipline count toward this requirement.

[4] 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			
First Term	**Hours**	**Second Term**	**Hours**
Select one of the following	3	EH 301	3
EH 221		Second course in literature sequence	3
EH 223		EH 222	
EH 217		EH 224	
		EH 218	
	3		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
African, African-American, African Diasporic Literature [1]	3	English as a Language[4]	3
Literature before 1700[2]	3	Literature before 1700 (not previously taken)[2]	3
Literature 1700-1900[3]	3	English Elective (300-400 level)	3
	9		**9**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
Literature post 1900[5]	3	English Elective (300-400 level)	3
English Electives (300-400 level)	6	Capstone[6]	3
	9		**6**

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

[5] Literature post-1900: EH 327, EH 339, EH 366, EH 414, EH 416, EH 427, EH 431, EH 442, EH 444, EH 464, 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.**

Proposed Program of Study for a Major in English with a Concentration in Creative Writing

Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
Literature Sequence - select one:	3	EH 301	3
EH 221		Literature Sequence (select second course of fall sequence)	3
EH 223		EH 222	
EH 217		EH 224	
		EH 218	
	3		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
African, African-Amerian or African-Diasporic Litearature[1]	3	Literature 1700-1900[3]	3
Literature pre-1700[2]	3	English as a Language[4]	3
Begining Workshop select one:	3	Beginning Creative Writing Workshop (Select One):	3
EH 205		EH 205	
EH 305		EH 305	
EH 306		EH 306	
EH 307		EH 307	
EH 308		EH 308	
EH 309		EH 309	
EH 310		EH 310	
	9		**9**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
Literature post-1900[5]	3	Advanced Creative Writing Workshop	3
One Advanced Creative Writing Workshop	3	EH 405	
EH 405		EH 406	
EH 406		EH 407	
EH 407		EH 408	
EH 408		EH 409	
EH 409		EH 410	
EH 410		EH 429	
Creative Writing Forms Class (Select One):	3	EH 436	
EH 412		EH 437	
EH 413		Capstone[6]	3
EH 415			
	9		**6**

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

5 Literature post-1900: EH 327, EH 339, EH 366, EH 414, EH 416, EH 427, EH 431, EH 442, EH 444, EH 464, 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.**

Proposed Program of Study for a Major in English with a Concentration in Linguistics

Sophomore

First Term	Hours	Second Term	Hours
Literature Sequence (Select One):	3	EH 301	3
EH 221		EH 350	3
EH 223		Literature Sequence (Select second sequence from fall):	3
EH 218		EH 222	
		EH 224	
		EH 218	
	3		**9**

Junior

First Term	Hours	Second Term	Hours
African, African-American or African-Diasporic Literature[1]	3	Literature 1700-1900[3]	3
Literature pre-1700[2]	3	Literature post 1900[6]	3
		English as a Language[4]	3
	6		**9**

Senior

First Term	Hours	Second Term	Hours
Linguistics Electives (Select Two):	6	Linguistics Elective (not taken previously)	3
EH 450		EH 450	
EH 451		EH 451	
EH 452		EH 452	
EH 453		EH 453	
EH 454		EH 454	
EH 493		EH 493	
English Elective (300-400 level)	3	Capstone[6]	3
	9		**6**

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

5 Literature post-1900: EH 327, EH 339, EH 366, EH 414, EH 416, EH 427, EH 431, EH 442, EH 444, EH 464, 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.**

Proposed Program of Study for a Major in English with a Concentration in Professional Writing

Sophomore

First Term	Hours	Second Term	Hours
Literature Sequence (Select One):	3	EH 203 or 303	3
EH 221		EH 301	3
EH 223		Literature Sequence (Select second course from fall):	3
EH 217		EH 222	
		EH 224	
		EH 218	
	3		**9**

Junior

First Term	Hours	Second Term	Hours
African, African-American or African Diasporic Literature[1]	3	English as a Language[4]	3
Literature pre-1700[2]	3	Public Discourse (Select One)	3
Professional Writing (Select One):	3	EH 401	
EH 304		EH 402	
EH 403		EH 432	
EH 404		EH 456	
EH 430		EH 457	
EH 433		EH 459	
EH 492		EH 492	
	9		**6**

Senior

First Term	Hours	Second Term	Hours
Literature 1700-1900[3]	3	Public Discourse (Not previously taken)	3
Literature post-1900[5]	3	EH 401	
Professional Writing (Not previously taken):	3	EH 402	
EH 304		EH 456	
EH 403		EH 457	
EH 430		EH 459	
EH 404		EH 492	
EH 433		Capstone[6]	3

EH 492		
	9	**6**

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

5 Literature post-1900: EH 327, EH 339, EH 366, EH 414, EH 416, EH 427, EH 431, EH 442, EH 444, EH 464, 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.**

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

Requirements		Hours
Required Courses [1]		
EH 301	Reading, Writing, and Research for English Majors	3
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	
English Electives [2]		
Select two of the following:		6
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	

EH 369	The American Dream
EH 376	Shakespeare
EH 389	Bible as Literature
EH 393	Special Topics in Linguistics
EH 401	Tutoring Writing
EH 402	Writing in Popular Periodicals
EH 403	Business Writing
EH 404	Technical Writing
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 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 421	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 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.

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 304	Editing in Professional Contexts	
EH 311	English Internship	
EH 330	Professial Writing: Special Topics	
EH 403	Business Writing	
EH 404	Technical Writing	
EH 411	Capstone Internship	
EH 430	Professional Writing: Special Topics	
EH 433	Academic Writing	
Select one or two of the following (Public Discourse):		
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	
Writing Electives [1]		
Select one of the following:		3
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 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 393	Special Topics in Linguistics	
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 436	Workshop in Writing for Young People	
EH 437	Workshop in Writing for Young People	
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	
Total Hours		18

- Students minoring in 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 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.

Minor Requirements for Creative Writing

Requirements		Hours
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 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 310	Beginning Fiction Writing Workshop	
EH 311	English Internship	
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

Requirements		Hours
Required Courses		
EH/LING 350	Introduction to Linguistics	3
EH/LING 451	Generative Grammar	3
General Linguistics [1]		
Select two of the following:		6
EH/LING 351	Structure of English	
EH/LING 360	Phonology	
EH/LING 450	Advanced Grammar	
EH/LING 453	History of the English Language	
EH/LING 493	Special Topics in Linguistics	
LING/ANTH 494	Special Problems in Linguistics	
LING/ANTH 495	Special Problems in Linguistics	
Linguistics Electives [2, 3]		6
Select two of the following:		
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 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	
LING/CS 466	Computational Linguistics	
LING/ANTH 494	Special Problems in Linguistics	
LING/ANTH 495	Special Problems in Linguistics	
Total Hours		18

1 Must be approved: LING 493/EH 493, LING 494/ANTH 494 & LING 495/ANTH 495

2 Must be approved: LING 393/EH 393, 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.

- 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/heritagelanguage 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 (e.g., Advanced Grammar, French Civilization, Contemporary France, French Film, *Fin-de-siècle* Literature, Francophone literature and current issues.) 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, education, art, anthropology, communication studies, business, criminal justice). Students graduating from UAB with a concentration in French have gone on to graduate or professional school and/or employment in such fields as business, education, government, industry, international relations, law, public health, medicine, hotel and restaurant management and publishing.

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 web site: 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)

Requirements		Hours
Foreign Cultures		
FLL 120	Foreign Cultures [1]	3
Additional Introductory Foreign Language Course [1]		
Select one of the following courses:		3-4
ARA 101	Introductory Arabic I	
CHI 101	Introductory Chinese I	
FLL 101	Introductory Foreign Language I	
GN 101	Introductory German I	
ITL 101	Introductory Italian I	
JPA 101	Introductory Japanese I	
SPA 101	Introductory Spanish I /QL	
Foreign Cultures through Literature and Film		
Select one of the following courses:		3
FLL 220	Foreign Literatures in English Translation	
FLL 303	History of World Movies I: The Origins to 1960	
FLL 304	History of World Movies II	
FLL 305	Borders and Crossings inside the Global Village	
EH 218	World Literature II: 1660-Present	
Introduction to Linguistics		
Please select one of the following courses:		3
FLL 350	Introduction to Romance Linguistics	
EH/LING 350	Introduction to Linguistics	
Capstone: Foreign Language Seminar		
FLL 485	Foreign Language Capstone Seminar	3
Study Abroad		
Select six hours from the following:		6
FR 290	Study Abroad	
FR 390	Study Abroad	
FR 490	Study Abroad	
FLL 333	Foreign Language Internship/SL (This course can only satisfy the Study Away requirement with prior approval from the DFLL Chair)	
Total Hours		21-22

1 Also counts in Core Curriculum Area II: Humanities and Fine Art

Other Requirements (Concentration in French)

Requirements		Hours
French 200-level		
Select 12 credit hours from the following courses:		12
FR 201	Intermediate French I	
FR 202	Intermediate French II	
FR 206	Intermediate Business French	
FR 210	Intermediate French Culture	
FR 211	Intermediate Survey of French Literature	
FR 220	Intermediate French Composition	
FR 230	Intermediate French Conversation	
FR 290	Study Abroad	
French 300-level		
Select 12 credit hours from the following courses:		12
FR 305	French-Speaking Cinema	
FR 306	Business French	
FR 308	Advanced Grammar and Composition II	
FR 310	Advanced French Culture	
FR 311	Advanced Survey of French Literature	
FR 320	Advanced French Composition	
FR 330	Advanced French Conversation	
FR 390	Study Abroad	
FR 399	Special Readings in French	
French 400-level (Must be taken at UAB)		
Select 9 credit hours from the following courses:		9
FR 401	Pre-Revolutionary France (1610-1789)	
FR 402	Post-Revolutionary France (1789-1913)	
FR 403	Fin-de-Siecle France (1895-1940)	
FR 404	French Literature since 1940	
FR 405	Francophone Literature	
FR 410	Special Topics in French	
FR 412	French Civilization:before 1789 Pre-Revolutionary	
FR 413	French Civilization after 1789 Post-Revolution	
FR 490	Study Abroad	
FR 499	Directed Studies	
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)

Requirements		Hours
Foreign Cultures [1]		
FLL 120	Foreign Cultures	3
Additional Introductory Foreign Language Course [1]		
Select one of the following courses:		3-4
ARA 101	Introductory Arabic I	
CHI 101	Introductory Chinese I	
FLL 101	Introductory Foreign Language I	
FR 101	Introductory French I	
GN 101	Introductory German I	
ITL 101	Introductory Italian I	
JPA 101	Introductory Japanese I	
Foreign Cultures through Literature and Film		
Select one of the following courses:		3
FLL 220	Foreign Literatures in English Translation	
FLL 303	History of World Movies I: The Origins to 1960	
FLL 304	History of World Movies II	
FLL 305	Borders and Crossings inside the Global Village	
EH 218	World Literature II: 1660-Present	
Introductions to Linguistics		
Select one of the following courses:		3
FLL 350	Introduction to Romance Linguistics	
EH/LING 350	Introduction to Linguistics	
Capstone: Foreign Language Seminar		
FLL 485	Foreign Language Capstone Seminar	3
Study Abroad		
Select six hours of the following:		6
SPA 290	Study Abroad	
SPA 390	Study Abroad	
SPA 490	Study Abroad	
FLL 333	Foreign Language Internship/SL (This course can only satisfy the Study Away requirement with prior approval from the DFLL Chair)	
Total Hours		21-22

[1] Also counts in Core Curriculum Area II: Humanities and Fine Art

Other Requirements (Concentration in Spanish)

Requirements		Hours
Spanish 200-level		
Select 12 credit hours from the following courses:		12
SPA 201	Intermediate Spanish I	
SPA 202	Intermediate Spanish II	
SPA 203	Intermediate Spanish Review	
SPA 206	Intermediate Spanish for the Professions	
SPA 210	Conversation and Culture	
SPA 214	Introduction to Translation and Interpretation for the Professions	
SPA 233	Intermediate Spanish Composition and Conversation	
SPA 280	Spanish for Health Professionals	
SPA 290	Study Abroad	
SPA 299	Special Readings in Spanish	
Spanish 300-level		
Select 12 credit hours from the following courses:		12
SPA 300	Advanced Grammar and Composition	
SPA 304	Phonetics and Phonology	
SPA 310	Cultures of the Spanish-Speaking World	
SPA 311	Survey of Spanish Peninsular Literature	
SPA 312	Survey of Latin American Literature	
SPA 313	Business Spanish	
SPA 314	Spanish Translation and Interpretation	
SPA 380	Advanced Spanish for Health Profess	
SPA 390	Study Abroad	
SPA 399	Special Readings in Spanish	
Spanish 400-level		
Select 9 credit hours from the following courses:		9
SPA 401	Voices of Imperial Spain	
SPA 402	Voices of Colonial Latin America	
SPA 403	Contemporary Spanish Literature and Film	
SPA 405	US Latino Writers	
SPA 407	Indigenous and Indigenist Latin America	
SPA 409	Spanish-Speaking Nobel Laureates	
SPA 411	Cervantes and Imperial Spanish Society	
SPA 412	Voices of Contemporary Latin America 1920-Present	
SPA 414	African Hispanophone Writers	
SPA 416	Special Topics in Spanish	
SPA 420	Introduction to Hispanic Linguistics	
SPA 430	Spanish Sociolinguistics	
SPA 440	History of Spanish Language	
SPA 450	Spanish Second Language Acquisition	
SPA 490	Study Abroad	
SPA 499	Directed Studies	
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

Freshman

First Term	Hours	Second Term	Hours
FLL 120	3	Introductory Foreign Language Course [1]	3
	3		**3**

Sophomore

First Term	Hours	Second Term	Hours
FLL 220 or EH 218	3	French (200-level or above)	6
French (200-level or above)	6	FLL 350 or EH 350	3
	9		**9**

Junior			
First Term	**Hours**	**Second Term**	**Hours**
French (300 level or above)	6	French (300 level or above)	6
		Study Away courses (or FLL 333)[2]	6
	6		**12**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
French (400 level)	6	FLL 485	3
		French (400 level)	3
	6		**6**

Total credit hours: 54

1 Student must choose 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.

Proposed Program of Study for a Major in Foreign Language with a Concentration in Spanish

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
FLL 120	3	Additional Introductory Foreign Language Course[1]	3
	3		**3**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
FLL 220 or EH 218	3	Spanish Courses (200 level or above)	6
Spanish Courses (200 level or above)	6	FLL 350 or EH 350	3
	9		**9**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
Spanish Courses (300 level or above)	6	Spanish Courses (300 level or above)	6
		Study Away courses (or FLL 333)[2]	6
	6		**12**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
Spanish Courses (400 level)	6	FLL 485	3
		Spanish Course (400 level)	3
	6		**6**

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 (SPA 290, SPA 390 or SPA 490). FLL 333 can only satisfy the S.A. requirement with prior approval from the DFLL Chair.

Minor Requirements for French

Requirements		**Hours**
Beginning Language Requirement		8
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.		
No course in which a grade below C has been earned may be counted toward a minor.		
French Courses		12
Select 12 credit hours from 200-level, 300-level, or 400-level French (FR)		
FR 201	Intermediate French I	
FR 202	Intermediate French II	
FR 206	Intermediate Business French	
FR 210	Intermediate French Culture	
FR 211	Intermediate Survey of French Literature	
FR 220	Intermediate French Composition	
FR 230	Intermediate French Conversation	
FR 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		20

Minor Requirements for Spanish

Requirements		**Hours**
Beginning Language Requirement		8
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.		
No course in which a grade below C has been earned may be counted toward a minor.		
Spanish Courses		12
Select 12 credit hours from 200-level, 300-level, or 400-level Spanish (SPA)		
SPA 201	Intermediate Spanish I	
SPA 202	Intermediate Spanish II	
SPA 203	Intermediate Spanish Review	
SPA 206	Intermediate Spanish for the Professions	
SPA 210	Conversation and Culture	
SPA 214	Introduction to Translation and Interpretation for the Professions	
SPA 233	Intermediate Spanish Composition and Conversation	
SPA 280	Spanish for Health Professionals	
SPA 290	Study Abroad	
SPA 299	Special Readings in Spanish	
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		20

Minor in Spanish for Business

Requirements		**Hours**
Required Courses		
SPA 206	Intermediate Spanish for the Professions	3
SPA 313	Business Spanish	3
Spanish Electives		
Select two of the following:		6

SPA 201	Intermediate Spanish I	
SPA 202	Intermediate Spanish II	
SPA 203	Intermediate Spanish Review	
SPA 210	Conversation and Culture	
SPA 214	Introduction to Translation and Interpretation for the Professions	
SPA 233	Intermediate Spanish Composition and Conversation	
SPA 280	Spanish for Health Professionals	
SPA 290	Study Abroad	
SPA 299	Special Readings in Spanish	
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 permisison of the Chair.		
Total Hours		12

Minor Requirements for Chinese

Requirements		Hours
Beginning Language Requirement		6
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.		
Chinese Courses		12
Select 12 credit hours from 200-level Chinese (CHI) or higher:		
CHI 201	Independent Study: Intermediate Chinese I	
CHI 202	Independent Study: Intermediate Chinese II	
CHI 203	Intermediate Chinese Language & 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		18

Minor Requirements for German

Requirements		Hours
Beginning Language Requirement		8
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.		
German Courses		12
Select 12 credit hours from 200-level German (GN) or higher:		
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		20

Minor Requirements for Japanese

Requirements		Hours
Beginning Language Requirement		6
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.		
Japanese Courses		12
Select 12 credit hours from 200-level Japanese (JPA) or higher:		
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		18

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 Profiency 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 DFFL

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

Requirements		Hours
Political Science [2]		
PSC 101	Introduction to American Government [1]	3
PSC 102	Introduction to Comparative Politics [1]	3
PSC 103	Introduction to International Relations [1]	3
PSC 104	Introduction to Political Theory	3
PSC 400	Research in Political Science	3
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	

PSC 322	Women and Politics	
PSC 330	The American Judicial Process	
PSC 331	The U.S. Congress	
PSC 332	The American Presidency	
PSC 333	Political Parties and Interest Groups	
PSC 340	American Political Thought	
PSC 341	Classical Political Thought	
PSC 342	Modern Political Theory	
PSC 370	Politics and the Media	
PSC 380	The Politics of Constitutional Law	
PSC 381	The Bill of Rights	
PSC 495	Directed Research in Political Science	
PSC 496	Independent Studies and Special Projects	
Comparative Politics and International Relations		
PSC 170	Contemporary Political Issues	
PSC 271	Contemporary Political Issues	
PSC 260	American Foreign Policy	
PSC 266	The United Nations	
PSC 272	Model Arab League	
PSC 350	African Politics	
PSC 351	European Political Systems	
PSC 352	Latin/South American Political Systems	
PSC 353	Asian Political Systems	
PSC 355	Politics of Development	
PSC 360	International Security	
PSC 361	North/South International Relations	
PSC 362	Diplomacy	
PSC 363	Nationalism in World Politics	
PSC 382	Political Networks	
PSC 461	International Political Economy	
PSC 465	International Law	
PSC 466	The United Nations	
Political Science Electives		
Select 9 credit hours in Political Science (PSC)		9
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			
First Term	**Hours**	**Second Term**	**Hours**
EH 101	3	EH 102	3
MA 110	3	PSC 102	3
PSC 101	3	PSC 103	3
Core Curriculum Area IV: History[1]	3	Core Curriculum Area II: Humnaities	3
Core Curriculum Area II: Fine Art[2]	3	Core Curriculum Area IV: History Sequence[1]	3
	15		**15**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
PSC 104	3	Core Curriculum Area III: Natural Science with Laboratory	4
Core Curriculum Area II: Literature[3]	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area III: Natural Science with Laboratory	4	Political Science Elective	3
Minor	3	Minor	3
General Elective	3	General Elective	3
	16		**16**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
PSC 400	3	Political Science (300 level or above)	3
Political Science (300 level or above)	3	Political Science (400 level)	3
Minor	3	Political Science Elective	3
General Elective	3	Minor	3
General Elective	3	General Elective	3
	15		**15**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
Political Science (400 level)	3	Political Science (400 level)	3
Political Science (300 level or above)	3	Political Science Elective	3
Capstone Course	3	Minor	3
Minor	3	General Elective	3
General Elective	3	General Elective	1-3
	15		**13-15**
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.

Minor Requirements for Political Science

Requirements		**Hours**
PSC 101	Introduction to American Government [1]	3
Introductory Political Science courses		6
Select two of the following:		
PSC 102	Introduction to Comparative Politics [2]	
PSC 103	Introduction to International Relations [2]	
PSC 104	Introduction to Political Theory	

Political Science Electives [3]	9
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:

Requirements		Hours
PSC 401	Seminar in American Government	3
PSC 402	Seminar in Comparative Politics	3
PSC 403	Seminar in International Relations	3
PSC 404	Seminar in Political Theory	3

- 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.

Requirements		Hours
History Sequence [1]		
Select four of the following courses: [2]		12
HY 101	Western Civilization I	
HY 102	Western Civilization II	
HY 104	World History to 1600	
HY 105	World History 1600 to the Present	
HY 120	The United States To 1877	
HY 121	The United States Since 1877	
Research Courses		
HY 300	The Historian's Craft	3
HY 497	History Capstone	3
History Electives		
Select seven courses in History (HY) not listed above, including three at the 400-level and two at the 300-level or above. Students must take two of their electives in U.S. history and two in non-U.S. history; one of the two non-U.S. history electives must be a non-Western history.		21
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	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 110	3	Core Curriculum Area IV: History[1]	6
Core Curriculum Area IV: History[1]	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area II: Fine Art[2]	3	Core Curriculum Area IV: Social and Behavioral Sciences	3
Core Curriculum Area IV: Social and Behavioral Science	3		
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours
Core Curriculum Area II: Literature[3]	3	HY 300	3
Core Curriculum Area III: Natural Science with Laboratory	4	Core Curriculum Area III: Natural Science with Laboratory	4
History Survey	3	Core Curriculum Area II: Humanities	3
Minor	3	Minor	3
General Elective	3	General Elective	3
	16		**16**

Junior

First Term	Hours	Second Term	Hours
History (300 level and above)	3	History (400 level)	3
History (200 level and above)	3	History (300 level and above)	3
Minor	3	Minor	3
General Elective	6	General Elective	3
		General Elective	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
HY 497	3	History (400 level)	3
History (400 level)	3	History (300 level and above)	3
History (200 level and above)	3	Minor	3
Minor	3	General Elective	3
General Elective	3	General Elective	1-3
	15		**13-15**

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 History

A grade of C or better is required in all courses applied to the minor.

Requirements		Hours
Introductory U.S. History		
Select one of the following:		3
HY 120	The United States To 1877 [1]	
HY 121	The United States Since 1877 [1]	
Introductory History courses		
Select two of the following: [2]		6
HY 101	Western Civilization I [3]	
HY 102	Western Civilization II [3]	
HY 104	World History to 1600	
HY 105	World History 1600 to the Present	
HY 120	The United States To 1877 [3]	
HY 121	The United States Since 1877 [3]	
History Electives		
Select six hours from 300-level or above History (HY) courses and three hours any level history.		9
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 post-graduate 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:

Requirements		Hours
Select four from the following:		12
HY 101	Western Civilization I	
HY 102	Western Civilization II	
HY 104	World History to 1600	
HY 105	World History 1600 to the Present	
HY 120	The United States To 1877	
HY 121	The United States Since 1877	
HY 300	The Historian's Craft [1]	3
HY 497	History Capstone [2]	3
Select two courses at the 300 or 400 level [2]		6
Select two courses at the 400 level or above [2]		6
Select two electives [2]		6
HY 401	Honors Thesis	3
Total Hours		39

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 department also sponsors category "A" and "B" graduate Certificate Programs in Computer Forensics offered jointly with the Department of Computer and Information Sciences.

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

Requirements		Hours
JS 100	Introduction to the Criminal Justice System	3
JS 101	Crime and Criminality	3
JS 220	Police in America: An Overview	3
JS 230	The Judicial Process in America: An Overview	3
JS 240	Corrections in America: An Overview	3
JS 300	Research Methods in Criminal Justice	3
JS 360	Criminology	3
JS 410	Criminal Justice Ethics	3
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 compleiting 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:		9
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 362	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	
JS 442	Race, Crime, Gender and Social Policy	
JS 443	Women and the Criminal Justice System	
JS 460	Violence: An American Tradition	
JS 466	Spatial Analysis and Crime Mapping	
JS 483	Patterns in Crime	
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

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
EH 101	3	EH 102	3
MA 110	3	JS 101	3
JS 100	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area IV: History[1]	3	Core Curriculum Area IV: History[1]	3
Core Curriculum Area IV or Freshman Learning Community	3	Core Curriculum Area IV or Freshman Learning Community	3
	15		**15**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
JS 220	3	JS 230	3
JS 120 (or Equivalent)	3	JS 240	3
Core Curriculum Area II: Literature[2]	3	Core Curriculum Area III: Natural Science with Laboratory	4
Core Curriculum Area II: Fine Art[3]	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area II: Natural Science with Laboratory	4	General Elective	3
	16		**16**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
JS 300	3	Justice Science (400 level)	3
Justice Science (JS) Elective	3	Justice Science (JS) Elective	3
Minor	3	Minor	6
General Elective	3	General Elective	3
JS 360	3		
	15		**15**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
JS 410	3	Capstone (Select one):	3
Justice Science (300-400 level)	3	JS 497	
Minor	6	JS 498	
General Elective	3	JS 499	
		Minor	3
		General Elective	7-9
	15		**13-15**

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

Requirements		**Hours**
Required Justice Science Courses		
JS 100	Introduction to the Criminal Justice System	3
JS 101	Crime and Criminality	3
JS 220	Police in America: An Overview	3
JS 230	The Judicial Process in America: An Overview	3
JS 240	Corrections in America: An Overview	3
Justice Science Electives		6
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

Requirements		**Hours**
Required Courses		
JS 150	Foundations of Law	3

JS 230	The Judicial Process in America: An Overview	3
or PSC 330	The American Judicial Process	
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	
PSC 261	Law and Society	
PSC 270	Law and Film	
PSC 430	American Constitutional Law I	
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

Note: A grade of "C" or better required for all courses

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.

Forensic Psychology Minor

Requirements		Hours
Required Courses		
JS 110	Introduction to Forensic Science	3
JS 125	Introduction to Forensic Psychology	3
or PY 125	Introduction to Forensic Psychology	
JS 330	Criminal Law	3
JS 332	Criminal Evidence	3
JS 460	Violence: An American Tradition	3
PY 218	Abnormal Psychology	3
or PY 372	Social Psychology	
PY 376	Psychology and Law	3
Elective		
Select one of the following special topic courses:		3
PY 420	Special Topics in Psychology [1]	
1) Social Aspects of Forensic Psychology		
2) Cognitive Aspects of Forensic Psychology		
3) Developmental Aspects of Forensic Psychology		
4) Clinical Aspects of Forensic Psychology		
Total Hours		24

[1] Only topic options 1 through 4 may be used to satisfy the PY 420 requirement.

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:

- 00–10 — Pre-calculus
- 11–19 — History of mathematics and mathematical reasoning
- 20–29 — Logic and foundations
- 30–39 — Algebra
- 40–49 — Analysis
- 50–59 — Differential equations
- 60–69 — Applications-oriented courses
- 70–79 — Geometry and topology
- 80–89 — Probability and statistics
- 90–99 — 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

Requirements		Hours
Required Mathematics Courses [1]		
Thirty-nine semester hours with twenty-four at the 300 level or above		
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		
Choose one of the following sequences:		3-6
MA 434 & MA 435	Algebra I: Linear and Algebra II: Modern [2]	
MA 454 & MA 455	Intermediate Differential Equations and Partial Differential Equations I	
MA 455 & MA 461	Partial Differential Equations I and Modeling with Partial Differential Equations	
MA 463 & MA 464	Operations Research I and Operations Research II	
MA 470 & MA 471	Differential Geometry I and Differential Geometry II	
MA 474 & MA 475	Introduction to Topology I and Introduction to Topology II	
MA 485 & MA 486	Probability and Mathematical Statistics	
MA 485 & MA 587	Probability and Advanced Probability	
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 quatitative 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.

Requirements		Hours
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 105	World History 1600 to the Present	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3

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

Requirements		Hours
Required Mathematics Courses [1]		
39 semester hours with 21 hours at the 300 level or above		
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
MA 360	Scientific Programming	3
MA 260	Introduction to Linear Algebra	3
or MA 434	Algebra I: Linear	
MA 455	Partial Differential Equations I	3
or MA 461	Modeling with Partial Differential Equations	
or MA 486	Mathematical Statistics	
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		
Mathematics Electives		9
Select three additional courses of the following courses:		
MA 444	Vector Analysis	
MA 445	Complex Analysis	
MA 454	Intermediate Differential Equations	
MA 455	Partial Differential Equations I	
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 465	Partial Differential Equations: Finite Diff. Meth.	

MA 467	Gas Dynamics	
MA 468	Numerical Analysis	
MA 485	Probability	
MA 486	Mathematical Statistics	
MA 587	Advanced Probability	
Total Hours		39

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.

Requirements		Hours
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 105	World History 1600 to the Present	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3

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

Requirements		Hours
Required Mathematics Courses [1]		
MA 125	Calculus I	4
Select two courses from the following four:		6-8
MA 106	Pre-Calculus Trigonometry [2]	
or MA 107	Precalculus Algebra and Trigonometry	
MA 110	Finite Mathematics	
MA 126	Calculus II	
MA 485	Probability	
MA 311	History of Mathematics I	3
MA 313	Patterns, Functions and Algebraic Reasoning	3
MA 314	Geometric and Proportional Reasoning	3
MA 361	Mathematical Modeling	3
MA 411	Integrating Mathematical Ideas	3
MA 418	Statistics for Teachers	3
Mathematics Electives		
Select two of the following:		6
MA 316	Numerical Reasoning	
MA 472	Geometry I	
MA 434	Algebra I: Linear	
MA 485	Probability	
MA 419	Special Topics [3]	
Total Hours		34-36

1 Completion of MA 106 or MA 107 automatically satisfies the Core Curriculum Area III: Math requirement. MA 106, MA 107, MA 110, MA 125, MA 361, MA 418 are all quantitative literacy courses satisfying the QEP requirements of the Core Curriculum. In addition, MA 361 is a QEP writing (W) course. UAB requires that all students complete a capstone requirement. The capstone requirement for this track is MA 411 .

2 Students cannot count both MA 106 and MA 107 toward their major.

3 MA 419 cannot be repeated for credit toward this major.

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.

Requirements		Hours
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 105	World History 1600 to the Present	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3

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 Traditional Track

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
MA 125	4	MA 126	4

EH 101	3	EH 102	3
HY 101	3	HY 102	3
ARH 101	3	CS 201	4
	13		**14**

Sophomore

First Term	Hours	Second Term	Hours
MA 227	4	MA 252	3
EH 216	3	MA 361	3
PH 221	4	CS 250	3
CS 302	4	PH 222	4
		General Elective	3
	15		**16**

Junior

First Term	Hours	Second Term	Hours
MA 434	3	MA 435	3
MA 485	3	MA 486	3
CMST 101	3	EC 210	3
CS 303	4	CS 334	3
PY 101	3	PHL 115	3
	16		**15**

Senior

First Term	Hours	Second Term	Hours
MA 440	3	MA 441	3
MA 472	3	General Electives	13
CS 410	3		
MA 311	3		
General Elective	3		
	15		**16**

Total credit hours: 120

Proposed Program of Study for a Major in Mathematics with an Applied Mathematics and Scientific Computation Track

Freshman

First Term	Hours	Second Term	Hours
MA 125	4	MA 126	4
EH 101	3	EH 102	3
HY 101	3	HY 102	3
ARH 101	3	CS 201	4
CS 101	3		
	16		**14**

Sophomore

First Term	Hours	Second Term	Hours
MA 227	4	MA 252	3
EH 216	3	MA 361	3
MA 360	3	PH 222	4
CS 302	4	CS 250	3
PH 221	4	General Elective	3
	18		**16**

Junior

First Term	Hours	Second Term	Hours
MA 260	3	MA 454	3
MA 455	3	EC 210	3
CMST 101	3	CS 334	3
CS 303	4	PHL 115	3
PY 101	3	Mathematics (MA) Elective (Must be Approved)	3
	16		**15**

Senior

First Term	Hours	Second Term	Hours
MA 485	3	MA 486	3
CS 410	3	General Electives	10
Elective	3		
General Elective	3		
	12		**13**

Total credit hours: 120

Proposed Program of Study for a Major in Mathematics with a Mathematical Reasoning Track

Freshman

First Term	Hours	Second Term	Hours
MA 110	3	MA 106	3
EH 101	3	EH 102	3
HY 101	3	HY 102	3
ARH 101	3	EDU 200	3
FYE Course (credit hours may vary)	1	HPE 200	2
		General Elective	3
	13		**17**

Sophomore

First Term	Hours	Second Term	Hours
MA 125	4	MA 314	3
EH 216	3	PHL 100	3
MA 313	3	ECY 300	3
EDT 300	3	PH 201	4
PY 101	3	EDF 362	3
	16		**16**

Junior

First Term	Hours	Second Term	Hours
MA 311	3	Elective	3
MA 418	3	CMST 101	3
PH 202	4	MA 419	3
EPR 363	3	Education Certification Course	3
SOC 100	3	MA 411	3
	16		**15**

Senior

First Term	Hours	Second Term	Hours
EDR 442	3	Education Internship	10
MA 472	3		
Education Certification Course	8		
MA 361	3		
	17		**10**

Total credit hours: 120

Minor Requirements for Mathematics

Requirements		Hours
Required Mathematics Courses		
MA 125	Calculus I [1]	4
MA 126	Calculus II	4

MA 227	Calculus III	4
Mathematics Electives		
Select nine hours from Mathematics courses numbered 200 or above. [2]		9
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			
First Term	**Hours**	**Second Term**	**Hours**
MA 125	4	MA 126	4
EH 101	3	EH 102	3
HY 101	3	HY 102	3
ARH 101	3	EC 210	3
FYE/FLC Course (credit hours may vary)	2	PHL 115	3
	15		**16**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
MA 227	4	MA 252	3
MA 298	1	MA 361	3
MA 434	3	MA 298	1
EH 216	3	PH 221	4
EC 210	3	EC 211	3
Minor Course	3		
	17		**14**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
MA 398	1	MA 441	3
MA 440	3	MA Elective	3
MA 490	1	MA 398	1
PH 222	4	MA 490	1
MA Elective	3	CMST 101	3
Minor Course	3	Minor Course	3
	15		**14**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
MA 490	1	MA Sequence	3
MA sequence	3	MA 491	1
MA 498	1	MA 498	1
Minor Courses	6	Minor Courses	3
General Electives	4	General Electives	6
	15		**14**

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 Alys 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 as 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:

- Accompaniment improvisations (see *Progressive Class Piano*; each chapter contains sections on harmonization and improvisation).
- Transpose a simple accompaniment or song at sight (see *Progressive Class Piano*, Chapter 5 pages 195-204 for examples).
- Play the progression I-IV–I $^{6}_{4}$–V^{7}-I hands together in all major and minor keys.

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 Alabama teaching certificate is issued for two teaching fields in music: instrumental music and vocal/choral music, both valid for kindergarten through grade twelve. Students in any of the teacher certification areas in Music Education are required to earn credit in at least one music ensemble per term for a minimum of seven terms. In fulfilling 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 terms of the required ensemble participation must include involvement in the appropriate Major Ensemble (see above). Credit earned in excess of the minimum semester hour requirements for ensembles may be applied to music electives within the general studies portion of the teacher certification program.

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

Requirements		Hours
Freshman Year Experience Requirement		
CAS 112	Success in College	1
Computer Music		
MU 115	Computer Music I	3
Music Theory and Aural Skills [1]		
MU 221 & MU 224	Music Theory I and Aural Skills I	4
MU 222 & MU 225	Music Theory II and Aural Skills II	4
MU 321 & MU 324	Music Theory III and Aural Skills III	4
MU 322 & MU 325	Music Theory IV and Aural Skills IV	4
Music History and Literature		
MU 366	Music in World Cultures	2-3
MU 471	Music History and Literature to 1750	3
MU 472	Music Hist/Lit 1750-Present	3
Music Theory Elective		
Select 3 hours from the following courses:		3
MU 359	Composition I	
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	
Music Elective		
Select three hours from the following Music (MU) or Music Performance (MUP) courses:		3
MU 165	Jazz Styles: History and Appreciation	
MU 199	Independent Studies	

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 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
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 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
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 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	
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 [2]		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 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 340	Private Lessons: Voice	
MUP 350	Private Lessons: Piano	
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 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: 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 Capstone		
MUP 497	Senior Recital/Project	0
Total Hours		52-53

[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." 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

Requirements		Hours
Freshman Year Experience Requirement		
CAS 112	Success in College	1
Music Theory and Aural Skills [1]		
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 Theory Elective		
Select three hours from the following courses:		3
MU 359	Composition I	
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	
Music History and Literature		
MU 366	Music in World Cultures	2-3
MU 472	Music Hist/Lit 1750-Present	3
Music Technology		
MU 115	Computer Music I	3
MU 245	Recording Technology I	3
MU 341	Computer Music II	3
MU 342	Computer Music III	3
MU 345	Recording Technology II	3
MU 441	Multimedia Productions	3
Music Ensembles [2]		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 four hours from Music Performance (MUP) courses designated "Private Lessons" at the 200-level or higher (each course may be repeated for credit)		4
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 340	Private Lessons: Voice	
MUP 350	Private Lessons: Piano	
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 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: 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)

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 [3]		
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	2-3
MU 471	Music History and Literature to 1750	3
MU 472	Music Hist/Lit 1750-Present	3
Conducting		
MU 329	Conducting I	2
MU 429	Advanced Conducting/Techniques	2
Music Ensemble [4]		7
Major Ensemble: Take at least 6 hours		
MUP 225	Symphony Band	
MUP 231	Orchestra	
MUP 232	Marching Band	
MUP 235	Wind Symphony	
Minor Ensemble: Take remaining hours		
MUP 221	Jazz Combo	
MUP 230	Guitar Ensemble	
MUP 234	Percussion Ensemble	
MUP 236	Jazz Ensemble	
MUP 237	Blazer Band	
MUP 341	Computer Music Ensemble	
MUP 353	Piano Ensemble	
Applied Music		
Select seven hours from Music Performance (MUP) courses designated "Private Lessons" 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:		7
MUP 250	Private Lessons: 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 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 280	Private Lessons: 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 350	Private Lessons: Piano	
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 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: Viola	
MUP 493	Private Lessons: Cello	
MUP 494	Private Lessons: Bass	
MUP 495	Private Lessons: Guitar	
Music Elective		
Select 2 hours from the following:		2
MU 145	The Music Business	
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	
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 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 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 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
Applied Methods		
MUP 122	Class Voice	1
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
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
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		105-106

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 [3]		
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
MU 429	Advanced Conducting/Techniques	2
Music Ensemble [4]		7
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.		7
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:		3
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	

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 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
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
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
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

Freshman

First Term	Hours	Second Term	Hours
CAS 112	1	EH 102	3
EH 101	3	MU 115	3
MA 110 or 105	3	MU 120 (or other Fine Arts course)	3
MU 221	3	MU 222	3
MU 224	1	MU 225	1
MUP 001	0	MUP 001	0
MUP 124	1	MUP 124	1
Applied Lessons	1	Applied Lessons	1
Ensemble	1	Ensemble	1
	14		**16**

Sophomore

First Term	Hours	Second Term	Hours
Area II Literature course	3	Area II or IV course to complete sequence	3
Area III Science course with Lab	4	Area III: Natural Science with Lab	4

Area IV History course	3	MU 322	3
MU 321	3	MU 325	1
MU 324	1	MU 366	2
MUP 001	0	MUP 001	0
MUP 124	1	MUP 125	0
Applied Lessons	1	Applied Lessons	1
Ensemble	1	Ensemble	1
	17		**15**

Junior

First Term	**Hours**	**Second Term**	**Hours**
Area IV Social/Behavioral Science course	3	Area II Humanities course	3
Area II or IV course	3	Area IV HY or SBS course	3
MU 329	2	Advanced Theory course	3
MU 471	3	MU 472	3
MUP 001	0	MUP 001	0
Applied Lessons	2	Applied Lessons	2
Ensemble	1	Ensemble	1
	14		**15**

Senior

First Term	**Hours**	**Second Term**	**Hours**
Electives	12	Electives	12
MUP 001	0	Music Elective (if needed)	
Applied Lessons	2	Applied Lessons	2
Ensemble	1	MUP 497	0
	15		**14**

Total credit hours: 120

Proposed Program of Study for a Major in Music Education (Choral)

Freshman

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
CAS 112	1	HPE 200	2	Area III Science course with Lab	4
EH 101	3	EH 102	3	Area IV required course	3
CMST 101	3	Area III MA 105, 110, or higher	3	SOC 100	
MU 120	3	MU 115	3	ANTH 101	
MU 221	3	MU 222	3	GEO 121	
MU 224	1	MU 225	1		
MUP 001	0	MUP 001	0		
MUP 124	1	MUP 124	1		
Applied Lessons	1	Applied Lessons	1		
Ensemble	1	Ensemble	1		
	17		**18**		**7**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
Area II Literature course	3	Literature course to complete sequence	3	Area III Science course with Lab	4
EDU 200	3	PY 101	3	Area IV History course	3
MU 321	3	MU 322	3		
MU 324	1	MU 325	1		
MU 329	2	MU 366	2		
MUP 001	0	MU 429	2		
MUP 124	1	MUP 001	0		
MUP 132	1	MUP 125	0		
MUP 136	1	MUP 134	1		
Applied Lessons	1	Applied Lessons	1		
Ensemble	1	Ensemble	1		
	17		**17**		**7**

Junior

First Term	**Hours**	**Second Term**	**Hours**
Area IV Elective	3	EPR 363	3
ECY 300	3	EDT 300	3
EDF 362	3	EMU 402	3
EHS 471	1	EMU 403	1
MU 471	3	MU 472	3
MUP 001	0	MUP 001	0
MUP 138	1	Applied Lessons	1
Applied Lessons	1	Ensemble	1
Ensemble	1		
	16		**15**

Senior

First Term	**Hours**	**Second Term**	**Hours**
EHS 401	3	EMU 490	9
EHS 402	1	EMU 499	1
EMU 404	3		
EMU 405	1		
EPR 411	3		
EDR 442	1,3		
Applied Lessons	1		
Ensemble	1		
	14-16		**10**

Total credit hours: 138-140

Proposed Program of Study for a Major in Music Education (Instrumental)

Freshman

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
CAS 112	1	HPE 200	2	Area III Science course with Lab	4
EH 101	3	EH 102	3	Area IV Required course	3
CMST 101	3	Area III Mathematics: MA 105, 110 or higher	3	SOC 100	
MU 120	3	MU 115	3	ANTH 101	
MU 221	3	MU 222	3	GEO 121	
MU 224	1	MU 225	1		
MUP 001	0	MUP 001	0		
MUP 124	1	MUP 124	1		
Applied Lessons	1	Applied Lessons	1		
Ensemble	1	Ensemble	1		
	17		**18**		**7**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
Area II Literature course	3	Area II Literature course to complete sequence	3	Area III Science course with Lab	4
EDU 200	3	PY 101	3	Area IV History course	3
MU 321	3	MU 322	3		
MU 324	1	MU 325	1		
MU 329	2	MU 429	2		
MU 366	2	MUP 001	0		
MUP 001	0	MUP 122	1		
MUP 125	0	Applied Lessons	1		
MUP 132	1	Ensemble	1		
Applied Lessons	1				
Ensemble	1				
	17		**15**		**7**

Junior

First Term	Hours	Second Term	Hours
Area IV Elective	3	EPR 363	3
ECY 300	3	EDT 300	3
EDF 362	3	EMU 402	3
EHS 471	1	EMU 403	1
MU 471	3	MU 472	3
MUP 001	0	MUP 001	0
MUP 136	1	MUP 134	1
MUP 138	1	Applied Lessons	1
Applied Lessons	1	Ensemble	1
Ensemble	1		
	17		**16**

Senior

First Term	Hours	Second Term	Hours
EHS 401	3	EMU 490	9
EHS 402	1	EMU 499	1
EMU 404	3		
EMU 405	1		
EPR 411	3		
EDR 442	1,3		
MUP 001	0		
Applied Lessons	1		
Ensemble	1		
	14-16		**10**

Total credit hours: 138-140

Proposed Program of Study for a Major in Music Technology

Freshman

First Term	Hours	Second Term	Hours
CAS 112	1	EH 102	3
EH 101	3	Area III Mathematics course: MA 110, 105 or above	3
MU 120 (or other Fine Arts course)	3	MU 115	3
MU 221	3	MU 222	3
MU 224	1	MU 225	1
MUP 001	0	MUP 001	0
MUP 124	1	MUP 124	1
Applied Lessons	1	Applied Lessons	1
Ensemble	1	Ensemble	1
	14		**16**

Sophomore

First Term	Hours	Second Term	Hours
Area II Literature course	3	Area II or IV course to complete sequence	3
Area IV History course	3	MU 322	3
MU 245	3	MU 325	1
MU 321	3	MU 345	3
MU 324	1	MU 366	2
MUP 001	0	MUP 001	0
MUP 124	1	MUP 125	0
Applied Lessons	1	Applied Lessons	1
Ensemble	1	Ensemble	1
	16		**14**

Junior

First Term	Hours	Second Term	Hours
Music History or Literature course	3	Area II Elective	3
Area III Science course with Lab	4	Area III Science course with Lab	4
Area IV SBS Elective	3	Area IV Elective	3
MU 341	3	MU 342	3
Advanced Theory	3	MU 472	3
MUP 001	0	MUP 001	0
Ensemble	1	Ensemble	1
	17		**17**

Senior

First Term	Hours	Second Term	Hours
Remaining Area II or IV Elective	3	MU 498	1
MU 441	3	Electives (any discipline)	11
MUP 001	0		
Ensemble	1		
Electives (any discipline)	7		
	14		**12**

Total credit hours: 120

Minor Requirements for Music

Requirements		Hours
Music Theory		
MU 221	Music Theory I	3
MU 222	Music Theory II	3
Aural Skills		
MU 224	Aural Skills I	1
MU 225	Aural Skills II	1
Music History and Literature		
MU 471	Music History and Literature to 1750	3
MU 472	Music Hist/Lit 1750-Present	3
Music Ensemble		
Select six hours from the following courses (all courses may be repeated for credit)		6
MUP 110	Gospel Choir	
MUP 120	University Chorus	
MUP 220	Concert Choir	
MUP 221	Jazz Combo	
MUP 225	Symphony Band	
MUP 230	Guitar Ensemble	
MUP 231	Orchestra	
MUP 232	Marching Band	
MUP 234	Percussion Ensemble	
MUP 235	Wind Symphony	
MUP 236	Jazz Ensemble	
MUP 237	Blazer Band	
MUP 320	Chamber Singers	
MUP 321	Women’s Chorale	
MUP 341	Computer Music Ensemble	
MUP 353	Piano Ensemble	
MUP 420	Opera Workshop	
Applied Music		
Select three hours from Music Performance (MUP) courses designated "Private Lessons" (each course may be repeated for credit)		3

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 240	Private Lessons: Voice
MUP 250	Private Lessons: 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 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 280	Private Lessons: 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 340	Private Lessons: Voice
MUP 350	Private Lessons: Piano
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 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: Viola
MUP 493	Private Lessons: Cello
MUP 494	Private Lessons: Bass
MUP 495	Private Lessons: Guitar
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
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 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 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 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 280	Private Lessons: 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 320	Chamber Singers
MUP 321	Women’s Chorale
MUP 340	Private Lessons: Voice
MUP 341	Computer Music Ensemble
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 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
Total Hours	26

Minor Requirements for Music Technology

Requirements		Hours
Music Theory		
MU 221	Music Theory I	3
MU 222	Music Theory II	3
Aural Skills		
MU 224	Aural Skills I	1
MU 225	Aural Skills II	1
Music History and Literature		
MU 261	Introduction to Music Literature	3
Music Ensemble		4
Select four hours from the following courses (all courses may be repeated for credit)		
MUP 110	Gospel Choir	
MUP 120	University Chorus	
MUP 220	Concert Choir	
MUP 221	Jazz Combo	
MUP 225	Symphony Band	
MUP 230	Guitar Ensemble	
MUP 231	Orchestra	
MUP 232	Marching Band	
MUP 234	Percussion Ensemble	
MUP 235	Wind Symphony	
MUP 236	Jazz Ensemble	
MUP 237	Blazer Band	
MUP 320	Chamber Singers	
MUP 321	Women’s Chorale	
MUP 341	Computer Music Ensemble	
MUP 353	Piano Ensemble	
MUP 420	Opera Workshop	
Applied Music		2
Select two hours from the following courses:		
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 240	Private Lessons: Voice
MUP 250	Private Lessons: 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 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 280	Private Lessons: 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 340	Private Lessons: Voice
MUP 350	Private Lessons: Piano
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 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: Viola
MUP 493	Private Lessons: Cello
MUP 494	Private Lessons: Bass
MUP 495	Private Lessons: Guitar
Music Technology	
MU 115	Computer Music I 3
MU 245	Recording Technology I 3
MU 341	Computer Music II 3
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,

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

Requirements		Hours
Philosophy Requirements		
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.		30
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 230	Social and Political Philosophy	
PHL 232	Classical Political Thought	
PHL 233	Modern Political Theory	
PHL 239	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 309	Teaching Practicum	
PHL 314	Philosophy and Feminism	

PHL 315	Ethics: Theories of Good and Evil	
PHL 320	Intermediate Symbolic Logic	
PHL 321	Cooperation and Competition	
PHL 322	Philosophical Issues in Behavior Economics	
PHL 330	Libertarianism: A Political Philosophy	
PHL 335	Philosophy of Law	
PHL 341	History of Philosophy: Descartes to Hume	
PHL 348	American Philosophy	
PHL 350	Philosophy of Language	
PHL 372	Minds and Machines	
PHL 375	Philosophy of Mind	
PHL 390	Topics in Philosophy	
PHL 391	Topics in Philosophy	
PHL 392	Topics in Philosophy	
PHL 405	Epistemology: Theories of Knowledge	
PHL 408	Metaphysics	
PHL 435	Philosophy of Law	
PHL 442	History of Philosophy: Kant and 19th Century	
PHL 443	History of Philosophy: Twentieth Century	
PHL 470	Philosophical Problems in the Natural and Social Sciences	
PHL 490	Philosophy Seminar	
PHL 491	Philosophy Seminar	
PHL 492	Philosophy Seminar	
PHL 499	Directed Studies	
PHL 517	Principles of Scientific Integrity	
PHL 590	Directed Readings	
PHL 770	Philosophy of Science	
PHL 790	Problems ProSeminar	
PHL 791	Problems ProSeminar	
PHL 792	Problems ProSeminar	
Total Hours		30

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

Requirements		Hours
Spine Requirements		
MA 109	Survey of Calculus	3
PHL 322	Philosophical Issues in Behavior Economics	3
PHL 321	Cooperation and Competition	3
PHL 491	Philosophy Seminar (Capstone)	3
Statistics Requirement		
Select one of the following:		3
MA 180	Introduction to Statistics	
JS 120	Introduction to Statistics	
PY 214	Elementary Statistical Methods and Design	
SOC 410	Social Statistics	
QM 214	Quantitative Analysis I	
Economics Requirements		
EC 210	Principles of Microeconomics	3
EC 211	Principles of Macroeconomics	3
EC 304	Microeconomics	3
Select one of the following:		3
EC 301	Money and Banking	
EC 303	Labor Economics	
EC 305	Macroeconomics	
EC 308	Economics of Environment	
EC 310	Managerial Economics	
EC 401	Mathematical Approach in Economics and Business	
EC 403	Monetary Economics	
EC 404	Topics in Public Policy	
EC 405	Economic Development and Growth	
EC 407	International Economics	
EC 408	Topics in the History of Economic Theory	
EC 409	Survey of Econometrics	
EC 411	Public Finance	
EC 413	Urban Economics	
EC 414	Industrial Organization	
EC 420	Applied Forecasting	
EC 425	Applied Regression Analysis	
EC 440	Economics for Educators	
EC 460	Economics Internship	
EC 490	Advanced Topics in Economics	
EC 499	Directed Readings in Economics	
EC 540	Economics for Educators	
Major Electives		
Select seven of the following courses, with no more than 9 hours at the 100 level		21
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 230	Social and Political Philosophy	
PHL 232	Classical Political Thought	
PHL 233	Modern Political Theory	
PHL 239	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	
PHL 315	Ethics: Theories of Good and Evil	
PHL 320	Intermediate Symbolic Logic	
PHL 321	Cooperation and Competition	
PHL 322	Philosophical Issues in Behavior Economics	
PHL 330	Libertarianism: A Political Philosophy	
PHL 335	Philosophy of Law	
PHL 341	History of Philosophy: Descartes to Hume	
PHL 348	American Philosophy	
PHL 350	Philosophy of Language	

PHL 372	Minds and Machines
PHL 375	Philosophy of Mind
PHL 390	Topics in Philosophy
PHL 391	Topics in Philosophy
PHL 392	Topics in Philosophy
PHL 405	Epistemology: Theories of Knowledge
PHL 408	Metaphysics
PHL 435	Philosophy of Law
PHL 442	History of Philosophy: Kant and 19th Century
PHL 443	History of Philosophy: Twentieth Century
PHL 470	Philosophical Problems in the Natural and Social Sciences
PHL 490	Philosophy Seminar
PHL 492	Philosophy Seminar
PHL 499	Directed Studies
PHL 517	Principles of Scientific Integrity
PHL 590	Directed Readings
PHL 770	Philosophy of Science
PHL 790	Problems ProSeminar
PHL 791	Problems ProSeminar
PHL 792	Problems ProSeminar
Total Hours	48

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	**Hours**	**Second Term**	**Hours**
PHL 100 or 115	3	PHL 100 or 115	3
		PHL 120	3
	3		**6**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
Any two 200 or 300 level philosophy classes	6	Any 200 or 300 level philosophy class	3
	6		**3**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
Any two 300 or 400 level philosophy classes	6	Any 300 or 400 level class	3
	6		**3**
Senior			
First Term	**Hours**		
PHL 490	3		
	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	**Hours**	**Second Term**	**Hours**
PHL 100	3	PHL 120	3
	3		**3**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
MA 109[1]	3	QM 214	3
PHL 230	3	EC 210[1]	3
	6		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
PHL 322[1]	3	PHL 321[1]	3
EC 211[1]	3	EC 408	3
PHL 315[1]	3	PHL 375	3
	9		**9**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
EC 304[1]	3	PHL 491[1]	3
PHL 405	3	PHL 470	3
	6		**6**

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 specialization 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

Requirements		Hours
Required Philosophy Courses		
PHL 135	The Rule of Law	3
PHL 230	Social and Political Philosophy	3
PHL 335	Philosophy of Law	3
or PHL 435	Philosophy of Law	
Ethical Theory		
Select one of the following:		3
PHL 125	Introduction to Ethics	
PHL 215	History of Moral Philosophy	
PHL 315	Ethics: Theories of Good and Evil	
Electives		6
Select two of the following (other courses may be selected with approval of director):		
JS 150	Foundations of Law	
JS 230	The Judicial Process in America: An Overview	
PSC 330	The American Judicial Process	
PSC 340	American Political Thought	
PSC 380	The Politics of Constitutional Law	
PSC 381	The Bill of Rights	
Total Hours		18

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.

Requirements		Hours
Ethics and Value Theory		
Select two of the following:		6
PHL 115	Contemporary Moral Issues	
PHL 116	Bioethics	
PHL 125	Introduction to Ethics	
PHL 135	The Rule of Law	
PHL 215	History of Moral Philosophy	
PHL 230	Social and Political Philosophy	
PHL 232	Classical Political Thought	
PHL 233	Modern Political Theory	
PHL 315	Ethics: Theories of Good and Evil	
PHL 330	Libertarianism: A Political Philosophy	
PHL 335	Philosophy of Law	
History of Philosophy		
Select two of the following:		6
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:		9
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:		3
PHL 490	Philosophy Seminar	
PHL 491	Philosophy Seminar	
PHL 492	Philosophy Seminar	
Philosophy Electives		
Select three of the following:		9
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 230	Social and Political Philosophy	
PHL 232	Classical Political Thought	
PHL 233	Modern Political Theory	
PHL 239	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	

PHL 315	Ethics: Theories of Good and Evil	
PHL 320	Intermediate Symbolic Logic	
PHL 321	Cooperation and Competition	
PHL 322	Philosophical Issues in Behavior Economics	
PHL 330	Libertarianism: A Political Philosophy	
PHL 335	Philosophy of Law	
PHL 341	History of Philosophy: Descartes to Hume	
PHL 348	American Philosophy	
PHL 350	Philosophy of Language	
PHL 372	Minds and Machines	
PHL 375	Philosophy of Mind	
PHL 390	Topics in Philosophy	
PHL 391	Topics in Philosophy	
PHL 392	Topics in Philosophy	
PHL 405	Epistemology: Theories of Knowledge	
PHL 408	Metaphysics	
PHL 435	Philosophy of Law	
PHL 442	Hist of PHL:Kant and 19th Cent	
PHL 443	History of Philosophy: Twentieth Century	
PHL 470	Philosophical Problems in the Natural and Social Sciences	
PHL 490	Philosophy Seminar	
PHL 491	Philosophy Seminar	
PHL 492	Philosophy Seminar	
PHL 499	Directed Studies	
PHL 517	Principles of Scientific Integrity	
PHL 590	Directed Readings	
PHL 770	Philosophy of Science	
PHL 790	Problems ProSeminar	
PHL 791	Problems ProSeminar	
PHL 792	Problems ProSeminar	
Honors Thesis		3
PHL 499	Directed Studies *	
Total Hours		36

* To register for this course, contact the Department of Philosophy

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 ofScience 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

Requirements		Hours
Required Chemistry		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
Required Mathematics		
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
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 465	Partial Differential Equations: Finite Diff. Meth.	
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

Grade Requirement

Students must earn a grade of “C” or better in all courses applied to this major.

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

Requirements		Hours
Required Biology		
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
Required Chemistry		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
CH 235 & CH 236	Organic Chemistry I and Organic Chemistry I Laboratory	4
CH 237 & CH 238	Organic Chemistry II and Organic Chemistry II Laboratory	4
Required Mathematics		
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
Mathematics Elective		
Select one of the following courses:		3
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 465	Partial Differential Equations: Finite Diff. Meth.	
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

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
CH 115	3	CH 117	3
CH 116	1	CH 118	1
MA 125	4	MA 126	4
MU 120	3	PHL 115	3
CAS 1xx (Freshman Year Experience)	2	ARH 101	3
	16		**17**

Sophomore

First Term	Hours	Second Term	Hours
PH 221	4	PH 222	4
MA 227	4	MA 252	3
EH 216	3	CS 101	3
HY 101	3	HY 102	3
PE 11x (Physical Education Elective)	1	SOC 100	3
	15		**16**

Junior

First Term	Hours	Second Term	Hours
PH 351	4	PH 352	4
MA 260	3	PH 432	3
PH 461	3	PH 462	3
PH 420	3	MA 361	3
ANTH 101	3	PH 491	2
	16		**15**

Senior

First Term	Hours	Second Term	Hours
PH 445	3	PH 446	3
PH 450	3	PH 451	3
PH 4xx (Advanced Physics Elective)	4	PH 4xx (Advanced Physics Elective)	3
EC 210	3	PH 499	3
	13		**12**

Total credit hours: 120

Proposed Program of Study for a Major in Physics with a Biophysics Track

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
CH 115	3	CH 117	3
CH 116	1	CH 118	1
MA 125	4	MA 126	4
BY 123	4	BY 124	4
CAS 1xx (Freshman Year Experience)	2		
	17		**15**

Sophomore

First Term	Hours	Second Term	Hours
PH 221	4	PH 222	4
MA 227	4	MA 252	3
CH 235	3	CH 237	3
CH 236	1	CH 238	1
HY 101	3	HY 102	3
		SOC 100	3
	15		**17**

Junior

First Term	Hours	Second Term	Hours
PH 351	4	PH 352	4
PHL 115	3	PH 491	4
EC 210	3	PH 432	3

PH 420	3	MA 2xx or above (Math Elective)	3
CS 101	3		
	16		**14**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
PH 445	3	PH 4xx (Advanced Physics Elective)	3
PH 461	3	PH 499	3
PH 475	3	MU 120	3
EH 216	3	ANTH 101	3
ARH 101	3		
	15		**12**

Total credit hours: 121

Minor Requirements for Physics

Requirements		**Hours**
Required Physics Courses		
PH 221	General Physics I [1]	4
PH 222	General Physics II [1]	4
PH 351	Modern Physics I	4
Physics Electives		
Select 6 hours from the following:		6
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/undergraduate

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

Requirements		Hours
Biology, Chemistry, or Physics		
Select two courses from the following areas:		6
Biology (BY) [1]		
Chemistry (CH) [1]		
Physics (PH) [1]		
General Requirements [2]		
PY 101	Introduction to Psychology	3
or PY 201	Honors Introduction to Psychology	
PY 212	Developmental Psychology	3
PY 215	Research Literacy in Psychology	2
PY 216	Elementary Statistical Methods and Design with Laboratory	4
PY 218	Abnormal Psychology	3
PY 316	Research Methods in Psychology	3
PY 253	Brain, Mind and Behavior	3
PY 490	Psychology Capstone/SL	3
Advanced Coursework		
Select two of the following:		6
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 Pyschology (PY) courses, including two courses at the 400 level not otherwise required [3]		9
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 may apply a maximum of 3 semester hours of PY 398 (research), and/or PY 396 (teaching), and/or PY 397 (community) to their major and minor requirements. 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

Freshman

First Term	Hours	Second Term	Hours
PY 101	3	PY 212	3
EH 101	3	PY 215	2
Core Curriculum Area IV: History[1]	3	Core Curriculum Area IV: History[1]	3
MA 110	3	EH 102	3
Core Curriculum Area II: Fine Art[2]	3	Core Curriculum Area II: Humanities	3
	15		**14**

Sophomore

First Term	Hours	Second Term	Hours
Core Curriculum Area II: Literature[3]	3	PY 253	3
PY 216	4	PY 315	4
PY 218	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area III: Natural Science[4]	4	Minor	3
		General Elective	3
	14		**16**

Junior

First Term	Hours	Second Term	Hours
Psychology (PY) 300-level[5]	3	Psychology (PY) 300-level[5]	3
Psychology (PY) 300-level	3	Psychology (PY) 400-level	3
Core Curriculum Area III: Natural Science with Lab[4]	4	Minor	3
Minor	3	General Electives	6
General Elective	3		
	16		**15**

Senior

First Term	Hours	Second Term	Hours
PY 490	3	Psychology (PY) 400-level	3
Psychology Elective (Select One):	3	Psychology Elective (Select One)	3
PY 396		PY 396	
PY 397		PY 397	
PY 398		PY 398	
Minor	3	Minor	6
General Electives	6	General Electives	3
	15		**15**

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

Requirements		Hours
Introductory Psychology Course		
PY 101	Introduction to Psychology [1]	3
or PY 201	Honors Introduction to Psychology	
Advanced Psychology		9
Select nine hours from Psychology (PY) courses at the 300 level or above [2]		
Psychology Electives		6
Select six hours from Psychology (PY) courses not otherwise required. [2]		
Total Hours		18

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.

2 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		Hours
Biology, Chemistry or Physics		
Select two courses from the following areas:		6
Biology (BY) [1]		
Chemistry (CH) [1]		
Physics (PH) [1]		
General Requirements		
PY 101	Introduction to Psychology [2]	3
or PY 201	Honors Introduction to Psychology	
PY 212	Developmental Psychology [2]	3
PY 215	Research Literacy in Psychology	2
PY 216	Elementary Statistical Methods	4
PY 218	Abnormal Psychology	3
PY 253	Brain, Mind and Behavior	3
PY 315	Methods in Psychological Research	4
Advanced Coursework		
Select three of the following:		9
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	
Honors Courses		
Complete 5 hours of honors coursework:		5
PY 399 & PY 499	Psychology Honors Seminar and Psychology Honors Thesis [3]	
Psychology Electives and Practicum		
Select 3 courses at the 400 level not otherwise required, in addition to completing 6 hours of practicum coursework. [4]		15
PY 398	Research Practicum in Psychology	
PY 396	Teaching Practicum in Psychology	
or PY 397	Community-Based Practicum in Psychology	
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 or PY 397 Community-Based 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:

Requirements		Hours
CS 101	Fluency With Information Technology	3
HY 121	The United States Since 1877	3
EC 110	Economics and Society	3
or EC 211	Principles of Macroeconomics	
PY 101	Introduction to Psychology	3
PSC 101	Introduction to American Government	3
or PSC 221	American State and Local Government	
SOC 100	Introduction to Sociology	3
ANTH 101	Introduction to Cultural Anthropology	3
Approved minority studies course		3

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

Requirements		Hours
Required Social Work Courses		
SW 100	Introduction to Social Work	3
SW 200	Professional Writing for Human Service Professionals	2
SW 203	Social Welfare History	3
SW 222	Values Laboratory/SL	4
SW 302	Social Welfare Policy Analysis	3
SW 313	Human Behavior and The Social Environment I	3
SW 314	Human Behavior in the Social Environment II	3
SW 320	Introduction to Research Methods	3
SW 321	Statistics for Social Work Research	3
SW 322	Social Work Practice I	4
SW 422	Social Work Practice II	3
SW 490	Practicum in Social Work/SL	9
SW 494	Practicum Seminar	3
Social Work Elective		
Select three hours from SW courses		3
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

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 110	3	HY 121	3
HY 120	3	SOC 100	3
PY 101	3	SW 100	3
Core Curriculum Area II: Fine Art[1]	3	Core Curriculum Area II: Humanities	3
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours
SW 200	2	CS 101	3
SW 203	3	SW 222	4
BY 101 & BY 102	4	ANTH 101	3
EC 110 or 211	3	Core Curriculum Area III: Natural Science with Laboratory	4
Core Curriculum Area II: Literature[2]	3	Core Curriculum Area II: Humanities or Fine Art	3
	15		**17**

Junior

First Term	Hours	Second Term	Hours
PSC 101 or 221	3	SW 302	3
General Electives	9	SW 313	3
Minority Studies[3]	3	SW 322	4
		SW 320	3
		General Elective	3
	15		**16**

Senior

First Term	Hours	Second Term	Hours
SW 314	3	SW 490	9
SW 321 or SOC 410	3-4	SW 494	3
SW 422	3		
Social Work (SW) Elective	3		

General Elective	3	
	15-16	**12**

Total credit hours: 120-121

1 Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.

2 Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.

3 Select One: SW 207, SOC 220, SOC 250, SOC 490 (must take 3 times), or WS 100

Minor Requirements for Social Work

Requirements		Hours
Required Social Work		
SW 100	Introduction to Social Work	3
Social Work Electives		15
Select fifteen hours from SW courses		
Total Hours		18

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

Requirements		Hours
General Requirements		
SOC 100	Introduction to Sociology	3
SOC 410	Social Statistics	4
SOC 489	The Research Experience	4
Theory Requirement		
Select one of the following:		3
SOC 405	Mind, Self and Society	
SOC 407	Development of Sociological Theory	
SOC 415	Social Stratification	
Sociology Electives		
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.		21
Total Hours		35

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 489must 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

Requirements		Hours
General Requirements		
SOC 100	Introduction to Sociology	3
SOC 120	Introduction to Social Psychology	3
SOC 410	Social Statistics	4
SOC 489	The Research Experience	4
PY 101	Introduction to Psychology	3
PY 372	Social Psychology	3
Theory Requirement		
Select one of the following:		3
SOC 405	Mind, Self and Society	
SOC 407	Development of Sociological Theory	
SOC 415	Social Stratification	
Psychology Requirements		
Select one of the following:		3
PY 212	Developmental Psychology	
PY 218	Abnormal Psychology	
PY 319	Psychopathology and Culture	
Sociology Electives		
Select three of the following courses, with at least two at the 300-level or higher.		9
SOC 130	Intimate Relationships and the Family	
SOC 135	Human Sexuality	
SOC 220	Sociology of Sex and Gender	
SOC 240	Family Conflict and Violence	
SOC 280	Introduction to Medical Sociology	
SOC 283	The Sociology of Mental Health	
SOC 285	Introduction to Aging	
SOC 323	Social Structure and Personality	
SOC 340	Deviant Behavior	
SOC 383	Drugs and Society	
SOC 385	Social Psychology of Aging	
SOC 445	Biology and Society	
SOC 455	Minority Aging	
SOC 456	Death and Dying	
SOC 457	Family Relations over the Life Course	
SOC 469	Sociology of Aging	
SOC 480	Sociology of Health and Illness	
SOC 482	Gender and Health	
Total Hours		35

Proposed Program of Study for a Major in Sociology

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 110	3	Core Curriculum Area IV: History[1]	3
SOC 100	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area IV: History[1]	3	Core Curirculum Area IV: Social and Behavioral Science	3
Core Curriculum Area II: Fine Art[2]	3	General Elective	3
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours
SOC 120	3	Socology (SOC) 200-level and above	3
Sociology (SOC) 200-level and above	3	Core Curriculum Area III: Natural Science with Lab	4
Core Curriculum Area II: Literature[3]	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area III: Natural Science with Lab	4	Minor	3
Minor	3	General Elective	3
	16		**16**

Junior

First Term	Hours	Second Term	Hours
Social Statistics or Social Theory[4]	4	Social Statistics or Social Theory[4]	4
Sociology (SOC) 200-level and above	3	Sociology (SOC) 300-level and above	3
Minor	3	Minor	3
General Elective	6	General Electives	6
	16		**16**

Senior

First Term	Hours	Second Term	Hours
SOC 489	4	Sociology (SOC) 300-level and above	6
Sociology (SOC) 300-level and above	3	Sociology (SOC) Elective	3
Minor	3	Minor	3
General Electives	6	General Elective	3
	16		**15**

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

Proposed Program of Study for a Major in Social Psychology

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 110	3	PY 101	3
SOC 100	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area IV: History[1]	3	Core Curriculum Area IV: History[1]	3

Core Curriculum Area II: Fine Art[2]	3	General Elective	3
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours
SOC 120	3	PY 372	3
Core Curriculum Area II: Literature[3]	3	Core Curriculum Area II: Humanities	3
Core Curriculum Area III: Natural Science with Laboratory	4	Core Curriculum Area III: Natural Sciences with Laboratory	4
Minor	3	Minor	3
General Elective	3	General Elective	3
	16		**16**

Junior

First Term	Hours	Second Term	Hours
Social Statistics or Social Theory[4]	4	Social Statistics or Social Theory[4]	4
Sociology (SOC) 300-level and above	3	Sociology (SOC) 300-level	3
Minor	3	Minor	3
General Elective	6	General Elective	6
	16		**16**

Senior

First Term	Hours	Second Term	Hours
SOC 489	4	Social Psychology Major (Select One)	3
Sociology (SOC) Elective	3	PY 212	
Minor	3	PY 218	
General Electives	6	PY 319	
		Minor	3
		General Electives	6
	16		**12**

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		Hours
Introductory Sociology Courses		
SOC 100	Introduction to Sociology [1]	3
Sociology Electives		15
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

Requirements		Hours
Required Courses		
SOC 280	Introduction to Medical Sociology	3
SOC 283	The Sociology of Mental Health	3
Social Diversity and Inequality		
Select two of the following:		6
SOC 220	Sociology of Sex and Gender	
SOC 250	Race and Ethnic Relations	
SOC 275	Urban Sociology	
SOC 282	Minority Health	
SOC 385	Social Psychology of Aging	
SOC 415	Social Stratification	
Health-Related Issues and Problems		
Select one of the following:		3
SOC 240	Family Conflict and Violence	
SOC 275	Urban Sociology	
SOC 282	Minority Health	
SOC 370	Population Problems	
SOC 383	Drugs and Society	
SOC 456	Death and Dying	
SOC 472	Homelessness: Causes and Consequences	
SOC 480	Sociology of Health and Illness	
SOC 482	Gender and Health	
Elective		
Select one of the following:		3
ANTH 435	Ethnomedicine and Ethnopsychiatry	
PY 218	Abnormal Psychology	
PY 305	Medical Psychology	
SOC 135	Human Sexuality	
SOC 240	Family Conflict and Violence	
SOC 282	Minority Health	
SOC 370	Population Problems	
SOC 383	Drugs and Society	
SOC 445	Biology and Society	
SOC 455	Minority Aging	
SOC 456	Death and Dying	
SOC 472	Homelessness: Causes and Consequences	

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, Women 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

Requirements		Hours
Introductory Sociology Courses		
SOC 100	Introduction to Sociology [1]	3
SOC 120	Introduction to Social Psychology	3
Social Psychology Electives		
Select four of the following courses, with at least three at the 300-level or above:		12
PY 212	Developmental Psychology [2]	
PY 218	Abnormal Psychology	
PY 319	Psychopathology and Culture	
PY 372	Social Psychology	
SOC 130	Intimate Relationships and the Family	
SOC 135	Human Sexuality	
SOC 220	Sociology of Sex and Gender	
SOC 240	Family Conflict and Violence	
SOC 280	Introduction to Medical Sociology	
SOC 283	The Sociology of Mental Health	
SOC 285	Introduction to Aging	
SOC 323	Social Structure and Personality	
SOC 340	Deviant Behavior	
SOC 383	Drugs and Society	
SOC 385	Social Psychology of Aging	
SOC 405	Mind, Self and Society	
SOC 445	Biology and Society	
SOC 456	Death and Dying	
SOC 457	Family Relations over the Life Course	
SOC 469	Sociology of Aging	
SOC 480	Sociology of Health and Illness	
SOC 482	Gender and Health	
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

Honors Program in Social Psychology

Goal

The Social Psychology Honors Program is designed to help prepare outstanding undergraduate majors for graduate study in Social Psychology or a career in medical Social Psychology. 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 Social Psychology Honors Program requires the following:

- Completion of the required Social Psychology 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.
- Junior or senior level standing (admittance to Honors Program must take place before August 1).
- Cumulative GPA in Social Psychology courses of 3.3 or above.

Requirements

The following is required to graduate with honors in the Social Psychology Honors Program:

- Completion of the required Social Psychology 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 Social Psychology 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 Social Psychology."

Contact

For additional information and/or admission to the Social Psychology Honors Program, contact:

The Director of Undergraduate Programs
Department of Sociology
460H Herritage Hall Bldg
Birmingham, AL 35294-1152

Telephone (205) 934-3307

Department of Theatre

Chair: Mr. Kelly Allison, MFA

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

Requirements		Hours
Required Courses		
THR 124	Theatre Technology: Scenery and Lighting	3
THR 125	Theatre Technology: Costumes and Makeup	3
THR 154	Beginning Acting	3
THR 160	Theatre Cornerstone	1
THR 210	Introduction to Theatrical Design	3
THR 235	Analysis of Dramatic Literature	3
THR 365	Directing I	3
THR 481	Theatre History to 1860	3
THR 482	Theatre History from 1860 to Present	3
THR 491	Theatre Capstone	2
Theatre Design		
Select three hours from the following:		3

THR 323	Lighting Design	
THR 325	Theatre Sound Design and Technology	
THR 326	Scenic Design	
THR 327	Costume Design	
Theatre Performance		
Select 6 hours from the following:		6
THR 202	Voice and Movement for the Actor I	
THR 203	Voice and Movement for the Actor II	
THR 254	Intermediate Acting	
THR 258	Musical Theatre Performance I	
THR 318	Modern Stage Combat	
THR 355	Advanced Acting	
THR 377	Acting for the Camera	
THR 465	Directing II	
Theatre Writing		
Select three hours from the following:		3
THR 200	Plays on Film	
THR 215	Playwriting I	
THR 216	Screenwriting I	
THR 300	Exploring the African-American Creative Experience	
THR 350	Costume History and Period Style for the Theatre	
Theatre Practicum		
Complete 3 hours [1]		3
THR 204	Beginning Production Practicum	
THR 205	Beginning Performance Practicum	
Theatre Electives		
Select six hours from the following:		6
THR 105	Introduction to Dance [2]	
THR 106	Jazz I	
THR 107	Tap I	
THR 200	Plays on Film [2]	
THR 202	Voice and Movement for the Actor I	
THR 203	Voice and Movement for the Actor II	
THR 204	Beginning Production Practicum	
THR 206	Jazz II	
THR 207	Tap II	
THR 215	Playwriting I	
THR 216	Screenwriting I	
THR 226	Drawing and Rendering for the Theatre	
THR 230	Stage Management	
THR 254	Intermediate Acting	
THR 300	Exploring the African-American Creative Experience	
THR 315	Playwriting II	
THR 316	Screenwriting II	
THR 318	Modern Stage Combat	
THR 323	Lighting Design	
THR 325	Theatre Sound Design and Technology	
THR 326	Scenic Design	
THR 327	Costume Design	
THR 350	Costume History and Period Style for the Theatre	
THR 355	Advanced Acting	
THR 360	Theatre Internship	
THR 377	Acting for the Camera	
THR 404	Advanced Production Practicum	
THR 405	Advanced Performance Practicum	
THR 455	Advanced Studio in Performance	
THR 462	Special Workshop	
THR 465	Directing II	
THR 470	Individual Project in Design and Production	
THR 471	Advanced Studio in Scenery	
THR 472	Advanced Studio in Costumes	
THR 473	Advanced Studio in Lighting	
THR 474	Advanced Studio in Audio	
THR 496	Honors Project	
THR 499	Individual Studies	
Total Hours		48

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 Design & Technology Concentration

Requirements		Hours
Required Courses		
THR 124	Theatre Technology: Scenery and Lighting	3
THR 125	Theatre Technology: Costumes and Makeup	3
THR 154	Beginning Acting	3
THR 160	Theatre Cornerstone	1
THR 210	Introduction to Theatrical Design	3
THR 235	Analysis of Dramatic Literature	3
THR 365	Directing I	3
THR 481	Theatre History to 1860	3
THR 482	Theatre History from 1860 to Present	3
THR 491	Theatre Capstone	2
Theatre Design		
THR 323	Lighting Design	3
THR 326	Scenic Design	3
THR 327	Costume Design	3
Theatre Practicum [1]		
Complete three hours:		3
THR 204	Beginning Production Practicum	
THR 205	Beginning Performance Practicum	
Design & Technology Requirements		
THR 226	Drawing and Rendering for the Theatre	3
THR 350	Costume History and Period Style for the Theatre	3
Design & Technology Electives		
Select six hours from the following:		6
THR 325	Theatre Sound Design and Technology	
THR 470	Individual Project in Design and Production	
THR 471	Advanced Studio in Scenery	
THR 472	Advanced Studio in Costumes	
THR 473	Advanced Studio in Lighting	
THR 474	Advanced Studio in Audio	
Total Hours		51

1. One hour may be THR 205 performance, two hours must be THR 204 technical .

Major Requirements for Theatre with Pre-Professional Performance Concentration

Requirements		Hours
Required Courses		
THR 124	Theatre Technology: Scenery and Lighting	3
THR 125	Theatre Technology: Costumes and Makeup	3
THR 154	Beginning Acting	3
THR 160	Theatre Cornerstone	1
THR 210	Introduction to Theatrical Design	3
THR 235	Analysis of Dramatic Literature	3
THR 365	Directing I	3
THR 481	Theatre History to 1860	3
THR 482	Theatre History from 1860 to Present	3
THR 491	Theatre Capstone	2
Theatre Practicum [1]		
Complete three hours:		3
THR 204	Beginning Production Practicum	
THR 205	Beginning Performance Practicum	
Performance Requirements		
THR 202	Voice and Movement for the Actor I	3
THR 203	Voice and Movement for the Actor II	3
THR 254	Intermediate Acting	3
THR 355	Advanced Acting	3
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

First Term	Hours	Second Term	Hours
THR 160	1	THR 210	3
THR 154	3	THR 124 or 125	3
THR 124 or 125	3		
	7		**6**

Sophomore

First Term	Hours	Second Term	Hours
THR 210 or 235	3	THR 204	1-2
THR 204	1	Performance Component[1]	3
Performance Component[1]	3	Writing Component[2]	3
	7		**7-8**

Junior

First Term	Hours	Second Term	Hours
THR 365	3	THR 204	1-2
THR 204	1	THR 365 (or Design Component)[4]	3
Theatre History [3]	3		
	7		**4-5**

Senior

First Term	Hours	Second Term	Hours
Theatre History [3]	3	THR 491	2
Theatre Elective[5]	3	Theatre Elective[5]	3
	6		**5**

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

First Term	Hours	Second Term	Hours
THR 160	1	THR 124 or 125	3
THR 124 or 125	3	THR 210 or 235	3
THR 154	3		
	7		**6**

Sophomore

First Term	Hours	Second Term	Hours
THR 204	1-2	THR 204	1-2
THR 226	3	THR 326 or 327	3
THR 210 or 235	3		
	7-8		**4-5**

Junior

First Term	Hours	Second Term	Hours
THR 323	3	THR 204	1-2
THR 327	3	THR 326 or 327	3
Theatre History [1]	3	Theatre History[1]	3
	9		**7-8**

Senior

First Term	Hours	Second Term	Hours
Theatre Elective[2]	3	THR 365	3
		THR 491	2
		Theatre Elective[2]	3
	3		**8**

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]	3
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

Requirements		**Hours**
Required Theatre		
THR 154	Beginning Acting	3
THR 210	Introduction to Theatrical Design	3
THR 235	Analysis of Dramatic Literature	3
Theatre Technology		
THR 124	Theatre Technology: Scenery and Lighting	3
THR 125	Theatre Technology: Costumes and Makeup	3
Theatre History		
Select one of the following:		3
THR 481	Theatre History to 1860	
THR 482	Theatre History from 1860 to Present	
Theatre Electives		
Select six hours from the following:		6
THR 106	Jazz I	
THR 107	Tap I	
THR 202	Voice and Movement for the Actor I	
THR 203	Voice and Movement for the Actor II	
THR 204	Beginning Production Practicum	
THR 206	Jazz II	
THR 207	Tap II	
THR 215	Playwriting I	
THR 216	Screenwriting I	
THR 226	Drawing and Rendering for the Theatre	
THR 230	Stage Management	
THR 254	Intermediate Acting	
THR 300	Exploring the African-American Creative Experience	
THR 315	Playwriting II	
THR 316	Screenwriting II	
THR 318	Modern Stage Combat	
THR 323	Lighting Design	
THR 325	Theatre Sound Design and Technology	
THR 326	Scenic Design	
THR 327	Costume Design	
THR 350	Costume History and Period Style for the Theatre	
THR 355	Advanced Acting	
THR 365	Directing I	
THR 377	Acting for the Camera	
THR 404	Advanced Production Practicum	
THR 420	Teaching Theatre in the Secondary School	
THR 455	Advanced Studio in Performance	
THR 462	Special Workshop	
THR 465	Directing II	
THR 470	Individual Project in Design and Production	
THR 471	Advanced Studio in Scenery	
THR 472	Advanced Studio in Costumes	
THR 473	Advanced Studio in Lighting	
THR 474	Advanced Studio in Audio	
THR 481	Theatre History to 1860	
THR 482	Theatre History from 1860 to Present	
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:

Requirements		**Hours**
THR 124	Theatre Technology: Scenery and Lighting	3
THR 125	Theatre Technology: Costumes and Makeup	3
THR 154	Beginning Acting	3
THR 210	Introduction to Theatrical Design	3
THR 235	Analysis of Dramatic Literature	3

- 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:

o Priority registration
o First-year honors residence life communities
o Enhanced academic advising
o Exclusive access to Honors facilities for studying and socializing
o Unique and challenging curricular and extracurricular activities
o 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:
HHB 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...

- Synthesize connections among experiences outside of the formal classroom to deepen their understanding of fields of study and to broaden their own points of view.
- Draw connections by combining examples, facts, or theories from more than one field of study or perspective.
- 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/.

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

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
EL 101 or DCS 101[1]	3	HC 101	1
EL 399	0	EL 199	0
		EL 299[2]	0
		EL 399	0
	3		**1**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
EL 299[2]	0	EL 199	0
EL 399	0	EL 299[2]	0
		EL 399	0
	0		**0**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
EL 299[2]	0	EL 199	0

EL 399	0	EL 299[2]	0
		EL 399	0
	0		**0**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
EL 299[2]	0	EL 199	0
EL 399	0	EL 299[2]	0
		EL 399	0
		EL 499	0
	0		**0**

Total credit hours: 4

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.

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 study at the Master's or Doctoral level as well as for 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.
- 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.

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

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:

Requirements		Hours
Seminars		
STH 199	Introduction to the Scientific Process	2
STH 299	Interdisciplinary Seminar	3
Research Methods/Applications		
STH 201	Research Approaches I	3
STH 202	Research Approaches II [a]	3
Scientific Communication/Technical Writing		
EH 202	English Composition II for Science and Technology Honors Student	3
Statistics		
STH 301	Statistics and Design Overview [b]	3
Honors Thesis Preparation		
STH 395	Honors Proposal Preparation	1
STH 400	Honors Thesis Preparation	1
Honors Research		
Minimum number of research hours required		8
STH 398	Undergraduate Research [c]	
STH 399	Honors Thesis Research [c]	
Leadership/Innovation		
STH 150	Skills for Leadership and Innovation	1
STH 151	Problem Analysis and Project Planning	1
STH 250	PrimeTime Leadership	1
Total Hours		30

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

Requirements		Hours
STH 270	Perspectives on Innovation	3
STH 302	Statistics/Design Overview Lab	1
STH 310	Communicating Science	1-3
STH 350	Next Level Leadership	1-3
STH 396	Internships/Comm Projects/SL	1-3
STH 397	Independent Study	1-3

Proposed Program of Study for Science and Technology Honors Students

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
STH 199	2	STH 201	3
STH 150	1	STH 151	1
EH 202 (or EH 101/102)[a, b]	3		
	6		**4**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
STH 299	3	STH 202	3
STH 250	1	STH 301	3
	4		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
STH 398[c]	2	STH 395	1
		STH 398[c]	2
	2		**3**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
STH 399[c]	2	STH 400	1
		STH 399[c]	2
	2		**3**

Total credit hours: 30

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-Abroms 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," "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
- The fall film series
- Workshops
- Field trips

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."

Senior	
Second Term	**Hours**
Non-honors: 5 courses in major/minor/pre-professional courses	15
	15

Total credit hours: 15

Senior	
First Term	**Hours**
One Honors Seminar for 3 credit hours	3
Non-honors: 4 courses in major/minor/pre-professional courses	12
	15

Total credit hours: 15

Junior

First Term	Hours	Second Term	Hours
Honors: 1 honors seminar for 3 credit hours	3	One Honors Seminar for 3 credit hours	3
Non-Honors: 4 courses in major/minor/pre-professional courses	12	Non-honors: 4 courses in major/minor/pre-professional courses	12
	15		**15**

Total credit hours: 30

Sophomore

First Term	Hours	Second Term	Hours
HON 201		One Honors Seminar for 3 credit hours	3
Select 3 of the following-selection is dependent on fall offering	9	Non-honors: 4 courses in major/pre-professional courses	12
Select two (non-honors) courses in major/pre-professional courses	6		
HON 203			
HON 205			
HON 202			
HON 204			
HON 206			
HON 207			
HON 208			
HON 209			
HON 211			
HON 251			
HON 252			
HON 254			
HON 255			
HON 256			
HON 257			
HON 258			
HON 259			
HON 261			
HON 262			
	15		**15**

Total credit hours: 30

Freshman

First Term	Hours	Second Term	Hours
select 3 of the following-selection is dependent on fall offering	9	One Honors Seminar for 3 credit hours	3
select two (non-honors) courses in major/pre-professional courses	6	Non-honors: 4 courses in major/pre-professional	12
HON 101			
HON 103			
HON 105			
HON 107			
HON 109			
HON 111			
HON 151			
HON 154			
HON 155			
HON 102			
HON 104			
HON 108			
HON 152			
HON 157			
HON 159			
HON 162			
HON 106			
HON 156			
HON 161			
	15		**15**

Total credit hours: 30

Four Year Plan

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:

Certification Area & Grade Levels	Undergraduate Major	Teacher Education Department
Biology (6-12)	Secondary Education/ Biology	Curriculum & Instruction
Chemistry (6-12)	Secondary Education/ Chemistry	Curriculum & Instruction
Early Childhood (P-3) and Elementary Education (K-6)	Early Childhood & Elementary Education	Curriculum & Instruction
English Language Arts (6-12)	Secondary Education	Curriculum & Instruction
General Science (6-12)	Secondary Education/ General Science	Curriculum & Instruction
General Social Science (6-12)	Secondary Education/ General Social Science	Curriculum & Instruction
Mathematics (4-8)	Mathematics*	Curriculum & Instruction
Mathematics (6-12)	Secondary Education/ Mathematics	Curriculum & Instruction
Music - Instrumental (P-12)	Music*	Curriculum & Instruction
Music - Vocal/Choir (P-12)	Music*	Curriculum & Instruction
Kinesiology (P-12)	Kinesiology (Physical Education)	Human Studies
Physics (6-12)	Secondary Education/ Physics	Curriculum & Instruction

* 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:

Program Area/ Concentration	Undergraduate Major	Department
Community Health	Health Education	Human Studies
Exercise Science	Kinesiology	Human Studies
Fitness Leadership	Kinesiology	Human Studies
Human Services	Health Education	Human Studies
2+2 Early Childhood Non-Certification	Early Childhood Education	Curriculum and Instruction
4 Year Early Childhood Non-Certification	Early Childhood Education	Curriculum and Instruction

School of Education Minors

The School of Education offers the following minors:

Minor	Program	Department
Athletic Coaching	Kinesiology	Human Studies
Exercise Science	Kinesiology	Human Studies
Health Education	Health Education	Human Studies

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/soestudentservices/.

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 wil 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 300Organization and Administration of Kinesiology
- KIN 305Motor 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 2.75 in all Professional Studies courses.
6. Minimum GPA of 3.00 in all Teaching Field courses.
7. Completion of all methods courses (EDR 440, EDR 443, EEC 302, EEC 402, EEC 405, EEC 406, EEC 412, EEC 413, EEC 414, EEC 415, EEC 494, EPR 410 , and HPE 301).
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).
10. Passing score on Praxis II: Early Childhood Content Knowledge (Code 5022).
11. Passing score on Praxis II: Teaching Reading (Code 5204).
12. Passing score on Praxis II: Principles of Learning and Teaching K-6 (Code 5622).
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).
9. Passing score on Praxis II: Physical Education P-12 (Code 5091).
10. Passing score on Praxis II: Principles of Learning and Teaching K-6 (Code 5622) **OR** Praxis II: Principles of Learning and Teaching 7-12 (Code 5624).
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.
10. Passing score on Praxis II: Principles of Learning and Teaching 7-12 (Code 5624).
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.

13. 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/soestudentservices, 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 (www.alsde.edu (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) [1]

Refer to Core Curriculum (p. 294)

1 Core Curriculum Area IV: PY 101 Introduction to Psychology & SOC 100 Introduction to Sociology preferred.

Requirements		Hours
Early Childhood Courses (Non-Certification) (Common to all in Major)		
ECY 300	Survey of Special Education	3
EEC 300	Child Development/Family Relationships	4
EEC 405	Children's Literature in Early Childhood and Elementary Education	3
EEC 415	Learning Environments	3
EPR 363	Foundations of Education II: Psychological	3
EDF 362	Foundations of Education I: Social, Historical, Philosophical	3
HPE 301	Teaching Health Education and Kinesiology in Elementary Schools	3
Early Childhood Non-Certification Concentration (Track)		
ECE 320	Introduction to Curriculum and Teaching	3
ECE 347	Language Experiences for the Preprimary Child	3
ECE 390	Practicum in Early Childhood Education	3
ECE 410	Organize Programs: Young Children	3
ECE 445	Young Children: Math/Science/Social Studies	6
ECE 446	Communication Arts/Reading: Young Child	6
ECE 448	Infant/Toddler Development	3
ECE 449	Education Environment: Infant/Parent	3
ECE 460	Current Topics in Education	3
ECE 490	Student Teaching in Early Childhood Education I	9
ECE 492	Individual Curriculum Projects	3
ECE 494	Field Work in Early Childhood Education	3
EEC 302	Expressive Arts (P-6) (or ECE)	3
KIN 305	Motor Development	3
Total Hours		76

Early Childhood and Elementary Education

The early childhood/elementary education program is designed as a double major program. Students successfully completing the program and all requirements outlined in previous sections will receive a baccalaureate degree and be eligible for Alabama "Class B" professional teaching certificates in early childhood education (grades P-3) and elementary education (grades K-6).

Professional preparation includes courses in humanistic and behavioral studies, early childhood education, elementary education, curriculum and teaching, evaluation of teaching and learning, extensive pre-internship field experiences in P-6 settings, and an internship. Students must work closely with their faculty advisor for appropriate selection of courses in each area of general and professional studies.

Refer to Core Curriculum (p. 294)

Lower Division Requirements for Early Childhood & Elementary Education

Requirements		Hours
Additional Laboratory Science [1]		
Select one of the following:		4
AST 101 & AST 111	Astronomy of the Universe and Astronomy of the Universe Laboratory	
AST 102 & AST 112	Astronomy of Stellar Systems and Astronomy of Stellar Systems Laboratory	
AST 103 & AST 113	Astronomy of the Solar System and Astronomy of the Solar Systems Laboratory	
AST 105 & AST 115	Extraterrestrial Life and Extraterrestrial Life Laboratory	
BY 101 & BY 102	Topics in Contemporary Biology and Topics Contemporary Biology Laboratory	
BY 111 & BY 112	Extended Topics in Contemporary Biology and Ext Topics Contemporary Biology Laboratory	
BY 123	Introductory Biology I	
BY 124	Introductory Biology II	
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory	
CH 107 & CH 108	Introductory Chemistry II and Introductory Chemistry II Laboratory	
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	
ENV 108 & ENV 109	Human Population and the Earth s Environment and Laboratory in Environmental Science	
ES 101 & ES 102	Physical Geology and Physical Geology Laboratory	
ES 103 & ES 104	History of the Earth and History of the Earth Laboratory	
PH 201 & 201L	College Physics I and College Physics Laboratory I	
PH 202 & 202L	College Physics II and College Physics Laboratory II	
PH 221 & 221L	General Physics I and General Physics Laboratory I	
PH 222 & 222L	General Physics II and General Physics Laboratory II	
PHS 101	Physical Science	
Other Science with Lab		
Math Requirements		
MA 313	Patterns, Functions and Algebraic Reasoning	3
Select one 100 Level or higher math course not used above [3]		3
Select two additional math courses at 100-level or higher (MA 314 and MA 316 preferred)		6
Psychology		
PY 101	Introduction to Psychology [2]	3
Total Hours		19

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

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
EEC 300	Child Development/Family Relationships	4
EEC 301	Introduction to P-6 Education	3
EEC 440	Workshop in Education	3
Teaching Field Courses		
EEC 302	Expressive Arts (P-6)	1
EEC 402	Primary Math Methods [2]	4
EEC 405	Children's Literature in Early Childhood and Elementary Education [2]	3
EEC 406	Language Arts in Early Childhood and Elementary Education [2]	3
EEC 412	Math in Early Childhood and Elementary Education [2]	3
EEC 413	Science in Early Childhood and Elementary Education [2]	3
EEC 414	Social Studies in Early Childhood and Elementary Education [2]	3
EEC 415	Learning Environments	3
HPE 301	Teaching Health Education and Kinesiology in Elementary Schools	3
EPR 410	Measurement and Evaluation in Education	3
EDR 440	Developmental Reading I [2]	3
EDR 443	Developmental Reading II [2]	3
EEC 494	Field Work in Early Childhood and Elementary Education	3-4
Internship		
EEC 490	Internship in P-3/3-6	9
EEC 491	Internship Seminar in P-6 Education	3
Total Hours		74-75

1 Required for admission to TEP

2 Must be admitted to TEP

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

Requirements		Hours
Psychology [1]		
PY 101	Introduction to Psychology	3
Additional Math [2]		
MA 125	Calculus I	4
Chemistry Requirements		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
CH 235 & CH 236	Organic Chemistry I and Organic Chemistry I Laboratory	4
CH 237 & CH 238	Organic Chemistry II and Organic Chemistry II Laboratory	4
Physics Requirements		
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	
Total Hours		31

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

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]		
EDR 442	Reading in Content Areas	3
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
Internship		
EHS 489	Internship Seminar in Secondary Education	3
EHS 490	Secondary School Student Teaching I	6
Total Hours		41

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

Requirements		Hours
Psychology [1]		
PY 101	Introduction to Psychology	3
Additional Math [2]		
MA 125	Calculus I	4
Chemistry Requirements		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
CH 235 & CH 236	Organic Chemistry I and Organic Chemistry I Laboratory	4
CH 237 & CH 238	Organic Chemistry II and Organic Chemistry II Laboratory	4
Physics Requirements		
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	
Physical Geology		
ES 101 & ES 102	Physical Geology and Physical Geology Laboratory	4
Astronomy		
Select one of the following:		4
AST 101 & AST 111	Astronomy of the Universe and Astronomy of the Universe Laboratory	
AST 102 & AST 112	Astronomy of Stellar Systems and Astronomy of Stellar Systems Laboratory	

AST 103 & AST 113	Astronomy of the Solar System and Astronomy of the Solar Systems Laboratory	
Total Hours		39

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

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.

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
BY 124	Introductory Biology II	4
Physics Requirements		
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	
Total Hours		27

1 If not taken in Core Curriculum Area IV

2 If not taken in Core Curriculum Area III

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 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

Requirements		Hours
Psychology [1]		
PY 101	Introduction to Psychology	3
Mass Communication		
CMST 103	History of Mass Media	3
CMST 210	Newswriting and Reporting I	3
Total Hours		9

[1] If not taken in Core Curriculum Area IV

Major Requirements for Secondary Education

Requirements		Hours
Foundations & Professional Studies		
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 [1]		
EHS 456	Classroom Management in Secondary Schools	3
EHS 466	Language Arts Methods	3
EHS 497	Special Problems in Education	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] Admission to TEP required

Major Requirements for English

Requirements		Hours
EH 301	Reading, Writing, and Research for English Majors	3
Select one of the following:		3
EH 217	World Literature I: Before 1660	
EH 218	World Literature II: 1660-Present	
Select one of the following:		3
EH 223	American Literature I: Before 1865	
EH 224	American Literature II: 1865-Present	
Select one of the following:		3
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 417	Workshop in Writing for Young People	
EH 418	Workshop in Writing for Young People	
EH 429	Creative Writing: Special Topics	
EH 435	Teaching Creative Writing	
Select one of the following:		3
EH 401	Tutoring Writing	
EH 402	Writing in Popular Periodicals	
EH 403	Business Writing	
EH 404	Technical Writing	
EH 457	Writing and Medicine	
EH 430	Professional Writing: Special Topics	
EH 433	Academic Writing	
Select one of the following:		3
EH 419	Young Adult Literature	
EDR 441	Literature for Adolescents	
EH 476	Shakespeare	3
Select one of the following:		3
EH 469	Medieval Culture: Literature and Society	
EH 470	Arthurian Legend	
EH 471	Beowulf in Context	
EH 473	Chaucer: Pilgrimage to Canterbury	
EH 474	English Renaissance Drama (Excluding Shakespeare)	
EH 475	English Renaissance Poetry and Prose	
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 414	Modern British and European Drama	
EH 488	British Novel: The Modern Age	
EH 489	James Joyce	
Select one of the following:		3
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 416	Modern American Poetry	
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	
Select one of the following:		3
EH 366	African American Literature, 1954-Present	
EH 468	The Harlem Renaissance	
EH 365	African American Literature, 1746-1954	
EH 366	African American Literature, 1954-Present	
EH 420	World Literature	
EH 421	World Literature	
EH 422	African Literature	
EH 423	African Women's Literature	
EH 424	African-American Special Topics	
EH 445	Special Topics in African American Literature	
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	
Select one of the following:		3
EH 350	Introduction to Linguistics	
EH 351	Structure of English	
EH 452	Grammar and Usage for English Teachers	3
Total Hours		36

Refer to Core Curriculum (p. 294)

Lower Division Requirements for High School Education/French Double Major

Requirements		Hours
Psychology [1]		
PY 101	Introduction to Psychology	3
French		
FR 101	Introductory French I	4
FR 102	Introductory French II	4
Total Hours		11

[1] If not taken in Core Curriculum Area IV

Major Requirements for High School Education

Requirements		Hours
Foundations & Professional Studies		
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
EDT 300	Teaching and Technology	3
Secondary Education Courses [1]		
EHS 401	Secondary Education Curriculum and Methods	3
EHS 456	Classroom Management in Secondary Schools	3
EFL 485	Foreign/Sec Language Methods	4
EPR 411	Measurement and Evaluation in Education	3
EDR 442	Reading in Content Areas	3
Internship		
EFL 498	Student Teaching in Foreign Language N-12	9
EFL 499	Internship in Foreign Language Education Seminar	1
Total Hours		43

[1] Admission to TEP required

Major Requirements for French

Requirements		Hours
Foreign Cultures [1]		
FLL 120	Foreign Cultures	3
Additional Introductory Foreign Language Course		
Select one of the following:		3
ARA 101	Introductory Arabic I	
CHI 101	Introductory Chinese I	
JPA 101	Introductory Japanese I	
SPA 101	Introductory Spanish I /QL	
GN 101	Introductory German I	
ITL 101	Introductory Italian I	
Literature		
Select one of the following:		3
FLL 220	Foreign Literatures in English Translation	
EH 218	World Literature II: 1660-Present	
Linguistics		
LING 350	Introduction to Linguistics	3
Foreign Language Seminar		
FLL 485	Foreign Language Capstone Seminar	3
Study Abroad/Foreign Language Internship		
Select six hours of the following:		6
FR 290	Study Abroad	
FR 390	Study Abroad	
FR 490	Study Abroad	
FLL 333	Foreign Language Internship/SL	
French		
FR 201	Intermediate French I	3
FR 202	Intermediate French II	3
FR 210	Intermediate French Culture	3
FR 307	Advanced Grammar and Composition I	3
FR 308	Advanced Grammar and Composition II	3
FR 310	Advanced French Culture	3
FR 311	Advanced Survey of French Literature	3
French Electives 200-level		
See your Academic Advisor		3
French Electives 400-level		
Select 3 courses from UAB. See your academic advisor.		9
Total Hours		54

[1] If not taken in Core Curriculum Area II

Refer to Core Curriculum (p. 294)

Lower Division Requirements for High School Education/Spanish Double Major

Requirements		Hours
Psychology [1]		
PY 101	Introduction to Psychology	3
Spanish		
SPA 101	Introductory Spanish I /QL	4
SPA 102	Introductory Spanish II	4
Total Hours		11

[1] If not taken in Area IV

Major Requirements for High School Education

Requirements		Hours
Foundations & Professional Studies		
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
EDT 300	Teaching and Technology	3
Secondary Education Courses [1]		
EHS 401	Secondary Education Curriculum and Methods	3
EHS 456	Classroom Management in Secondary Schools	3
EFL 485	Foreign/Sec Language Methods	4
EPR 411	Measurement and Evaluation in Education	3
EDR 442	Reading in Content Areas	3
Internship		
EFL 498	Student Teaching in Foreign Language N-12	9
EFL 499	Internship in Foreign Language Education Seminar	1
Total Hours		43

[1] Admission to TEP required

Major Requirements for Spanish

Requirements		Hours
Foreign Cultures [1]		
FLL 120	Foreign Cultures	3
Additional Introductory Foreign Language Course		
Select one of the following courses:		3
ARA 101	Introductory Arabic I	
CHI 101	Introductory Chinese I	
FR 101	Introductory French I	
JPA 101	Introductory Japanese I	
GN 101	Introductory German I	
ITL 101	Introductory Italian I	
Literature		
Select one of the following:		3
FLL 220	Foreign Literatures in English Translation	
EH 218	World Literature II: 1660-Present	
Linguistics		
LING 350	Introduction to Linguistics	3
Foreign Language Seminar		
FLL 485	Foreign Language Capstone Seminar	3
Study Abroad/Foreign Language Internship		
Select one of the following:		6
SPA 290	Study Abroad	
SPA 390	Study Abroad	
SPA 490	Study Abroad	
FLL 333	Foreign Language Internship/SL	
Spanish		
SPA 201	Intermediate Spanish I	3
SPA 202	Intermediate Spanish II	3
SPA 210	Conversation and Culture	3
SPA 300	Advanced Grammar and Composition	3
SPA 304	Phonetics and Phonology	3
SPA 311	Survey of Spanish Peninsular Literature	3
SPA 312	Survey of Latin American Literature	3
Spanish Electives 200-level		
See your Academic Advisor		3
Spanish Electives 400-level		
Select 3 courses from UAB. See your academic advisor.		9
Total Hours		54

[1] If not taken in Area II

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		Hours
Additional Social & Behavioral Science		
PSC 101	Introduction to American Government	3
PSC 221	American State and Local Government	3
SOC 100	Introduction to Sociology	3
GEO 221	Geography of North America	3
Total Hours		12

Upper Division Requirements for Secondary Education/General Social Science Major

Requirements		Hours
Economics		
EC 440	Economics for Educators	3
Total Hours		3

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 468	Secondary Social Sci 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 in History

Requirements		Hours
History		
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3
HY 225	History of Alabama	3
HY 300	The Historian's Craft	3
Total Hours		18

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

Requirements		Hours
Psychology		
PY 101	Introduction to Psychology [1]	3
Total Hours		3

1 If not taken in Core Curriculum Area IV

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 465	Secondary Math 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 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

Requirements		Hours
Psychology		
PY 101	Introduction to Psychology [1]	3
Mathematics		
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
Mathematics Electives (200 Level or Higher)		
Must be approved by faculty advisor		3
Chemistry		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
Total Hours		29

1 If not taken in Core Curriculum Area IV

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 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

First Term	Hours	Second Term	Hours
EDU 100	2-3	CMST 101	3
EH 101	3	Core Curriculum Area III: Natural Science with Laboratory (non-biology)	4
BY 101 & BY 102[1]	4	Core Curriculum Area IV: History	3
Core Curriculum Area II: Fine Art	3	EH 102	3
MA 102 (or Core Curriculum Area III: Mathematics)	3	MA 110	3
	15-16		**16**

Sophomore

First Term	Hours	Second Term	Hours
EDU 200	3	ECY 300	3
EEC 440	3	HPE 200	2
PY 101	3	EPR 363	3
Core Curriculum Area II: Literature	3	Core Curriculum Area II: Humanities and Fine Art	3
Core Curriculum Area IV: History	3	Additional Natural Science	4
EDF 362	3	MA 313	3
	18		**18**

Junior

First Term	Hours	Second Term	Hours
EEC 301	3	EEC 402	3,4
MA 314 or 316	3	EEC 494	3,4
EEC 300	3-4	EDR 440	3
EPR 410	3	EEC 405	3
EEC 302	1	EEC 406	3
HPE 301	3		
	16-17		**15-17**

Senior

First Term	Hours	Second Term	Hours
EEC 415	3	EEC 491	1
EDR 443	3	EEC 490	9
EEC 412	3		
EEC 494	3,4		
EEC 414	3		
EEC 413	3		
	18-19		**10**

Total credit hours: 126-131

Proposed Program of Study in Secondary Education/Biology

Freshman

First Term	Hours	Second Term	Hours	Summer Term	Hours
EH 101	3	SOC 100	3	Organismal Biology[1]	4
PY 101	3	Core Curriculum Area IV: History (second in sequence)	3	Core Curriculum Area II: Fine Arts	3
CH 115 & CH 116	4	CH 117 & CH 118	4		
Core Curriculum Area IV: History (first in sequence)	3	EH 102	3		
BY 123	4	BY 124	4		
	17		**17**		**7**

Sophomore

First Term	Hours	Second Term	Hours	Summer Term	Hours
HPE 200	2	EDF 362	3	Core Curriculum Area II: Humanities or Fine Art	3
MA 125	4	CMST 101	3	Core Curriculum Area II: Literature	3
CH 235 & CH 236	4	ANTH 101	3		
PH 201 or 221	4	CH 237 & CH 238	4		
EDU 200	3	PH 202 or 222	4		
	17		**17**		**6**

Junior

First Term	Hours	Second Term	Hours	Summer Term	Hours
EPR 363	3	EHS 456	3	EDR 442	3
ECY 300	3	Ecology/Evolution [2]	3-4	Biology Elective (300-400 level)	3-4
EDT 300	3	EHS 497	3		
BY 210	3	Biology Elective (300-400 level)	4		
Biology Elective (300-400 level)	3-4	BY 311 or 330	3		
EHS 401	3				
	18-19		**16-17**		**6-7**

Senior

First Term	Hours	Second Term	Hours
EPR 410	3	EHS 489	3
Physiology/Development[3]	3-4	EHS 490	6
Biology Elective (400 level)	4		
EHS 467	3		
	13-14		**9**

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] Physiology/Development select one: BY 314, BY 405, BY 409, BY 410 or BY 450

Proposed Program of Study in Secondary Education/General Science

Freshman

First Term	Hours	Second Term	Hours	Summer Term	Hours
EH 101	3	SOC 100	3	Core Curriculum Area II: Fine Arts	3
PY 101	3	Core Curriculum Area IV: History Sequence	3	ES 101 & ES 102	4
CH 115 & CH 116	4	CH 117 & CH 118	4		
Core Curriculum Area IV: History Sequence	3	EH 102	3		
BY 123	4	BY 124	4		
	17		**17**		**7**

Sophomore

First Term	Hours	Second Term	Hours	Summer Term	Hours
HPE 200	2	EDF 362	3	Core Curriculum Area II: Humanities or Fine Art	3
MA 125	4	CMST 101	3	Astronomy & Lab[1]	4
CH 235 & CH 236	4	ANTH 101	3	Core Curriculum Area II: Literature	3
PH 201 or 221	4	CH 237 & CH 238	4		
EDU 200	3	PH 202 or 222	4		
	17		**17**		**10**

Junior

First Term	Hours	Second Term	Hours	Summer Term	Hours
EPR 363	3	EHS 497	3	EDR 442	3
ECY 300	3	EHS 456	3	Biology Elective (300-400 level)	3
EHS 401	3	BY 311 or 330	3		
BY 210	3	Ecology/Evolution [3]	3-4		
Organismal Biology[2]	4	Biology Elective (300-400 level)	3-4		
	16		**15-17**		**6**

Senior

First Term	Hours	Second Term	Hours
EHS 467	3	EHS 489	3
EPR 410	3	EHS 490	6
Physiology/Development[4]	3-4		
Biology Electives (400-level)	4		
	13-14		**9**

Total credit hours: 144-147

[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.

Proposed Program of Study in Secondary Education/Chemistry

Freshman

First Term	Hours	Second Term	Hours	Summer Term	Hours
EH 101	3	MA 126	4	Core Curriculum Area II: Literature	3
MA 125	4	Core Curriculum Area IV: History	3	Core Curriculum Area II: Humanities or Fine Art	3
Core Curriculum Area IV: History	3	CH 117 & CH 118	4		
Core Curriculum Area II: Fine Art	3	EH 102	3		
CH 115 & CH 116	4	PY 101	3		
	17		**17**		**6**

Sophomore

First Term	Hours	Second Term	Hours	Summer Term	Hours
HPE 200	2	EDF 362	3	CMST 101	3
BY 123	4	BY 124	4	EHS 401	3
CH 235 & CH 236	4	CH 237 & CH 238	4	ECY 300	3
CS 101	3	Core Curriculum Area IV: Social & Behavioral Science (non-history)	3		
EDU 200	3	EPR 363	3		
	16		**17**		**9**

Junior

First Term	Hours	Second Term	Hours
EHS 456	3	CH 326	3
CH 325	4	CH 355	4
CH 345	4	CH 440	3
PH 201 or 221	4	PH 202 or 222	4
EH 497	3	EDR 442	3
	18		**17**

Senior

First Term	Hours	Second Term	Hours
EHS 467	3	EHS 489	3
EPR 410	3	EHS 490	6
CH 461	3		
EHS 456	3		
Chemistry Elective	3-4		
	15-16		**9**

Total credit hours: 141-142

Proposed Program of Study in Secondary Education/General Social Science

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	HY 102	3
HY 101	3	Core Curriculum Area III: Natural Science with Laboratory	4
Core Curriculum Area III: Mathematics	3	HY 225	3
Core Curriculum Area II: Fine Art	3	EH 102	3
PY 101	3	Core Curriculum Area II: Humanities and Fine Arts	3
		SOC 100	3
	15		**19**

Sophomore

First Term	Hours	Second Term	Hours
EDU 200	3	EDF 362	3
HY 120	3	HY 121	3
Non-Western History [1]	3	PSC 101	3
Core Curriculum Area III: Natural Science	4	GEO 121	3
Core Curriculum Area II: Literature	3	HY 300	3
HPE 200	2	CMST 101	3
	18		**18**

Junior

First Term	Hours	Second Term	Hours
EPR 363	3	EHS 497	3
PSC 221	3	EHS 456	3
EHS 401	3	EC 440	3
History Electives (300-400 level)	6	GEO 221	3
ECY 300	3	History Electives (300-400 Level)	3
	18		**15**

Senior

First Term	Hours	Second Term	Hours
EHS 468	3	EHS 489	3
EPR 410	3	EHS 490	6
EDR 442	3		
History Electives (400-Level)	6		
HY 497	3		
	18		**9**

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

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	HY 102 (or Literature)	3
PY 101	3	MA 126	4
Core Curriculum Area IV: History	3	EH 102	3
Core Curriculum Area II: Fine Art	3	Core Curriculum Area III: Natural Science with Laboratory	4
MA 125	4		
	16		**14**

Sophomore

First Term	Hours	Second Term	Hours
EDU 200	3	EDF 362	3
HPE 200	2	MA 252	3
MA 227	4	MA 361	3
Core Curriculum Area III: Natural Science	4	CMST 101	3
Core curriculum Area IV: Social and Behavioral Science (Non-History)	3	Core Curriculum Area II: Humanities or Fine Art	3
Core Curriculum Area II: Literature	3		
	19		**15**

Junior

First Term	Hours	Second Term	Hours
EPR 363	3	EHS 497	3
MA 440	3	EHS 456	3
EHS 401	3	MA 441	3
MA 485	3	MA 486	3
MA 434	3	MA 435	3
ECY 300	3		
	18		**15**

Senior

First Term	Hours	Second Term	Hours
EHS 465	3	EHS 489	3
EPR 410	3	EHS 490	6
MA 311	3		
EDR 442	3		
MA 472	3		
	15		**9**

Total credit hours: 121

Proposed Program of Study in Secondary Education/Physics

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	PH 222 & 222L	4
PH 221 & 221L	4	Core Curriculum Area IV: History	3
Core Curriculum Area IV: History	3	PY 101	3
Core Curriculum Area II: Fine Art	3	EH 102	3
MA 125	4	Core Curriculum Area II: Humanities and Fine Art	3
		MA 126	4
	17		**20**

Sophomore

First Term	Hours	Second Term	Hours
EDU 200	3	EDF 362	3
MA 227	4	CH 117 & CH 118	4
CH 115 & CH 116	4	CMST 101	3
PH 351	4	MA 252	3
Core Curriculum Area II: Literature	3	PH 352	4
HPE 200	2	Core Curriculum Area II: Literature	3
	20		**20**

Junior

First Term	Hours	Second Term	Hours
EPR 363	3	EHS 497	3
EHS 401	3	EHS 456	3
PH 461	3	EDR 442	3
PH 445	3	PH 462	3

Core Currriculum Area IV: Social and Behavioral Science (non-history)	3	PH 446	3
ECY 300	3	Math Elective	3
	18		**18**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
EHS 467	3	EHS 489	3
EPR 410	3	EHS 490	6
PH 331 or 432	3	PH 451	3
PH 450	3		
Physics Elective	3		
	15		**12**

Total credit hours: 140

Minor in Education

Requirements		Hours
EDU 200	Education as a Profession	3
EDT 300	Teaching and Technology	3
EDF 362	Foundations of Education I: Social, Historical, Philosophical	3
EDF 363	Special Topics in Education Foundations	3
Choose two of the courses below:		6
EHS 497	Special Problems in Education	
EEC 302	Expressive Arts (P-6)	
EEC 440	Workshop in Education	
EDU 300	Special Topics in Education	
EPR 214	Introduction to Educational Statistics	
EPR 414	Lifespan Human Development	
HE 342	Introduction to Health Education	
HE 402	Mental Health and Stress Management	
HE 404	Global Trends in Health Education	
HE 408	Drug Use and Abuse	
KIN 305	Motor Development	
KIN 407	Coaching Young Athletes	
EMS 330	Introduction to Middle/Junior High Teaching	
EMS 352	Teaching Mathematics in Middle/Junior High School	
Only students who are formally admitted into the Teacher Education Program in Middle School Mathematics 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

Requirements		Hours
Biology		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
Health Education		
HE 140	First Aid	3
HE 141	Personal Health	3
Educational Statistics		
EPR 214	Introduction to Educational Statistics	3
Nutrition		
NTR 222	Nutrition and Health	3
Total Hours		20

Major Requirements for Health Education: Community Health Concentration

Requirements		Hours
Education Courses		
EPR 414	Lifespan Human Development	3
Health Education Courses		
HE 223	Introduction to Epidemiology and Disease Impact	3
HE 342	Introduction to Health Education	3
HE 343	Theory and Determ of Health Behavior	3
HE 421	Health Communication	3
HE 431	Planning and Implementing Health Education	3
HE 432	Administration of Health Education Programs	3
HE 452	Evaluation and Grantsmanship	3
Health Education Electives		
Select three of the following courses:		9
HE 402	Mental Health and Stress Management	
HE 404	Global Trends in Health Education	
HE 408	Drug Use and Abuse	
HE 423	Human Sexuality	
HE 490	Special Projects in Health Education/SL	
HE 491	Problems in Health Education	
Internship		
HE 499	Health Education Internship	9
Total Hours		42

Major in Health Education with a Human Services Concentration

Refer to Core Curriculum (p. 294)

Lower Division Requirements

Requirements		Hours
PSC 221	American State and Local Government	3
PY 212	Developmental Psychology	3
HE 140	First Aid	3
HE 141	Personal Health	3
NTR 222	Nutrition and Health	3
EPR 214	Introduction to Educational Statistics	3
Total Hours		18

Major Requirements for Health Education Major with a Human Services Concentration

Requirements		Hours
Major Requirements		
EPR 350	Introduction to Human Services	4
HE 223	Introduction to Epidemiology and Disease Impact	3
HE 342	Introduction to Health Education	3
HE 343	Theory and Determ of Health Behavior	3
MG 302	Management Processes and Behavior/SL	3
EPR 415	Case Management	3
EPR 420	Communication Skills in Human Services	3
EPR 425	Community Resource Identification/Mobilization in Human Services	3
HE 402	Mental Health and Stress Management	3
AC 200	Principles of Accounting I	3
EPR 414	Lifespan Human Development	3
HE 431	Planning and Implementing Health Education	3
HE 452	Evaluation and Grantsmanship	3
EPR 455	Fund Raising in Human Services	3
PSC 222	Introduction to Public Administration	3
EPR 461	Leadership in Non-Profit Administration	3
EPR 490	Internship in Human Services	6
Electives		
Select two of the following courses:		6
HE 404	Global Trends in Health Education	
HE 408	Drug Use and Abuse	
HE 423	Human Sexuality	
HE 432	Administration of Health Education Programs	
JS 101	Crime and Criminality	
Total Hours		61

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

Requirements		Hours
Biology		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
First Aid [1]		
HE 140	First Aid	3
Educational Statistics		
EPR 214	Introduction to Educational Statistics	3
Health		
HPE 200	Quality of Life	2
Total Hours		16

1 See program policy for waiver.

2 If not taken in Core Curriculum: Area IV

Major Requirements for Kinesiology with a Teacher Certification Concentration

Requirements		Hours
Foundations & Professional Studies [1]		
EDU 200	Education as a Profession	3
EDT 300	Teaching and Technology	3
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
Pre-TEP Major Requirements [1]		
Kinesiology Courses		
Aquatics		
Select one of the following aquatics courses:		
KIN 101	Beginning and Advanced Beginning Swimming	1
KIN 102	Intermediate Swimming/Swimmer Course	1
KIN 103	Lifeguard Training	1
KIN 112	Dance and Gymnastics	1
KIN 114	Rec Games/Outdoor Leisure	1
KIN 115	Weight Training	1
KIN 117	Team Sports	1
KIN 118	Sports Using Implements	1
KIN 131	Aerobics	1
KIN 132	Group Exercise Leadership	1

KIN 136	Intro to Physical Education Fitness and Sport	3
KIN 201	Officiating Techniques	2
KIN 300	Organization and Administration of Physical Education	3
KIN 305	Motor Development	3
KIN 307	Applied Kinesiology	3
KIN 400	Physiology of Exercise	4
KIN 402	Basic Athletic Training	2
KIN 407	Coaching Young Athletes	3
Admission to TEP Required for the courses:		
KIN 308	Adapted Physical Education	3
KIN 311	Elementary School Physical Education	3
KIN 320 & 320L	Fitness/Motor Skill Acquisition and Sports Skill Proficiency [2]	0
KIN 409	Assessment in Physical Education [2]	3
KIN 489	Instructional Strategy for Physical Education K-12 [2]	6
Internship		
KIN 495	Elementary/Secondary Physical Education Student Teaching	9
Total Hours		72

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)

Lower Division Requirements for a Kinesiology Major with a Exercise Science Concentration

Requirements		Hours
Biology		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
First Aid		
HE 140	First Aid [1]	3
Personal Health		
HE 141	Personal Health	3
Educational Statistics		
EPR 214	Introduction to Educational Statistics	3
If not taken in core, take the following:		0-10
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory (If not taken in core curriculum)	
or CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	
PY 101	Introduction to Psychology (If not taken in core curriculum)	
PH 201	College Physics I (If not taken in core curriculum)	
or PH 221	General Physics I	
Total Hours		17-27

[1] See program policy for 0 credit hour waiver criteria.

Major Requirements for Kinesiology with an Exercise Science Concentration

Requirements		Hours
Kinesiology		
KIN 136	Intro to Physical Education Fitness and Sport	3
KIN 115	Weight Training	1
KIN 307	Applied Kinesiology	3
KIN 400	Physiology of Exercise	4
KIN 405	Sports Nutrition	3
KIN 485	Exercise Testing/Prescription	3
General Electives		
Elective coursework to reach the 120 hour graduation requirement (hours variable)		75
Other Courses		
Select three of the following courses:		8-9
KIN 402	Basic Athletic Training	
KIN 305	Motor Development	
KIN 440	Principles of Conditioning the Athlete	
KIN 450	Physical Activity for Individuals with Disabilities/SL	
KIN 451	Physical Activity for Senior Adults	
KIN 460	Clinical Exercise Physiology	
KIN 470	Advanced Treatment Athletic Training	
KIN 499	Fitness Internship [1]	
Aquatics		
Select one of the following courses:		1
KIN 101	Beginning and Advanced Beginning Swimming	
KIN 102	Intermediate Swimming/Swimmer Course	
KIN 103	Lifeguard Training	
Kinesiology		
Select one of the following courses:		1
KIN 131	Aerobics	
KIN 132	Group Exercise Leadership	
Major Elective Requirements		
Select 15 to 17 hours of the following courses:		15-17
AHS 350	Medical Terminology for Health Professionals	
PY 218	Abnormal Psychology [3]	
or PY 330	Sport Psychology	
BY 123	Introductory Biology I [2]	
BY 124	Introductory Biology II [2]	
BY 210	Genetics	
BY 261	Introduction to Microbiology	
BY 271	Biology of Microorganisms	
BY 314	Embryology	
BY 327	Histology	
BY 330	Cell Biology	
BY 409	Principles of Human Physiology	
BY 420	General Endocrinology	
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory [2]	

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 [2]	
MA 126	Calculus II [2]	
PH 202	College Physics II [2]	
PH 222	General Physics II	
Internship		
KIN 499	Fitness Internship	3
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

Requirements		Hours
Biology		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
First Aid		
HE 140	First Aid [1]	3
Personal Health		
HE 141	Personal Health	3
Educational Statistics		
EPR 214	Introduction to Educational Statistics	3
Science		4
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory (If not taken in core curriculum)	
or PY 101	Introduction to Psychology	
Technology		
EDT 300	Teaching and Technology	3
or CS 101	Fluency With Information Technology	
Business Course		
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
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

Requirements		Hours
Aquatics		
Select one of the following:		1
KIN 101	Beginning and Advanced Beginning Swimming	
KIN 102	Intermediate Swimming/Swimmer Course	
KIN 103	Lifeguard Training	
Physical Education		
KIN 115	Weight Training	1
KIN 131	Aerobics	1
KIN 132	Group Exercise Leadership	1
KIN 136	Intro to Physical Education Fitness and Sport	3
KIN 305	Motor Development	3
KIN 307	Applied Kinesiology	3
KIN 340	Planning/Management of Fitness Facilities	3
KIN 400	Physiology of Exercise	4
KIN 405	Sports Nutrition	3
KIN 440	Principles of Conditioning the Athlete	3
KIN 485	Exercise Testing/Prescription	3
Select one of the following:		3
KIN 105	Golf	
KIN 112	Dance and Gymnastics	
KIN 114	Rec Games/Outdoor Leisure	
KIN 116	Ballroom and Latin Dancing	
KIN 117	Team Sports	
KIN 118	Sports Using Implements	
KIN 124	Beginning Whitewater Kayaking	
KIN 126	Flying Disc Sports	
KIN 130	Scuba Diving	
Select three of the following:		8-9
KIN 402	Basic Athletic Training	
KIN 407	Coaching Young Athletes	
KIN 450	Physical Activity for Individuals with Disabilities/SL	
KIN 451	Physical Activity for Senior Adults	
KIN 460	Clinical Exercise Physiology	
KIN 470	Advanced Treatment Athletic Training	
PY 218	Abnormal Psychology [1]	
or PY 330	Sport Psychology	

Internship		
KIN 499	Fitness Internship	6

[1] May not choose more than one Psychology elective

Health Education Community Health Concentration Proposed Program of Study

Freshman

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
CMST 101	3	CORE Curriculum Area I: EH 102	3	CORE Curriculum Area II: Elective	3
EH 101	3	CORE Curriculum Area III: MA	3		
CORE Curriculum Area II Literature Sequence	3	CORE Curriculum Area III: CH 105/106	4		
CORE Curriculum Area III BY 101/102	4	CORE Curriculum Area IV: Anth 101 Preferred	3		
		CORE Curriculum Area IV: PY 101	3		
	13		**16**		**3**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
BY 115	4	BY 116	4	CORE Curriculum Area IV: GEO 121 preferred	3
EPR 214	3	NTR 222	3	HE 141	3
Core Curriculum Area II: Fine Art	3	Core Curriculum Area IV: History	3		
Core Curriculum Area II: Literature Sequence	3	Minor Area Concentration	3		
		CORE Curriculum Area IV: SOC 100	3		
	13		**16**		**6**

Junior

First Term	**Hours**	**Second Term**	**Hours**
HE 140	3	HE 343	3
HE 342	3	HE 421	3
HE 223	3	HE Elective	3
Minor Area Concentration	6	Minor Area Concentration	3
	15		**12**

Senior

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
HE 431	3	HE 432	3	HE 499	9
HE 452	3	HE Elective	3		
HE Elective	3	Minor Area Concentration	3		
Minor Area Concentration	3				
	12		**9**		**9**

Total credit hours: 124

Health Education Human Services Concentration Proposed Program of Study

Freshman

First Term	**Hours**	**Second Term**	**Hours**
CORE Curriculum Area II Literature Sequence	3	EH 102	3
EH 101	3	CORE Curriculum Area II Literature Sequence	3
PY 212	3	CORE Curriculum Area III CH 105/106	4
HE 141	3	HE 140	3
CORE Curriculum Area III BY 101/102	4	CORE Curriculum Area III MA	3
	16		**16**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
CORE Curriculum Area IV PY 101	3	HE 223	3	EPR 214	3
PSC 221	3	CORE Curriculum Area II CMST 105	3		
MG 302	3	HE Elective	3		
CORE Curriculum Area IV (Choose 1 from: SOC 100, ANTH 101, GEO 121)	3	CORE Curriculum Area IV History	3		
CORE Curriculum Area IV Elective	3	CORE Curriculum Area II Fine Art	3		
	15		**15**		**3**

Junior

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
NTR 222	3	HE 343	3	EPR 460	3
HE 342	3	EPR 415	3		
EPR 350	4	EPR 414	3		
EPR 425	3	HE Elective	3		
AC 200	3				
	16		**12**		**3**

Senior

First Term	**Hours**	**Second Term**	**Hours**
HE 431	3	EPR 490	6
HE 452	3	EPR 455	3
EPR 420	3		
PSC 222	3		
HE 402	3		
	15		**9**

Total credit hours: 120

Kinesiology (Teacher Certification) Proposed Program of Study

Freshman

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
EDU 100	2-3	EH 102	3	CMST 101	3
EH 101	3	KIN 126	1	HE 140	3
BY 101 & BY 102	4	CH 105 & CH 106	4		
PY 101	3	Core Curriculum Area IV: History	3		
KIN 101	1	Core Curriculum Area IV: Social and Behavioral Science (non-history)	3		
Core Curriculum Area III: Mathematics	3				
	16-17		**14**		**6**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
BY 115	4	EPR 214	3	EDT 300	3
KIN 131	1	BY 116	4	Core Curriculum Area IV: History or Social Science	3
KIN 117	1	KIN 114	1		
EDU 200	3	EDF 362	3		
KIN 115	1	KIN 118	1		
Core Curriculum Area II: Literature	3	Core Curriculum Area II: Literature (second in sequence)	3		

Core Curriculum Area II: Fine Art	3		
	16	**15**	**6**

Junior

First Term	Hours	Second Term	Hours
HPE 200	2	KIN 307	3
ECY 300	3	KIN 112	1
EPR 363	3	KIN 132	1
KIN 305	3	KIN 320 & 320L	4
KIN 300	3	KIN 308	3
KIN 201	2	KIN 311	3
	16		**15**

Senior

First Term	Hours	Second Term	Hours
KIN 400	4	KIN 495	9
KIN 489	6		
KIN 402	2		
KIN 409	3		
KIN 407	3		
	18		**9**

Total credit hours: 131-132

Kinesiology Exercise Science Concentration - Proposed Program of Study

Freshman

First Term	Hours	Second Term	Hours
EDU 100	2-3	EH 102	3
EH 101	3	KIN 136	3
MA 106 or 125	3-4	BY 123 & 123L	4
KIN 115	1	Core Curriculum Area IV: Hisotry	3
CMST 101	3	Core Curriculum Area IV: Social and Behavioral Science (Non-History)	3
PY 101	3		
	15-17		**16**

Sophomore

First Term	Hours	Second Term	Hours
BY 115	4	EPR 214	3
KIN 131	1	BY 116	4
CH 115 & CH 116	4	HE 141	3
HE 140	3	KIN 132	1
Core Curriculum Area II: Literature Sequence	3	KIN 101	1
Core Curriculum Area II: Fine Art	3	Core Curriculum Area II: Literature Sequence	3
	18		**15**

Junior

First Term	Hours	Second Term	Hours
KIN 307	3	KIN 400	4
EDT 300	3	KIN 451	3
BY 210	3	Math/Science/KIN Elective (200-level and above)	3
KIN 305	3	Psychology Elective	3
CH 117 & CH 118	4	Core Curriculum Area IV: Social and Behavioral Science	3
	16		**16**

Senior

First Term	Hours	Second Term	Hours
KIN 485	3	KIN 499	3-6
KIN 402	2	KIN 405	3
PH 201 & 201L	4		
	9		**6-9**

Total credit hours: 111-116

Kinesiology Fitness Leadership Concentration - Proposed Program of Study

Freshman

First Term	Hours	Second Term	Hours	Summer Term	Hours
EDU 100	2-3	EH 102	3	CMST 101	3
EH 101	3	KIN 136	3		
BY 101 & BY 102	4	CH 105 & CH 106	4		
PY 101	3	Core Curriculum Area IV: History	3		
KIN 101	1	Core Curriculum Area IV: Social and Behavioral Science (Non-History)	3		
Core Curriculum Area III: Mathematics	3				
	16-17		**16**		**3**

Sophomore

First Term	Hours	Second Term	Hours
BY 115	4	EPR 214	3
KIN 131	1	BY 116	4
KIN 117	1	KIN 132	1
HE 140	3	HE 141	3
KIN 115	1	KIN 118	1
Core Curriculum Area II: Fine Art	3	Core Curriculum Area II: Literature	3
Core Curriculum Area II: Literature Sequence	3		
	16		**15**

Junior

First Term	Hours	Second Term	Hours
KIN 307	3	KIN 400	4
EDT 300	3	KIN 407	3
KIN 305	3	KIN 450	3
Kinesiology Elective	3	KIN 340	3
Core Curriculum Area IV: Social and Behavioral Science	3	Kinesiology Elective (300 level or above)	3
	15		**16**

Senior

First Term	Hours	Second Term	Hours
KIN 485	3	KIN 499	3-6
KIN 402	2	KIN 440	3
KIN 451	3	KIN 405	3
Kinesiology Electives (300 level or above)	6		
	14		**9-12**

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

Requirements		Hours
Health Education		
HE 141	Personal Health	3
HE 223	Introduction to Epidemiology and Disease Impact	3
HE 342	Introduction to Health Education	3
HE 404	Global Trends in Health Education	3
Health Education Electives		
Select three of the following courses:		9
HE 343	Theory and Determ of Health Behavior	
HE 402	Mental Health and Stress Management	
HE 408	Drug Use and Abuse	
HE 421	Health Communication	
HE 423	Human Sexuality	
HE 431	Planning and Implementing Health Education	
HE 432	Administration of Health Education Programs	
HE 452	Evaluation and Grantsmanship	
HE 489	Health Education Methods	
HE 490	Special Projects in Health Education/SL	
HE 491	Problems in Health Education	
Total Hours		21

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 cannot apply courses toward both major and minor course requirements. Students may need to take additional electives to reach the 19 hour requirement in order to receive the minor (e.g. students who fulfill the HE 140 "O" credit hour waiver).

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.

Requirements		Hours
First Aid		
HE 140	First Aid [1]	3
Human Anatomy and Physiology		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
Health		
HPE 200	Quality of Life	2-3
or HE 141	Personal Health	
Exercise Science		
KIN 400	Physiology of Exercise	4
Electives (Choose 1-5 Hours)		
KIN 132	Group Exercise Leadership	1
KIN 307	Applied Kinesiology	3
KIN 402	Basic Athletic Training	2
KIN 405	Sports Nutrition	3
KIN 440	Principles of Conditioning the Athlete	3
KIN 450	Physical Activity for Individuals with Disabilities/SL	3
KIN 451	Physical Activity for Senior Adults	3
KIN 460	Clinical Exercise Physiology	3
KIN 470	Advanced Treatment Athletic Training	3
KIN 485	Exercise Testing/Prescription	3
KIN 499	Fitness Internship	3

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.

Requirements		Hours
First Aid		
HE 140	First Aid	3
Biology		
BY 115	Human Anatomy	4
Kinesiology		
KIN 222	Concepts of Health and Fitness	3
KIN 115	Weight Training	1
KIN 117	Team Sports	1
KIN 118	Sports Using Implements	1
KIN 201	Officiating Techniques	2
KIN 307	Applied Kinesiology	3
KIN 402	Basic Athletic Training	2
KIN 407	Coaching Young Athletes	3
Kinesiology Elective		
Take any 100 Level KIN course		1
Total Hours		24

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.

Are you considering a transfer to UAB and the Collat School of Business? Please make an appointment with one of our advisors (205-934-8813). Remember to bring an unofficial copy of all previous college work to be able to discuss your course of study with the advisor.

All information regarding our business programs and the Collat School of Business is available at http://www.uab.edu/business/. You may check about class availability on BlazerNet, select the Student Services tab and scroll to class schedule.

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.

1. Core Curriculum Area II: Humanities and Fine Art: CMST 101 .
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.
4. Core Curriculum Area IV: Social and Behavioral Science, EC 210 Principles of Microeconomics and EC 211 Principles of Macroeconomics.

Lower Level Collat School of Business Requirements

Requirements		Hours
GPA Requirement		
Students must have at least:		
2.0 overall GPA (includes all UAB and transfer courses);		
2.0 UAB GPA (all courses);		
Obtain a minimum grade of C in all lower-level business courses.		
The UAB forgiveness policy may be appliced only once to each of four different courses with a C or below. See major listing for specific grade requirements relating to selected major.		
Communication Studies / Business Calculus Requirements		
CMST 101	Public Speaking	3
MA 105	Pre-Calculus Algebra (Satisfies the Core Curriculum Area III: Math Requirement)	3
Lower Level Business Courses		
Must earn a grade of C or better in each course, see above GPA requirement:		
AC 200	Principles of Accounting I	3
AC 201	Principles of Accounting II	3
EC 210	Principles of Microeconomics	3
EC 211	Principles of Macroeconomics	3
LS 246	Legal Environment of Business	3
IS 103	Applied Information Technology	3
QM 214	Quantitative Analysis I	3
QM 215	Quantitative Analysis II	3
BUS 101	Introduction into Business	3

or BUS 102	Business Foundations	
BUS 110	Essentials of Financial Literacy	3
Total Hours		36

Upper Level Collat School of Business Requirements

Requirements		Hours
Required Courses		
BUS 350	Business Communications	3
FN 310	Fundamentals of Financial Management	3
MG 302	Management Processes and Behavior/SL	3
MG 403	Operations Management	3
or DB 320	Distribution Management	
IS 303	Information Systems	3
MK 303	Basic Marketing	3
International Business		
Select one of the following:		3
EC 407	International Economics	
FN 412	International Financial Management	
MG 415	International Business Dynamics	
MK 416	International Marketing	
AC 440	International Accounting: From a User's Perspective	
Major Courses [3]		21-27
Major Capstone Course [4]		3
Electives [1,5]		6-12
Total Hours		51-63

1. Industrial Distribution (ID) Majors select two natural sciences from: CH 105/CH CH 106,CH 107/CH 108, PH 201/PH 201L, PH 202/PH 202L, and PHS 101. Medical Equipment and Supplies Distribution concentration (MESD) majors take one Biology (BY) and one Chemistry(CH).
2. All majors must complete one international business course. Finance majors take FN 412. Economics majors take EC 407 International Economics.
3. See requirements listed under individual majors.
4. Capstone courses: Accounting majors take AC 495. Marketing majors take MK 450. All other majors take BUS 450 as their capstone course.
5. Industrial Distribution majors take ME 103 as an elective. Medical Equipment and Supplies Distribution take BY 115 as an elective. Additional electives must be approved by advisor. Hours vary by major.

Academic Requirements

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 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.

Requirements		Hours
Accounting Lower-Level Requirements		
AC 200	Principles of Accounting I	3
AC 201	Principles of Accounting II	3
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
Accounting Upper-Level Requirements		
AC 300	Financial Accounting I	3
AC 304	Accounting Information Systems	3
AC 310	Financial Accounting II	3
AC 401	Cost Accounting	3
Total Hours		21

Minor Requirements for Business Administration

Requirements		Hours
Business Administration Lower-Level Requirements		
Must earn a grade of "C" or better in these courses		
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
Business Administration Upper-Level Requirements		
Must earn a grade of "C" or better in BUS 310 & 311 and have overall GPA of 2.0 in all courses required for this minor.		
BUS 310	Accounting and Finance for Nonbusiness Majors	3
BUS 311	Creating & Delivering Customer Value	3
BUS 410	Integrating Business Functions [1]	3
Business Administration Electives		
Select two courses from the following (must earn an overall GPA of 2.0 in these courses.):		6
BUS 350	Business Communications	
EC 210	Principles of Microeconomics	
EC 211	Principles of Macroeconomics	
EC 320	Behavioral Economics	
FN 101	Personal Finance	
IS 103	Applied Information Technology	
LS 246	Legal Environment of Business	
MG 358	Business and Society	
MK 303	Basic Marketing	
Total Hours		18

[1] Approved elective can substitute for BUS 410.

Minor Requirements for Economics

Must earn a grade of "C" or better and have an overall GPA of 2.0 in these courses.

Requirements		Hours
Economics Lower-Level Requirements		
EC 210	Principles of Microeconomics	3
EC 211	Principles of Macroeconomics	3
QM 214	Quantitative Analysis I	3
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
Economics Upper-Level Requirements		
EC 304	Microeconomics	3
EC 305	Macroeconomics	3

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

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		9
IS 302	Enterprise Systems	
IS 321	Systems Analysis	
MG 417	Project Management	
LS 471	Legal Elements of Fraud Investigation	
IS 472	Forensic Accounting and Information Tech Auditing	
IS 473	Fraud Examination	
IS 491	Current Topics in Information Systems	
Total Hours		15

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 in Management for Non-Business Majors

Requirements		Hours
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
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.

Requirements		Hours
Quantitative Methods Lower-Level Requirements		
EC 210	Principles of Microeconomics [1]	3
EC 211	Principles of Macroeconomics [1]	3
QM 214	Quantitative Analysis I [2]	3
QM 215	Quantitative Analysis II	3
BUS 101	Introduction into Business	3
Quantitative Methods Upper-Level Requirements		
Select two of the following courses		6
QM 400	Survey of Management Science	
QM 410	Nonparametric Statistics	
QM 420	Applied Forecasting	
QM 425	Applied Regression Analysis	
QM 442	Statistics for Quality and Productivity	
Total Hours		21

1 EC 210 & EC 211 may also apply to Core Curriculum Area IV; check the Core Curriculum for you particular major.

2 Note that the prerequisite for QM 214 is MA 105 with a C.

Minor in Management - Human Resources

Requirements		Hours
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
MG 302	Management Processes and Behavior/SL	3
MG 409	Human Resource Management	3
MG 411	Compensation Administration	3
MG 412	Employee Selection and Development	3
MG 413	Employment Law	3
Total Hours		18

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.

Requirements		Hours
Major Requirement		
Must be a Collat School of Business Major		
International Business Requirements		
Select four of the following courses		12
EC 407	International Economics	
FN 412	International Financial Management	
MG 415	International Business Dynamics	
MK 416	International Marketing	
AC 440	International Accounting: From a User's Perspective	
IB 495	Business Study Abroad	
Foreign Language Requirement		
Select two courses in a foreign language (preferably with a conversational emphasis)		6
Total Hours		18

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.

Requirements		Hours
BUS 101	Introduction into Business (Available Fall, Spring)	3
or BUS 102	Business Foundations	
IS 415	Social Media & Virtual (Available Fall)	3
IS 416	Web Analytics (Available Spring)	3
IS 417	Introduction to Business Intelligence (Available Fall)	3
MK 303	Basic Marketing (Available Fall, Spring)	3
or MK 471	Health Care Marketing	
MK 401	Social Media in Marketing (Available Spring)	3
Total Hours		18

Minor Requirements for Sports and Entertainment Marketing

Must earn a grade of "C" or better and overall GPA of 2.0 in these courses.

Requirements		Hours
Lower level requirement		
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
Upper level requirements		
MK 303	Basic Marketing	3
MK 330	Professional Selling	3
MK 401	Social Media in Marketing	3
MK 333	Sports Marketing	3
MG 430	Management and Leadership in Sports Organizations	3
Total Hours		18

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

Requirements		Hours
GPA requirement		
A 2.0 overall GPA is required in certificate courses.		
Certificate Courses		
BUS 101	Introduction into Business	3
or BUS 102	Business Foundations	
BUS 350	Business Communications	3
MK 303	Basic Marketing	3
MK 330	Professional Selling	3
MK 420	Sales Management	3
MK 425	Advanced Professional Selling	3
One course covering industry structure		3
MK 320	Industrial Distribution Management	
FN 452	Management of Financial Intermediaries	
MK 495	Industrial Distribution Directed Studies/Practicum (Optional, but encouraged.)	2
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 in 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

Requirements		Hours
Upper Level Requirements		
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.		
BUS 350	Business Communications	3
FN 310	Fundamentals of Financial Management	3
IS 303	Information Systems	3
MG 302	Management Processes and Behavior/SL	3
MG 403	Operations Management	3
MK 303	Basic Marketing	3
Capstone (AC)		
AC 495	Accounting Capstone	3
International Business Requirement		
Select one of the following:		3
EC 407	International Economics	
FN 412	International Financial Management	
MG 415	International Business Dynamics	
MK 416	International Marketing	
AC 440	International Accounting: From a User's Perspective	
Total Hours		24

Major Requirements for Accounting

Requirements		Hours
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]	3
AC 304	Accounting Information Systems [1]	3
AC 310	Financial Accounting II	3
AC 401	Cost Accounting	3
AC 402	Income Taxation I	3
AC 413	Internal Auditing	3
AC 430	Financial Accounting III	3
Accounting Major Electives		
Select 3 hours from 400-level or higher Accounting (AC) courses.		3
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		Hours
Concentration Requirements		
AC/IS 472	Forensic Accounting and Information Tech Auditing	3
AC/IS 473	Fraud Examination	3
LS 471	Legal Elements of Fraud Investigation	3
AC or IS Elective Approved by Advisor		3
Total Hours		12

Major in Finance

Upper Level Business Requirements For Finance

Requirements		Hours
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	3
IS 303	Information Systems	3
MK 303	Basic Marketing	3
FN 310	Fundamentals of Financial Management	3
MG 302	Management Processes and Behavior/SL	3
QM 350	Quantitative Methods for Finance (or other advisor approved course)	3
Capstone Courses		3
FN 495	Investments and Institutions Capstone (Investments & Institutions Concentration)	
FN 496	Financial Management Capstone (Financial Management & Real Estate Concentrations)	
International Business Requirement		
FN 412	International Financial Management	3
Total Hours		24

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		Hours
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	3
AC 401	Cost Accounting	3
FN 311	Short-Term Financial Management	3
FN 320	Financial Research Methods	3
FN 350	Equity Portfolio Management	3
FN 410	Advanced Financial Management	3
FN 411	Case Studies in Financial Management	3
FN 453	Financial Risk Management	3
Finance Major Elective		
Select one 300-level or higher AC, EC, or FN course approved by finance advisor. [1]		3
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

Requirements		Hours
Grade and GPA Requirement		
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.		
Finance Requirements		
AC 320	Financial Accounting Survey	3
EC 420	Applied Forecasting	3
FN 320	Financial Research Methods	3
FN 350	Equity Portfolio Management	3
FN 351	Bond Portfolio Management	3
FN 410	Advanced Financial Management	3
FN 420	Financial Sales & Trading	3
or FN 452	Management of Financial Intermediaries	
FN 453	Financial Risk Management	3
Finance Major Elective		
Select one 300-level or higher EC, FN or AC course approved by finance advisor. [1]		3
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

Requirements		Hours
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	3
FN 470	Real Estate Finance	3
FN 320	Financial Research Methods	3
FN 475	Real Estate Investment Analysis and Valuation	3
FN 370	Principles of Real Estate	3
FN 350	Equity Portfolio Management	3
or FN 452	Management of Financial Intermediaries	
FN 410	Advanced Financial Management	3
Finance Major Elective		
Select two 300-level or higher EC, FN, MK, or QM course approved by finance advisor.		6
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			
First Term	**Hours**	**Second Term**	**Hours**
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3
Core Curriculum Area IV: Social & Behavoiral Science	3	Core Curriculum Area II: Humanities and Fine Art [1]	3
Core Curriculum Area III: Natural Science with Lab	4	BUS 110	3
	16		**15**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
BUS 350	3	MK 303	3
MG 302	3	AC 310	3
AC 304	3	AC 402	3
AC 300	3	AC 401	3
Core Curriculum Area IV: History[2]	3	MG 403	3
	15		**15**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
FN 310	3	AC 495	3
AC 413	3	International Business Elective[3]	3
IS 303	3	Accounting Elective (400 level)	3
AC 430	3	General Elective	4

General Elective	3	
	15	**13**

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

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3
Core Curriculum Area III: Natural Science with Lab	4	Core Curriculum Area II: Humanities and Fine Art[1]	3
Core Curriculum Area IV: Social & Behavorial Science	3	BUS 110	3
	16		**15**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 200	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
QM 350	3	BUS 350	3
AC 320	3	IS 303	3
EC 301	3	FN 410	3
FN 310	3	FN 412	3
Core Curriculum Area IV: History[2]	3	MK 303	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
FN 350	3	FN 453	3
FN 320	3	FN 311	3
FN 411	3	FN 496	3
AC 401	3	General Electives	4
MG 302	3		
	15		**13**

Total credit hours: 120

Proposed Program of Study for a Major in Finance with a Concentration in Investments and Institutions

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area II: Humanities and Fine Art[2]	3
Core Curriculum Area IV: History[1]	3	BUS 110	3
	15		**15**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
QM 350	3	BUS 350	3
MK 303	3	FN 320	3
MG 302	3	FN 350	3
FN 310	3	AC 320	3
EC 301	3	FN 351	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
IS 303	3	FN 453	3
EC 420	3	FN 495	3
FN 410	3	FN/EC/AC Elective 300/400 level	3
FN 420	3	Core Curriculum Area III: Natural Science with Lab	4
FN 452	3	General Electives	4
	15		**17**

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

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3

Core Curriculum Area II: Humanities, Fine Arts[1]	3	BUS 110	3
Core Curriculum Area IV: Social and Behavorial Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
QM 350	3	BUS 350	3
EC 301	3	IS 303	3
AC 320	3	FN 410	3
FN 310	3	FN 412	3
Core Curriculum Area IV: History[2]	3	MK 303	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
FN 370	3	FN 475	3
FN 320	3	FN 496	3
FN 350 or 452	3	FN 470	3
MG 302	3	General Electives	4
Major Elective (300 or 400 level)	3		
	15		**13**

Total credit hours: 120

Department of Management, Information Systems and Quantitative Methods

Chair: Molly McLure Wasko

The Department of Management, Information Systems and Quantitative Methods (http://www.uab.edu/business/departments-centers/academic-departments/management-informationsystems-quantitativemethods) supports the mission of the Collat School of Business through the department's majors and course offerings. The department will offer an educational foundation that will prepare students for professional careers and enable them to pursue graduate studies.

The department is responsible for activities in management, information systems, and quantitative methods.

Upper Level Business Requirements for Management and Information Systems

Requirements		Hours
Upper-Level Requirements [1]		
BUS 350	Business Communications	3
IS 303	Information Systems	3
MG 403	Operations Management	3
FN 310	Fundamentals of Financial Management	3
MG 302	Management Processes and Behavior/SL	3
MK 303	Basic Marketing	3
Capstone Requirement [1]		3
BUS 450	Strategic Management Capstone Experience (Management Majors) [2]	
International Business Requirement [1]		
Select one of the following courses:		3
EC 407	International Economics	
FN 412	International Financial Management	
MG 415	International Business Dynamics	
MK 416	International Marketing	
AC 440	International Accounting: From a User's Perspective	
Total Hours		24

1. Must earn a grade of C or better in all stated prerequisites for all business courses and have an overall 2.0 GPA.
2. 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

other areas of business such as finance, information systems, economics and marketing.

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

Management Major

The management major is designed for students who seek to develop a broad exposure to the management discipline rather than pursue any emphasis. This major includes courses in human resources, organizational behavior, leadership and employment law.

Major Requirements for Management

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.		
Required Courses		
MG 401	Organizational Behavior	3
MG 409	Human Resource Management	3
MG 413	Employment Law	3
MG 425	Mnging through Ldrship	3
Management Electives [1]		
Choose 4 (12 hours) MG 300/400 courses		12
Total Hours		24

[1] Students may NOT apply MG 415 to this requirement and the IB requirement. COURSE USED ONLY ONCE.

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 course, 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 [1]	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] 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

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 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

Requirements		Hours
Information Systems Requirements		
IS 204	Introduction to Business Programming	3
IS 301	Introduction to Database Management Systems	3
IS 321	Systems Analysis	3
MG 417	Project Management	3
IS 302	Enterprise Systems	3
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

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	BUS 110	3
Core Curriculum Area II: Humanities, Fine Arts[1]	3	IS 103	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MG 403	3
MK 303	3	MG 409	3
MG 302[4]	3	MG 417	3
FN 310	3	Core Curriculum Area IV: History[2]	3
EC 304 or 320	3	International Business Elective[3]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
MG 401	3	BUS 450	3
IS 303	3	Finance Elective[6]	3
Marketing Elective[5]	3	Business Course Elective	3
Business Course Elective	3	General Electives	4
General Electives	3		
	15		**13**

Total credit hours: 120

1. Select one from the following courses: ARH 101, MU 120 or THR 100.
2. Select one course from the following: HY 101, HY 102,HY 104,HY 105, HY 120, or HY 121.
3. Choose from AC 440, EC 407, MG 415, MK 416 ,FN 412, or IB 495.
4. Junior standing required (60 semester hours credit)
5. Select one from: Any 300/400 MK course.
6. Select one from: Any 300/400 FN course.

Proposed Program of Study for a Major in Management

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3
Core Curriculum Area IV: Social & Behavioral Science	3	BUS 110	3
Core Curriculum Area II: Humanities, Fine Art[1]	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3

Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MG 413[4]	3
MK 303	3	MG 409	3
MG 302[4]	3	MG 403	3
IS 303	3	FN 310	3
MG 425	3	Core Curriculum Area IV: History[2]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
MG 401	3	BUS 450	3
MG 416	3	MG 417	3
Management Electives	6	International Business Elective[3]	3
General Elective	3	General Electives	4
	15		**13**

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, MK 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 Management with a Concentration in Human Resource

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3
Core Curriculum Area II: Humanities, Fine Art[1]	3	BUS 110	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MG 413[4]	3
MK 303	3	MG 409	3
MG 302[4]	3	MG 425	3
FN 310	3	Core Curriculum Area IV: History[2]	3
IS 303	3	International Business Elective[3]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
MG 401	3	BUS 450	3
MG 411	3	MG 412	3
Managment Electives (300/400 level)	6	MG 403	3
General Elective	3	General Electives	4
	15		**13**

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 105HY 120 or HY 121.

3 Select one from: MG 415, MK 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

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 101	3	IS 103	3
Core Curriculum Area II: Humanities, Fine Art[1]	3	BUS 110	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	FN 310	3
IS 303	3	IS 301	3
IS 321	3	MG 302	3
MK 303	3	IS 204	3

Information Systems Elective	3	Information Systems Elective	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
MG 403	3	MG 417	3
Information Systems Elective	3	International Business Elective[3]	3
Information Systems Elective (300 level or above)	3	Information Systems Elective	3
Core Curriculum Area IV: History[2]	3	General Electives	4
General Elective	3		
	15		**13**

Total credit hours: 120

1 Select one from: ARH 101, MU 120 or THR 100.

2 Select one from: HY 101, HY 102, HY 120 or HY 121.

3 Select one from: MG 415, MK 416, EC 407, FN 412 or AC 440.

Proposed Program of Study for a Major in Management with a Concentration in Operations Management

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	CMST 101	3
BUS 110	3	IS 103	3
BUS 101	3	Core Curriculum Area II: Fine Art[1]	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area III: Natural Science (with laboratory)	4	EC 211	3
Core Curriculum Area II: Literature	3	Core Curriculum Area II	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MG 403	3
MK 303	3	MG 401	3
MG 302	3	MG 409	3
FN 310	3	IS 303	3
Core Curriculum Area IV: History[2]	3	International Business requirement[4]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
MG 413	3	BUS 450	3
MG 425	3	Major Electives[3]	6
Major Electives[3]	6	General Electives	7
	12		**16**

Total credit hours: 120

1 Select one from: ARH 101, MU 120 or THR 100

2 Select one from: HY 101, HY 102, HY 120 or HY 121

3 Select four from MG 416, MG 417, MG 418, MG 445, and any 300/400 advisor approved course.

4 Choose from MG 415, MK 416, EC 407, FN 412, AC 440 or IB 495

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		Hours
Grade and GPA Requirement		
Students must earn a grade of C or better in all stated prerequisites for all business courses and have an overall 2.0 GPA.		
Upper-Level Requirements		
BUS 350	Business Communications	3
FN 310	Fundamentals of Financial Management	3
MK 303	Basic Marketing	3
DB 320	Distribution Management	3
IS 303	Information Systems	3
MG 302	Management Processes and Behavior/SL	3
Capstone Requirement		3
MK 450	Strategic Marketing (Marketing Majors) [2]	
BUS 450	Strategic Management Capstone Experience (Industrial Distribution Majors) [2]	
or MK 450	Strategic Marketing	
BUS 450	Strategic Management Capstone Experience (Economics Majors)	
International Business Requirement		
Select one of the following:		3
EC 407	International Economics (Economics majors must take this course.)	
FN 412	International Financial Management	
MG 415	International Business Dynamics	
MK 416	International Marketing	

AC 440	International Accounting: From a User's Perspective	
Total Hours		24

1 Students majoring in Economics, Marketing and Industrial Distribution are required to completeDB 320

2 To attempt MK 450, must have completed with a grade of C or better in BUS 350, FN 310, MK 312, MK 320, MK 408and MK 410 or obtain permission of the Department Chair of MIDE and instructor.

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

Requirements		Hours
Marketing Major Courses		
MK 320	Industrial Distribution Management	3
MK 330	Professional Selling	3
MK 408	Marketing Research	3
MK 410	Integrated Marketing Communication	3
Marketing Management Concentration		
MK 312	Retail Marketing	3
MK 421	Entrepreneurship and Marketing Planning	3
Two Marketing Electives at the 400 level or above		6
Total Hours		24

Concentration in Professional Sales Management

Requirements		Hours
Marketing Major Courses		
MK 320	Industrial Distribution Management	3
MK 330	Professional Selling	3
MK 408	Marketing Research	3
MK 410	Integrated Marketing Communication	3
Professional Sales Concentration		
MK 420	Sales Management	3
MK 425	Advanced Professional Selling	3
Two Marketing Electives at the 400 level or above		6
Total Hours		24

Concentration in Retail Marketing Management

Requirements		Hours
Marketing Major Courses		
MK 320	Industrial Distribution Management	3
MK 330	Professional Selling	3
MK 408	Marketing Research	3
MK 410	Integrated Marketing Communication	3
Concentration in Retail Marketing Management		
MK 312	Retail Marketing	3
MK 420	Sales Management	3
MK 430	Industrial Distribution Operations	3
One Marketing Course at the 400 level		3
Total Hours		24

Concentration in Social Media Marketing

Requirements		Hours
Marketing Major courses		
MK 320	Industrial Distribution Management	3
MK 330	Professional Selling	3
MK 408	Marketing Research	3
MK 410	Integrated Marketing Communication	3
Social Media Marketing Concentration		
MK 401	Social Media in Marketing	3
One Marketing Elective Course		3
Select two from the following:		6
IS 415	Social Media & Virtual	
IS 416	Web Analytics	
IS 417	Introduction to Business Intelligence	
Total Hours		24

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

Requirements		Hours
Grade and GPA Requirement		
Students must maintain an overall 2.0 GPA and an overall 2.0 GPA in all major courses.		
Lower Level Engineering		
ME 103	Drawing, Design and Measurement for Industrial Distribution	3
Advanced Engineering		
ME 302	Overview of Mechanical Components	3
EE 305	Fundamentals of Electrical Engineering	2
MSE 350	Introduction to Materials	3
Required Marketing Courses		
MK 320	Industrial Distribution Management	3
MK 330	Professional Selling	3
MK 408	Marketing Research	3
MK 430	Industrial Distribution Operations [2]	3
MK 435	Industrial Distribution Policies and Quality Issues [2]	3
MK 495	Industrial Distribution Directed Studies/Practicum	2
Total Hours		28

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 [1]

Requirements		Hours
Industrial Distribution Electives		
MK 312	Retail Marketing	3
MK 410	Integrated Marketing Communication	3
MK 421	Entrepreneurship and Marketing Planning	3
MK 450	Strategic Marketing	3
Total Hours		12

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

Requirements		Hours
Lower Level Biology Requirement		
BY 115	Human Anatomy (Cannot be used in Core Area III)	4
BY 115L	Human Anatomy Laboratory	0
Allied Health Requirement		
AHS 350	Medical Terminology for Health Professionals	3
Select two from the following:		6
AHS 330	Health Care Systems	
AHS 416	Financial Management in Health Care Organizations	
AHS 435	Survey of Clinical and Administrative Information Systems	
MK 490	Special Topics in Marketing	
(Health Care Marketing)		
EC 306	Health Care Economics	
FN 360	Fundamentals of Healthcare Financial Management	
Required Business Courses [1]		
DB 320	Distribution Management (completed as upper level core class)	3
DB 430	Distribution Operations	3
DB 435	Distribution Policies and Quality Issues	3
DB 495	Distribution Directed Studies Practicum	3
MK 330	Professional Selling	3
Total Hours		28

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

Requirements		Hours
Economics Requirements [1]		
EC 304	Microeconomics	3
EC 305	Macroeconomics	3
Economics Major Electives [1]		
Select six 300-level or higher Economics (EC) courses (Maximum of two 400-level QM courses) [2]		18
Total Hours		24

1. 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.
2. 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

Requirements		Hours
Philosophy Requirements		
PHL 120	Practical Reasoning	3
PHL 230	Social and Political Philosophy	3
PHL 470	Philosophical Problems in the Natural and Social Sciences	3
Select one of the following:		3
PHL 135	The Rule of Law	
One 300 or higher PHL course		
Economics Requirements [1]		
EC 304	Microeconomics	3
EC 305	Macroeconomics	3
Philosophy and Political Economy Requirements [1]		
EC 320	Behavioral Economics	3
EC 330	Cooperation and Competition	3
EC 450	Economics, Institutions & Law	3
Economics Major Electives [1]		
Select three 300-level or higher Economics (EC) courses (maximum of two 400-level QM courses) [2]		9
Total Hours		36

1. 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.
2. 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

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
EH 101	3	EH 102	3
BUS 101	3	CMST 101	3
MA 105	3	IS 103	3
Core Curriculum Area II: Fine Arts[1]	3	BUS 110	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
QM 214	3	LS 246	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area III: Natural Science (with laboratory)	4	EC 211	3
Core Curriculum Area II: Literature	3	Core Curriculum Area II	3
	16		**15**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
BUS 350	3	MK 312	3

MK 303[2]	3	MK 330	3
MG 302[3]	3	MK 410	3
IS 303	3	FN 310	3
MG 403 or DB 320	3	DB 320[4]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
MK 408	3	MK 450	3
MK 421	3	International Business Elective[6]	3
Core Curriculum Area IV: History[5]	3	Marketing Elective (300/400 level)	3
Marketing Elective (300/400 level)	3	General Electives	4
General Elective	3		
	15		**13**

Total credit hours: 120

Proposed Program of Study for a Major in Marketing - Professional Sales Concentration

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	Core Curriculum Area III: Natural Science (with laboratory)	4
BUS 101	3	EH 102	3
MA 105	3	CMST 101	3
Core Curriculum Area II: Fine Arts[1]	3	IS 103	3
Core Curriculum Area IV: Social and Behavioral Science	3	BUS 110	3
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
Core Curriculum Area II: Literature	3	LS 246	3
QM 214	3	QM 215	3
AC 200	3	AC 201	3
EC 210	3	EC 211	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MK Elective	3
MK 303[2]	3	MK 330	3
MG 302[3]	3	MK 410	3
MG 403 or DB 320	3	FN 310	3
IS 303	3	DB 320[4]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
Core Curriculum Area IV: History[5]	3	International Business Elective[6]	3
Marketing Elective (300/400 level)	3	300/400 MK elective	3
General Elective	3	General Electives	4
MK 408	3	MK 450	3
MK 420	3	MK 425	3
	15		**16**

Total credit hours: 123

Proposed Program of Study for a Major in Marketing - Retail Marketing Management Concentration

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	Core Curriculum Area III: Natural Science (with laboratory)	4
BUS 101	3	EH 102	3
MA 105	3	CMST 101	3
Core Curriculum Area II: Fine Arts[1]	3	IS 103	3
Core Curriculum Area IV: Social and Behavioral Science	3	BUS 110	3
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
Core Curriculum Area II: Literature	3	LS 246	3
QM 214	3	QM 215	3
AC 200	3	AC 201	3
EC 210	3	EC 211	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MK 312	3
MK 303[2]	3	MK 330	3
MG 302[3]	3	MK 410	3
MG 403 or DB 320[2]	3	DB 320[4]	3
IS 303	3	FN 310	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
Core Curriculum Area IV: History[5]	3	International Business Elective[6]	3
Marketing Elective (300/400 level)	3	General Electives	4
General Elective	3	MK 450	3
MK 408	3	MK 430	3

MK 420	3		
	15		**13**

Total credit hours: 120

Proposed Program of Study for a Major in Marketing - Social Media Marketing Concentration

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	Core Curriculum Area III: Natural Science (with laboratory)	4
BUS 101	3	EH 102	3
MA 105	3	CMST 101	3
Core Curriculum Area II: Fine Arts[1]	3	IS 103	3
Core Curriculum Area IV: Social and Behavioral Science	3	BUS 110	3
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
Core Curriculum Area II: Literature	3	LS 246	3
QM 214	3	QM 215	3
AC 200	3	AC 201	3
EC 210	3	EC 211	3
	16		**15**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	MK 401	3
MK 303[2]	3	MK 330	3
MG 302[3]	3	MK 410	3
MG 403 or DB 320[2]	3	FN 310	3
IS 303	3	DB 320[4]	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
IS Major Elective[7]	3	IS Major Elective[7]	3
Core Curriculum Area IV: History[5]	3	International Business Elective[6]	3
MK Elective	3	General Electives	4
General Elective	3	MK 450	3
MK 408	3		
	15		**13**

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.

5 Choose from HY 101, HY 102, HY 104, HY 105,HY 120, HY 121.

6 Select one from: MK 416, MG 415, EC 407, FN 412, AC 440, IB 495.

7 Choose from IS 415, IS 416, and MG 417.

Proposed Program of Study for a Major in Industrial Distribution : Engineering Concentration

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	BUS 110	3
BUS 101	3	IS 103	3
Core Curriculum Area IV: History[1]	3	Core Curriculum Area II: Fine Art[2]	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	QM 215	3
AC 200	3	CMST 101	3
EC 210	3	AC 201	3
ME 103	3	EC 211	3
Core Curriculum Area II: Literature	3	LS 246	3
Core Curriculum Area III: Natural Science (with laboratory)	4	Core Curriculum Area II	3
	19		**18**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	EE 305	3
MK 303[3]	3	ME 302	3
MG 302[4]	3	MK 416	3
IS 303	3	MSE 350	3
DB 320[3]	3	Elective	3
	15		**15**

Senior

First Term	Hours	Second Term	Hours
FN 310	3	BUS 450	3
DB 430	3	DB 435	3
MK 330	3	Elective	3
DB 495	3	Elective	3
Business Elective	3		
	15		**12**

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

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	BUS 110	3
BUS 101	3	IS 103	3
Core Curriculum Area IV: History[1]	3	Core Curriculum Area II: Fine Art[2]	3
Core Curriculum Area II: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	CMST 101	3
AC 200	3	QM 215	3
EC 210	3	AC 201	3
Core Curriculum Area II: Literature	3	EC 211	3
Core Curriculum Area III: Natural Science (with laboratory)	4	LS 246	3
		Core Curriculum Area II	3
	16		**18**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	BY 115	4
MK 303[3]	3	MK 416	3
DB 320[3]	3	AHS 350	3
MG 302[4]	3	EC 306	3
IS 303	3	General Elective	3
	15		**16**

Senior

First Term	Hours	Second Term	Hours
FN 310 or 360	3	DB 435	3
MK 330	3	BUS 450	3
DB 430	3	Elective	3
MK 471	3	Elective	3
DB 495	3		
	15		**12**

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

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	EC 210	3
BUS 101	3	IS 103	3
Core Curriculum Area II: Fine Arts[1]	3	BUS 110	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	Hours	Second Term	Hours
QM 214	3	LS 246	3
AC 200	3	QM 215	3
Core Curriculum Area II: Literature	3	AC 201	3
Core Curriculum Area III: Natural Science (with laboratory)	4	EC 211	3
Core Curriculum Area IV: History[2]	3	CMST 101	3
		Core Curriculum Area II	3
	16		**18**

Junior

First Term	Hours	Second Term	Hours
BUS 350	3	EC 304	3
MK 303	3	DB 320	3
MG 302	3	EC Major Electives[3]	9
FN 310	3		
IS 303	3		
	15		**15**

Senior

First Term	Hours	Second Term	Hours
EC 305	3	EC 450	3
EC 407	3	BUS 450	3
Economics Major Electives[3]	9	General Elective	4
	15		**10**

Total credit hours: 120

Proposed Program of Study for a Major in Economics with a Concentration in Philosophy, Politics, and Economics

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 105	3	EC 210	3
BUS 101	3	IS 103	3
Core Curriculum Area II: Fine Arts[1]	3	BUS 110	3

Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area III: Natural Science (with laboratory)	4
	15		**16**

Sophomore

First Term	**Hours**	**Second Term**	**Hours**
QM 214	3	LS 246	3
AC 200	3	QM 215	3
Core Curriculum Area III: Natural Science (with laboratory)	4	AC 201	3
Core Curriculum Area IV: History[2]	3	EC 211	3
Core Curriculum Area II: Literature	3	CMST 101	3
		Core Curriculum Area II	3
	16		**18**

Junior

First Term	**Hours**	**Second Term**	**Hours**
BUS 350	3	EC 304	3
EC 320	3	EC 330	3
MG 302[3]	3	PHL 120	3
FN 310	3	PHL 230	3
IS 303	3	DB 320	3
	15		**15**

Senior

First Term	**Hours**	**Second Term**	**Hours**
MK 303	3	BUS 450	3
PHL 470	3	EC 450	3
EC 305	3	PHL 135 (or PHL Elective)	3
EC 407	3	Economics Major Elective	3
EC Elective	3	Economics Major Elective or FN 412[3]	3
	15		**15**

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. Individaul 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

Requirements		Hours
EGR 110 & EGR 111	Introduction to Engineering I and Introduction to Engineering II [1]	2
ME 102	Engineering Graphics	2
EGR 150	Computer Methods in Engineering	3
CH 115	General Chemistry I	3
CH 116	General Chemistry I Laboratory	1
CH 117	General Chemistry II [2]	3
CH 118	General Chemistry II Laboratory [3]	1
EH 101	English Composition I	3
EH 102	English Composition II	3
MA 125	Calculus I	4
MA 126	Calculus II	4
PH 221 & 221L	General Physics I and General Physics Laboratory I	4
Total Hours		33

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.

Requirements		Hours
The additional coursework for this option includes the following:		
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
BY 271	Biology of Microorganisms (pre-optometry only)	4
Pre-dental students should also choose one Biology Elective		
CH 235	Organic Chemistry I	3
CH 236	Organic Chemistry I Laboratory	1
CH 237	Organic Chemistry II	3
CH 238	Organic Chemistry II Laboratory	1

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; andSPA 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

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
CE 220	Mechanics of Solids	3

CE 360	Structural Analysis	3
ME 215	Dynamics	3
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 & EGR 111	Introduction to Engineering I and Introduction to Engineering II *	2
or EGR 200	Introduction to Engineering Design	
Biomedical Engineering Electives		
Select three of the following courses:		9
BME 310	Biomaterials	
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 Civil 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 Civil Engineering Courses		
CE 210	Statics	3
CE 220	Mechanics of Solids	3
CE 230	Plane Surveying	3
CE 236	Environmental Engineering	3
Civil Engineering Electives		
Select three of the following courses:		9
CE 332	Soil Engineering	
CE 345	Transportation Engineering	
CE 360	Structural Analysis	
CE 395	Engineering Economics	
CE 450	Structural Steel Design	
CE 453	Design of Wood Structures	
CE 455	Reinforced Concrete Design	
CE 457	Concrete Technology	
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)		2
EGR 110 & EGR 111	Introduction to Engineering I 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	

MSE 281 & 281L	Physical Materials I and Physical Materials I Laboratory	
Total Hours		20-21

Minor Requirements For Environmental 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 Civil Engineering Courses		
CE 236	Environmental Engineering	3
CE 337	Hydraulics	3
CE 430	Water Supply/Drainage Design	3
CE 480	Introduction to Water and Wastewater Treatment	3
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

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 Materials Engineering Courses		
MSE 280	Engineering Materials	3
MSE 281 & 281L	Physical Materials I and Physical Materials I Laboratory	4
MSE 380	Thermodynamics of Materials	3
MSE 381	Physical Materials II	3
MSE 382	Mechanical Behavior of Materials	3
MSE 465 & 465L	Characterization of Materials and Characterization of Materials Laboratory	4
Materials Engineering Electives		
Select one of the following courses:		3-4
MSE 413	Composite Materials	
MSE 430 & 430L	Polymeric Materials and Polymeric Materials Laboratory	
MSE 464 & 464L	Metals and Alloys and Metals and Alloys Laboratory	
MSE 470	Ceramic Materials	
Total Hours		23-24

Minor Requirements for Mechanical Engineering - Thermal Systems

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		
ME 241	Thermodynamics I	3
ME 242	Thermodynamics II	3
ME 321	Introduction to Fluid Mechanics	3
ME 322	Introduction to Heat Transfer	3
Mechanical Engineering Electives		
Select three courses from the following:		9
ME 361 & 361L	Thermo-Fluids Systems and Thermo-Fluids Systems Laboratory	
ME 411	Intermediate Fluid Mechanics	
ME 421	Introduction to Computational Fluid Dynamics Basics	
ME 445	Combustion	
ME 449	Power Generation	
ME 455	Thermal-Fluid Systems Design	
Total Hours		21

Minor Requirements for Mechanical Engineering - Mechanical Systems

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
CE 220	Mechanics of Solids	3
ME 215	Dynamics	3
ME 370	Kinematics and Dynamics of Machinery	3
ME 371	Machine Design	4
Engineering Electives		
Select two of the following courses:		6
ME 464	Introduction to Finite Element Method	
ME 475	Mechanical Vibrations	
MSE 401	Materials Processing	
Total Hours		22

Minor Requirements for Software 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 333	Engineering Programming Using Objects	3
EE 337	Introduction to Microprocessors	4
EE 432	Introduction to Computer Networking	3
Required Engineering Course		
EGR 150	Computer Methods in Engineering	3
Electrical Engineering Electives		
Select one of the following courses:		3

EE 433	Engineering Software Solutions	
EE 444	Real-Time Process & Protocols	
EE 447	Internet/Intranet Application Development	
EE 452	VHDL Digital Systems Design	
Total Hours		22

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 have 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 to graduate.

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 seeking a BME minor must take at least nine (9) semester hours and earn a minimum GPA of 3.00 in UAB engineering courses attempted before enrolling in BME courses.

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

Requirements		Hours
General Chemistry Requirement		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
Required Courses		
BY 123	Introductory Biology I	4
BY 210	Genetics	3
BY 409	Principles of Human Physiology	4
EGR 265	Math Tools for Engineering Problem Solving	4
MA 126	Calculus II	4
MA 260	Introduction to Linear Algebra	3
Total Hours		30

Major Requirements for Biomedical Engineering

Requirements		Hours
Introduction to Engineering		
Select one of the following:		2
EGR 110 & EGR 111	Introduction to Engineering I and Introduction to Engineering II	
EGR 200	Introduction to Engineering Design	
Engineering Courses		
CE 210	Statics	3
EGR 150	Computer Methods in Engineering	3
ME 102	Engineering Graphics	2
MSE 280	Engineering Materials	3
EE 312	Electrical Systems	3
ME 215	Dynamics	3
Required Biomedical Engineering Courses		
BME 210	Engineering in Biology	3
BME 310	Biomaterials	3
BME 312	Biocomputing	3
BME 313	Bioinstrumentation	3
BME 333	Biomechanics of Solids	3
BME 340	Bioimaging	3
BME 350	Biological Transport Phenomena	3
BME 401	Undergraduate Biomedical Engineering Seminar	1
BME 423	Living Systems Analysis	3
BME 498	Capstone Design I Product Development	3
BME 499	Capstone Design II	3
BME 499L	Capstone Design II Lab	0
Biomedical Engineering Electives		
Select six credit hours from the following:		6
BME 408	Biofluids	
BME 417	Engineering Analysis	
BME 420	Implant-Tissue Interactions	
BME 435	Tissue Engineering	
BME 443	Medical Image Processing	
BME 445	Biomedical Optics	
BME 446	Principles of MRI	
BME 450	Computational Neuroscience	
BME 461	Bioelectric Phenomena	
BME 471	Continuum Mechanics of Solids	
BME 480	Biomolecular Modeling	
BME 490	Special Topics in Biomedical Engineering	
BME 491	Individual Study in Biomedical Engineering [2]	
BME 494	Honors Research I [1]	
Engineering/Math/Science Electives		

Select six credit hours from the following or from the list of Biomedical Engineering electives above [3]		6
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	Introduction to Finite Element Method	
MSE 281 & 281L	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 BSBME 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

Requirements		Hours
BME 408	Biofluids	3
BME 417	Engineering Analysis	3
BME 471	Continuum Mechanics of Solids	3
ME 464	Introduction to Finite Element Method	3
Total Hours		12

Concentration in Biomaterials and Tissue Engineering

Students seeking the degree of BSBME may add a concentration in Biomaterials/Tissue Engineering by appropriate selections 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

Requirements		Hours
Required Courses		
BME 420	Implant-Tissue Interactions	3
BME 435	Tissue Engineering	3
MSE 281	Physical Materials I	4
Elective Courses		3
Select one of the following:		
BY 311	Molecular Genetics	
BY 330	Cell Biology	
BY 431	Principles of DNA Technology	
MSE 381	Physical Materials II	
MSE 382	Mechanical Behavior of Materials	
MSE 401	Materials Processing	
MSE 408	Nanomaterials	
MSE 413	Composite Materials	
MSE 430	Polymeric Materials	
MSE 464	Metals and Alloys	
MSE 470	Ceramic Materials	
MSE 484	Electronic, Magnetic, and Thermal Prop of Materials	
PH 487	Nanoscale Science and Applications	
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.)

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
CH 115 & CH 116	4	BY 123	4
EGR 110[1]	1	CH 117 & CH 118	4
EH 101	3	EGR 111[1]	1
MA 125	4	EH 102	3
ME 102	2	MA 126	4
	14		**16**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
BY 210	3	EGR 150	3
EGR 265	4	BME 210	3
PH 221 & 221L	4	CE 210	3
MA 260	3	EE 312	3
MSE 280	3	PH 222 & 222L	4
	17		**16**

Junior			
First Term	**Hours**	**Second Term**	**Hours**
BME 310	3	BME 333	3
BME 312	3	BME 340	3
BME 313	3	BME 350	3
BY 409	4	BME 423	3
ME 215	3	Core Curriculum Area II: Humanities & Fine Art[4]	3
		Core Curriculum Area IV: Social & Behavioral Science[4]	3
	16		**18**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
BME 498	3	BME 499	3
BME 401[5]	1	Biomedical Engineering Elective (400 level)	3
Math/Science/Engineering/ Biomedical Engineering Elective[2,3]	3	Core Curriculum Area II: Humanities & Fine Art[4]	3
Math/Science/Engineering/ Biomedical Engineering Elective[2,3]	3	Core Curriculum Area IV: Social & Behavorial Science[4]	3
Core Curriculum Area II: Humanities & Fine Art[4]	3	Core Curriculum Area IV: Social & Behavorial Science[4]	3
Biomedical Engineering Elective (400 Level)	3		
	16		**15**

Total credit hours: 128

1 Transfer students may substitute EGR 200 for EGR 110 and EGR 111.

2 Can substitute MA 227 and MA 252 for EGR 265 and one Math/Science/Engineering/Biomedical Engineering Elective.

3 Students using this curriculum as a pre-health professional program (pre-med, pre-dental, or pre-optometry) may use CH 237, CH 238 or CH 460 for this elective.

4 Please refer to the Core Curriculum as specified for engineering majors.

5 Seminar may be taken during any semester.

Department of Civil, Construction, and Environmental Engineering

Chair: Fouad H. Fouad

The Department of Civil, Construction, and Environmental Engineering offers a broad-based program in civil engineering, which covers mechanics and structures, soils, surveying, transportation, water resources, environmental engineering, and construction engineering management. Computer applications are emphasized in all areas. The program is based on a strong foundation of mathematics, physical sciences, humanities, and social sciences and is supported by a series of basic courses from other engineering disciplines. The primary objective of the program is to prepare students for entry into the civil engineering profession as a design engineer. The Civil, Construction, and Environmental Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org

Electives in the academic program may be selected from courses in structural engineering, construction engineering management, environmental engineering, geotechnical engineering, and transportation engineering. These courses allow students to emphasize a particular area in their undergraduate academic program. Judicious selection of these electives may be used as additional preparation for a specific design career or for entry into a specialized civil engineering certificate or engineering graduate program.

Qualified, motivated undergraduate students may also participate in the Departmental Honors Program.

Vision

To become a department of top choice for civil engineering students, faculty and industry partners wanting/aspiring to a real world experience in a metropolitan setting.

Mission

Our mission is to advance civil engineering knowledge through innovative, rigorous and practice-based education, research and outreach to better serve our students, community and society at large.

Educational Objectives

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

Requirements		Hours
General Chemistry Requirement		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
Required Courses		
EE 312	Electrical Systems	3

EGR 110 & EGR 111	Introduction to Engineering I and Introduction to Engineering II	2
or EGR 200	Introduction to Engineering Design	
EGR 150	Computer Methods in Engineering	3
EGR 265	Math Tools for Engineering Problem Solving	4
EH 300	Engineering Communication	2
MA 126	Calculus II	4
ME 102	Engineering Graphics	2
ME 251	Introduction to Thermal Sciences	2
Total Hours		30

Major Requirements For Civil Engineering

Requirements		Hours
Required Engineering Courses		
CE 200	Engineering Geology	2
CE 210	Statics	3
CE 220	Mechanics of Solids	3
CE 221	Mechanics of Solids Laboratory	1
CE 222	Civil Engineering Materials Laboratory	1
CE 230 & 230L	Plane Surveying and Plane Surveying Laboratory	3
CE 236 & 236L	Environmental Engineering and Environmental Engineering Laboratory	3
CE 332 & 332L	Soil Engineering and Soil Engineering Laboratory	4
CE 337	Hydraulics	3
CE 344	Civil Engineering Analysis I	3
CE 345	Transportation Engineering	3
CE 360	Structural Analysis	3
CE 395	Engineering Economics	3
CE 430	Water Supply/Drainage Design	3
or CE 480	Introduction to Water and Wastewater Treatment	
CE 450	Structural Steel Design	3
CE 455	Reinforced Concrete Design	3
CE 497	Construction Engineering Management	3
CE 499 & 499L	Capstone Design Project and FE Exam Review	3
ME 215	Dynamics	3
Civil Engineering Electives		
Select nine hours from Civil Engineering (CE) Courses at the 400-level or above.		9
Construction Engineering Management Electives		
CE 600	Sustainable Construction	
CE 601	Construction Methods	
CE 603	Constrt 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 [1]	
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 [1]	
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

Requirements		Hours
Select three of the following courses:		9
CE 531	Energy Resources	
CE 533	Solid and Hazardous Wastes Management	
CE 534	Air Quality Modeling and Monitoring	
CE 600	Sustainable Construction	
CE 601	Construction Methods	
CE 608	Green Building Design	
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

First Term	Hours	Second Term	Hours
CH 115 & CH 116	4	CH 117 & CH 118	4
EGR 110[1]	1	EGR 111[1]	1
EH 101	3	EH 102	3
ME 102	2	MA 126	4
MA 125	4	PH 221 & 221L	4
	14		**16**

Sophomore

First Term	Hours	Second Term	Hours
CE 210	3	CE 220	3
PH 222 & 222L	4	CE 236 & 236L	3
EGR 265[2]	4	ME 215	3
Core Curriculum Area II: Humanities & Fine Art[3]	3	Core Curriculum Area II: Humanities & Fine Art[3]	3
EGR 150	3	CE 200	2
		CE 221	1
	17		**15**

Junior

First Term	Hours	Second Term	Hours
CE 230 & 230L	3	CE 222	1
CE 337	3	EE 312	3
CE 332 & 332L	4	CE 360	3
ME 251	2	CE 395	3
EH 300	2	Core Curriculum Area IV: Social & Behavioral Science[3]	3
CE 344	3	CE 345	3
	17		**16**

Senior

First Term	Hours	Second Term	Hours
CE 480[5]	3	CE 455	3
CE 497	3	CE 499 & 499L	3
CE 450	3	Civil Engineering Elective (400-Level)[4]	6
Core Curriculum Area II: Humanities & Fine Art[3]	3	Core Curriculum Area IV: Social and Behavorial Science[3]	3
Core Curriculum Area IV: Social and Behavioral Science[3]	3		
Civil Engineering Elective (400-Level)[4]	3		
	18		**15**

Total credit hours: 128

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		Hours
Required Course		
CE 497	Construction Engineering Management	3
Engineering Electives		
Select four courses from the following:		12
CE 600	Sustainable Construction	
CE 601	Construction Methods	
CE 602	Construction Contracting, Bidding, and Estimating	
CE 603	Constrt Acct & Fin Mgmt	
CE 604	International Construction Contracts and Law	
CE 605	Project Management	
CE 606	Advanced Project Management	
CE 607	Engineering Entrepreneurship	
CE 608	Green Building Design	
CE 609	Adv Topics in Engineering Law	
CE 631	Environmental Law	
CE 649	Engineering Liability	

CE 658	Engineering Management	
CE 692	CE Capstone Project	

Certificate in Environmental Engineering

Requirements		Hours
Required Course		
CE 236	Environmental Engineering (or equivalent)	3
Engineering Electives		
Select four courses from the following:		12
CE 530	Water Supply/Drainage Design	
CE 533	Solid and Hazardous Wastes Management	
CE 534	Air Quality Modeling and Monitoring	
CE 537 & 537L	Environmental Experimental Design and Field Sampling and Environmental Experimental Design and Field Sampling Lab	
CE 544	Civil Egr Analysis II	
CE 580	Introduction to Water and Wastewater Treatment	
CE 631	Environmental Law	
CE 632	Industrial Waste and Wastewater Treatment	
CE 636	Stormwater Pollution Management	
CE 638	Water and Wastewater Chemistry	
CE 639	Sediment Sources and Controls	
CE 640	Wastewater Treatment Engineering	
CE 649	Engineering Liability	
CE 658	Engineering Management	
CE 681	Environmental Chemistry	
CE 682	Water Treatment Engineering	
CE 683	Water and Wastewater Treatment Processes Lab	
CE 685	Engineering Hydrology	
CE 686	Engineering Hydrogeology	
CE 687	Stormwater Detention Pond Design	

Certificate in Geotechnical Engineering

Requirements		Hours
Required Course		
CE 332	Soil Engineering (or equivalent)	4
Engineering Electives		
Select courses from the following:		12
CE 526	Foundation Engineering	
CE 544	Civil Egr Analysis II	
CE 557	Concrete Technology	
CE 649	Engineering Liability	
CE 658	Engineering Management	
CE 690	Special Topics in (Area)	

Certificate in Structural Engineering

Requirements		Hours
Required Course		
CE 360	Structural Analysis	3
Engineering Electives		
Select electives from the following list to earn 12 semester hours:		12
Structural Analysis Electives (Minimum 3 Hours)		
CE 516	Mechanical Vibrations	
CE 520	Advanced Mechanics	
CE 560	Structural Mechanics	
CE 561	Introduction to the Finite Element Method	
CE 562	Advanced Structural Analysis	
CE 564	Structural Dynamics	
CE 612	Theory of Elasticity	
CE 615	Theory of Elastic Stability	
CE 617	Theory of Plates and Shells	
CE 662	Advanced Structural Analysis	
CE 663	Finite Element Methods	
Structural Design Electives (Minimum 3 Hours)		
CE 526	Foundation Engineering	
CE 553	Design of Wood Structures	
CE 554	Design of Masonry Structures	
CE 556	Prestressed Concrete Design	
CE 567	Wind and Seismic Loads	
CE 568	Bridge Engineering	
CE 650	Advanced Structural Steel	
CE 655	Advanced Reinforced Concrete	
Other Electives (Maximum 3 Hours)		
CE 542	Hwy Materials and Construction [1]	
CE 557	Concrete Technology	
CE 649	Engineering Liability [1]	
CE 658	Engineering Management [1]	

[1] Only one of these courses may be applied to this certificate.

Certificate in Sustainable Engineering Management

Requirements		Hours
Required Course		
CE 497	Construction Engineering Management	3
Elective Courses		
CE 600	Sustainable Construction	3
CE 602	Construction Contracting, Bidding, and Estimating	3
CE 608	Green Building Design	3
CE 604	International Construction Contracts and Law	3
CE 609	Adv Topics in Engineering Law	3

Certificate in Transportation Engineering

Requirements		Hours
Required Course		
CE 345	Transportation Engineering	3
Engineering Electives		
Select courses from the following:		12
CE 542	Hwy Materials and Construction	
CE 543	Pavement Design & Construction	
CE 544	Civil Egr Analysis II	
CE 557	Concrete Technology	
CE 568	Bridge Engineering	
CE 622	Traffic Flow Theory	
CE 623	Non-Motorized Transportation Design and Planning	
CE 624	Simulation Models for Transportation Applications	
CE 625	Intelligent Transportation Systems	
CE 646	Traffic Engineering Operations	
CE 648	Urban and Transportation Planning	

CE 649	Engineering Liability [1]
CE 658	Engineering Management [1]

[1] Only one of these courses may be applied to this certificate.

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		Hours
General Chemistry Requirement		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
Required Courses		
EGR 150	Computer Methods in Engineering	3
CE 210	Statics	3
EE 312	Electrical Systems	3
EGR 110 & EGR 111	Introduction to Engineering I and Introduction to Engineering II	2
or EGR 200	Introduction to Engineering Design	
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		27

Major Requirements For Electrical Engineering

Requirements		Hours
Required Electrical Engineering Courses		
EE 210	Digital Logic	3
EE 233	Engineering Programming Methods	3
EE 254	Applied Numerical Methods	3
EE 300	Engineering Problem Solving II	3
EE 316 & 316L	Electrical Networks and Electrical Networks Laboratory	4
EE 318	Methods of System Analysis	3
EE 333	Engineering Programming Using Objects	3
EE 337 & 337L	Introduction to Microprocessors and Introduction to Microprocessors Laboratory	4
EE 341	Electromagnetics	3
EE 351 & 351L	Electronics and Electronics Laboratory	4
EE 361 & 361L	Machinery I and Machinery I Laboratory	4
EE 421	Communication Systems	3
EE 426	Control Systems	3
EE 431	Analog Integrated Electronics	4
EE 485	Engineering Operations	3
EE 497	Team Design Project	3
or EE 499	Team Design Project II	
Electrical Engineering Electives		
Select four courses from the following:		12
EE 418	Wireless Communications	
EE 423	Digital Signal Processing	
EE 427	Industrial Control	
EE 432	Introduction to Computer Networking	
EE 433	Engineering Software Solutions	
EE 437	Microprocessor Applications	
EE 442	Computer Networking Protocols	
EE 444	Real-Time Process & Protocols	
EE 447	Internet/Intranet Application Development	
EE 448	Software Engineering Projects	
EE 452	VHDL Digital Systems Design	
EE 458	Medical Instrumentation	
EE 461	Machinery II	
EE 471	Power Systems I	
EE 472	Power Systems II	
EE 473	Protective Relaying of Power Systems	
EE 490	Special Topics in (Area)	
EE 491	Special Problems in (Area)	

EE 498	Team Design Project I (Only for students who take EE 499 to fulfill senior design requirement)	
Total Hours		65

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:

Requirements		Hours
EE 421	Communication Systems	3
EE 426	Control Systems	3
EE 431	Analog Integrated Electronics	4
EE 497	Team Design Project	3
or EE 499	Team Design Project II	
Twelve hours of EE 400-level electives		12
Total Hours		25

Curriculum for the Bachelor of Science in Electrical Engineering (B.S.E.E.)

Freshman

First Term	Hours	Second Term	Hours
CH 115 & CH 116	4	EE 210	3
EH 101	3	EGR 111[1]	1
EGR 110[1]	1	EH 102	3
MA 125	4	MA 126	4
ME 102	2	PH 221 & 221L	4
		EGR 150	3
	14		**18**

Sophomore

First Term	Hours	Second Term	Hours
EE 312	3	EE 233	3
EGR 265[2]	4	EE 316 & 316L	4
CE 210	3	EE 300	3
PH 222 & 222L	4	ME 251	2
Core Curriculum Area II or IV[3]	3	Core Curriculum Area II or IV[3]	3
	17		**15**

Junior

First Term	Hours	Second Term	Hours
EE 318	3	EE 254[2]	3
EE 333	3	EE 337 & 337L	4
EE 351 & 351L	4	EE 361 & 361L	4
EE 485	3	EE 341	3
Core Curriculum Area II or IV[3]	3	Core Curriculum Area II or IV[3]	3
	16		**17**

Senior

First Term	Hours	Second Term	Hours
EE 426	3	EE 421	3
Electrical Engineering Elective (400 level)[4]	9	EE 431	4
Core Curriculum Area II or IV[3]	3	EE 497 or 499	3
		Electrical Engineering Elective (400 level)[4]	3
		Core Curriculum Area II or IV[3]	3
	15		**16**

Total credit hours: 128

1 Only first term freshman take EGR 110/ EGR 111. All others take EGR 200 (a 2-hour course).

2 Curriculum change in 2008: Students can substitute MA 227 and MA 252 for EGR 265 and EE 254.

3 Core Curriculum Area II: Humanities & Fine Art or Area IV: Social & Behavioral Science. Please refer to the Core Curriculum as specified for Engineering majors.

4 Must be chosen from the approved list of electives.

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.

Requirements		Hours
General Chemistry Requirement		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
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 & EGR 111	Introduction to Engineering I and Introduction to Engineering II	2
or EGR 200	Introduction to Engineering Design	
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

Requirements		Hours
Required Materials Engineering Courses		
MSE 280	Engineering Materials	3
MSE 281 & 281L	Physical Materials I and Physical Materials I Laboratory	4
MSE 380	Thermodynamics of Materials	3
MSE 381	Physical Materials II	3
MSE 382	Mechanical Behavior of Materials	3
MSE 401	Materials Processing	3
MSE 413	Composite Materials	3
MSE 430	Polymeric Materials	3
MSE 464 & 464L	Metals and Alloys and Metals and Alloys Laboratory	4
MSE 465 & 465L	Characterization of Materials and Characterization of Materials Laboratory	4
MSE 470 & 470L	Ceramic Materials and Ceramic Materials Laboratory	4
MSE 496	MSE Honors Seminar	1
MSE 498	Capstone Design Project I	2
MSE 499	Capstone Design Project II	3
Materials Engineering Elective		
Choose three hours of Materials Science and Engineering (MSE) courses.		3
MSE 402	Frontiers of Materials	
MSE 405	Frontiers of Automotive Materials	
MSE 407	Interpretation of Microstructure	
MSE 408	Nanomaterials	
MSE 409 & 409L	Principles of Metal Casting 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		3
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.		6
Any Biology (BY) courses BY115 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		Hours
BME 311	Biomaterials for Non-Majors	3
BME 435	Tissue Engineering	3
BME 420	Implant-Tissue Interactions	3
Total Hours		9

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		Hours
Elective Courses		
Select three from the following:		9
ME 476	Failure Analysis	
MSE 407	Interpretation of Microstructure	
MSE 409	Principles of Metal Casting	
MSE 433	Nondestructive Evaluation of Materials	
Total Hours		9

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		Hours
CH 235	Organic Chemistry I	3
CH 236	Organic Chemistry I Laboratory	1
Elective Courses		
Select two from the following:		6
ME 476	Failure Analysis	
MSE 408	Nanomaterials	
MSE 433	Nondestructive Evaluation of Materials	
Total Hours		10

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 Materials Engineering (BSMtE)

Freshman

First Term	Hours	Second Term	Hours
CH 115 & CH 116	4	EGR 111[1]	1
EGR 110[1]	1	EH 102	3
MA 125	4	CH 117 & CH 118	4
ME 102	2	PH 221 & 221L	4
EH 101	3	MA 126	4
	14		**16**

Sophomore

First Term	Hours	Second Term	Hours
CE 210	3	CE 220	3
EGR 265[2]	4	EE 312	3
MSE 280	3	ME 251	2
PH 222 & 222L	4	MSE 281 & 281L	4
Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[3]	3	EGR 150	3
		Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[3]	3
	17		**18**

Junior

First Term	Hours	Second Term	Hours
MSE 381	3	MSE 470 & 470L	4
MSE 380	3	Science/Mathematics Elective[4]	3
MSE 465 & 465L	4	MSE 464 & 464L	4
CE 344	3	Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[3]	3
MSE 401	3	MSE 382	3
	16		**17**

Senior

First Term	Hours	Second Term	Hours
MSE 498	2	MSE 499	3
Science/Math/Engineering Elective[4]	3	Science/Math/Engineering Elective[4]	3
MSE 413	3	Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[3]	3
MSE 496	1	Materials Engineering Elective[4]	3
Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[3]	6	MSE 430 & 430L	3
	15		**15**

Total credit hours: 128

1 Transfer students may substitute EGR 200 for EGR 110/EGR 111
2 Students may also take MA 227 and MA 252 for Engineering Problem Solving and either the SCI/MA or one SCI/MA/EGR elective.
3 Please refer to the Core Curriculum as specified for Engineering majors.
4 Completion of Departmental Honors Program satisfies three credits of either a Materials Engineering Elective or an Engineering/Mathematics/Science Elective.

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**. 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.

Requirements		Hours
General Chemistry Requirement		
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117	General Chemistry II	3
Required Courses		
EGR 150	Computer Methods in Engineering	3
CE 210	Statics	3
CE 220	Mechanics of Solids	3
CE 221	Mechanics of Solids Laboratory	1
CE 395	Engineering Economics	3
EE 312	Electrical Systems	3
EGR 265	Math Tools for Engineering Problem Solving	4
EGR 110 & EGR 111	Introduction to Engineering I and Introduction to Engineering II	2
or EGR 200	Introduction to Engineering Design	
MA 126	Calculus II	4
ME 102	Engineering Graphics	2
ME 215	Dynamics	3
MSE 280	Engineering Materials	3
Math/Science Elective		3
Course must be approved by ME Undergraduate Director.		3-4
MA 180	Introduction to Statistics	
MA 360	Scientific Programming	
MA 361	Mathematical Modeling	
MA 444	Vector Analysis	
MA 445	Complex Analysis	
MA 453	Transforms	
STH 301	Statistics and Design Overview	
AST 101	Astronomy of the Universe	
AST 102	Astronomy of Stellar Systems	
AST 103	Astronomy of the Solar System	
AST 105	Extraterrestrial Life	
BY 101	Topics in Contemporary Biology	
BY 123	Introductory Biology I	
ENV 108	Human Population and the Earth s Environment	
ES 101	Physical Geology	
Total Hours		47-48

Major Requirements For Mechanical Engineering

A C or better is required in any course that is a pre-requisite to another course in the ME curriculum.

Requirements		Hours
Required Mechanical Engineering Courses		
ME 241	Thermodynamics I	3
ME 242	Thermodynamics II	3
ME 321	Introduction to Fluid Mechanics	3
ME 322	Introduction to Heat Transfer	3
ME 360	Introduction to Mechatronic Systems Engineering	3

ME 361 & 361L	Thermo-Fluids Systems and Thermo-Fluids Systems Laboratory	3
ME 364	Linear Algebra and Numerical Methods	3
ME 370	Kinematics and Dynamics of Machinery	3
ME 371	Machine Design	4
MSE 401	Materials Processing	3
or ME 405	Manufacturing Processes	
ME 461 & 461L	Mechanical Systems and Mechanical Systems Laboratory	3
ME 498	Capstone Design Project I	2
ME 499	Capstone Design Project II	3
Mechanical Engineering Electives		
Three Mechanical Engineering (ME) electives: one with computer-aided engineering content, one thermal fluids elective, and one mechanical systems elective.		9
Computer Aided Engineering Courses		
ME 421	Introduction to Computational Fluid Dynamics Basics	
ME 464	Introduction to Finite Element Method	
Thermal Fluids Courses		
ME 411	Intermediate Fluid Mechanics	
ME 421	Introduction to Computational Fluid Dynamics Basics	
ME 445	Combustion	
ME 448	Internal Combustion Engines	
ME 449	Power Generation	
ME 454	Heating, Ventilating and Air Conditioning	
ME 455	Thermal-Fluid Systems Design	
Mechanical Systems Courses		
ME 430	Vehicular Dynamics	
ME 464	Introduction to Finite Element Method	
ME 475	Mechanical Vibrations	
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

First Term	Hours	Second Term	Hours
EGR 110[1]	1	EGR 150	3
EH 101	3	EGR 111[1]	1
MA 125	4	EH 102	3
CH 115 & CH 116	4	MA 126	4
ME 102	2	PH 221 & 221L	4
		Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[2]	3
	14		**18**

Sophomore

First Term	Hours	Second Term	Hours
CE 210	3	ME 215	3
EGR 265[3]	4	CE 220	3
ME 241	3	CE 221	1
PH 222 & 222L	4	ME 242	3
CH 117	3	Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[2]	3
		Math/Science Elective[4]	3
	17		**16**

Junior

First Term	Hours	Second Term	Hours
ME 321	3	ME 322	3
ME 364	3	ME 360	3
ME 370	3	ME 361 & 361L	3
MSE 280	3	ME 371	4
Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[2]	3	EE 312	3
	15		**16**

Senior

First Term	Hours	Second Term	Hours
MSE 401 or ME 405	3	ME 499	3
ME 461 & 461L	3	CE 395	3
ME 498	2	Thermal Fluids Elective[6]	3
Mechanical Systems Elective[5]	3	Computer-Aided Engineering Elective[7]	3
Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[2]	3	Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[2]	3
Core Curriculum Area II or IV: Humanities & Fine Art or Social & Behavioral Science[2]	3		
	17		**15**

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, University of Alabama at Birmingham, 1720 2nd Avenue South, Birmingham, Alabama 35294, telephone: (205) 934-8221. Admission to UAB does not guarantee admission to 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

Requirements		Hours
NTR 222	Nutrition and Health	3
NTR 232	Lifecycle Nutrition	3
NTR 320	Nutrition and the Consumer	3
NTR 330	Nutrition and Metabolism	3
NTR 420	Nutritional Genetics	3
Elective		
Select one of the following suggested courses: *		3
HE 222	Concepts of Health and Fitness	
PE 405	Nutrition and Physical Activity	
ANTH 319	Food and Culture	
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.

Requirements		Hours
Mathematics		
MA 105	Pre-Calculus Algebra	3
or MA 106	Pre-Calculus Trigonometry	

Required courses:

CDS 400	Fundamentals of Phlebotomy and Body Fluid Collection	1
MT 400	Health and Safety Management	1
MT 403	Body Fluids	1
MT 404	Body Fluid Lab	1
MT 405	Laboratory Management	3
MT 406	Laboratory Techniques	2
MT 418	Immunology	4
MT 423	Clinical Microbiology	3
MT 424	Clinical Microbiology Laboratory	1
MT 426	Instrumentation and Automation	2
MT 427	Instrumentation and Automation Laboratory	1
MT 428	Hematology I	4
MT 430	Immunohematology	4
MT 431	Immunohematology Laboratory	1
MT 432	Hematology II	4
MT 438	Infectious Diseases	3
MT 439	Infectious Diseases Laboratory	2
MT 442	Molecular Diagnostics	2
MT 443	Molecular Diagnostics Laboratory	2
MT 451	Clinical Chemistry	3
MT 452	Clinical Chemistry Laboratory	1
MT 455	Research Principles	2
MT 460	Clinical Correlations	3
MT 470	Certification Review	1
MT 495	Clinical Practice	1-12
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:

Requirements		Hours
CH 235 & CH 236	Organic Chemistry I and Organic Chemistry I Laboratory	4
BY 123	Introductory Biology I	4
BY 261	Introduction to Microbiology	4
or BY 271	Biology of Microorganisms	
BY 210	Genetics	3
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

First Term	Hours	Second Term	Hours	Summer Term	Hours
CDS 400	1	MT 423	3	MT 430	4
MT 400	1	MT 424	1	MT 431	1
MT 403	1	MT 426	2	MT 428	4
MT 404	1	MT 427	1	MT 438	3
MT 405	3	MT 442	3	MT 439	1
MT 406	2	MT 443	1		
MT 418	3				
	12		**11**		**13**

Senior

First Term	Hours	Second Term	Hours
MT 432	4	MT 470	1
MT 451	4	MT 495	1-12
MT 452	1		
MT 455	2		
MT 460	3		
	14		**2-13**

Total credit hours: 52-63

Proposed Program of Study for a Major in Medical Technology

Freshman

First Term	Hours	Second Term	Hours	Summer Term	Hours
EH 101	3	EH 102	3	CH 115 & CH 116	4
MA 105	3	MA 106	3	Core Curriculum Area II or IV: Literature or History[1]	3
HY 120	3	EH 216[1]	3		
HRP 101	2	Core Curriculum Area II: Humanities and Fine Art	3		
Core Curriculum Area IV: Social and Behavioral Science	3				
	14		**12**		**7**

Sophomore

First Term	Hours	Second Term	Hours	Summer Term	Hours
CH 117 & CH 118	4	CH 235 & CH 236	4	BY 271	4
CMST 101	3	BY 210	3	Humanities/History/Social & Behavioral Science	3
BY 123	4	MA 180	3		
Core Curriculum Area IV: Social and Behavioral Science	3				
	14		**10**		**7**

Junior

First Term	Hours	Second Term	Hours	Summer Term	Hours
CDS 400	1	MT 426	2	MT 430	4
MT 400	1	MT 427	1	MT 431	1
MT 406	2	MT 423	3	MT 428	4
MT 405[2]	3	MT 424	1	MT 438	3
MT 403	1	MT 442	3	MT 439	1
MT 404	1	MT 443	1		
MT 418	3				
	12		**11**		**13**

Senior

First Term	Hours	Second Term	Hours
MT 451	4	MT 470	1
MT 452	1	MT 495[+]	1-12
MT 432	4		
MT 460[2]	3		
MT 455[2]	2		
	14		**2-13**

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 (A=4.0) 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/nmt/150-programs/76-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		Hours
AHS 330	Health Care Systems	3
AHS 460	Research Methods	3
NMT 400	Intro to Clinical Nuclear Medicine Technology	2
NMT 404	Patient Care	2
NMT 405	Cross-Sectional Anatomy	3
NMT 410	Medical Radiation Physics	4
NMT 421 & 421L	Instrumentation I and Instrumentation I Laboratory	4
NMT 422	Instrumentation II	3
NMT 423	Computed Tomography	3
NMT 431	Nuclear Medicine Procedures I	4
NMT 432	Nuclear Medicine Procedures II	4
NMT 441	Radiation Protection and Biology	3
NMT 442	Application of Radiation Protection and Biology	1
NMT 443	Regulatory Issues	2
NMT 451	Communication Skills	1
NMT 452	Health Law for NMT	1
NMT 460	Radiochemistry and Radiopharmacy	2
NMT 461	Radiopharmacy and Pharmacology Laboratory	1
NMT 491	Clinical Practice I	5
NMT 492	Clinical Practice II	7
NMT 493	Clinical Practice III	4-10
NMT 499	Correlative Imaging	3
Total Hours		65-71

Electives

Requirements		Hours
NMT 401	Introduction to MRI Clinic	2
NMT 433	Computed Tomography Procedures	3
NMT 424	Physics/Instrumentation of Nuclear Magnetic Resonance	3
NMT 434	MRI Scanning and Sequence	3
NMT 494	CT Clinical Practice	12
NMT 495	MRI Clinical Practice	12

Prerequisites

Requirements		Hours
AHS 350	Medical Terminology for Health Professionals	3
BY 115 & BY 116	Human Anatomy and Introductory Human Physiology	8
BY 216	Pathophysiology	3
or NMT 320	Human Pathophysiology	
PH 201 & PH 202	College Physics I and College Physics II	8
or NMT 304	Physics for Technologists	
MA 180	Introduction to Statistics	3

Typical Program - Professional Phase

First Year

First Term	Hours	Second Term	Hours	Summer Term	Hours
AHS 330	3	NMT 421	3	NMT 405	3
NMT 400	2	NMT 421L	1	NMT 432	4
NMT 404	2	NMT 441	3	NMT 452	1
NMT 410	4	NMT 442	1	NMT 491	5
NMT 431	4	NMT 443	2		
		NMT 451	1		
		AHS 460	3		
	15		**14**		**13**

Second Year

First Term	Hours	Second Term	Hours
NMT 422	3	NMT 493	4-10
NMT 423	3	NMT 499	3
NMT 460	2		
NMT 461	1		

NMT 492	7				
	16		**7-13**		

Total credit hours: 65-71

Proposed Program of Study for a Major in Nuclear Medicine Technology

Freshman					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
EH 101	3	EH 102	3	MA 180	3
MA 105	3	MA 106	3	Core Curriculum Area II or IV: Literature or History[1]	3
CH 105 & CH 106	4	PY 101	3		
HRP 101	2	CH 107 & CH 108	4		
Core Curriculum Area II or IV: Literature or History[1]	3				
	15		**13**		**6**
Sophomore					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
BY 115 & 115L	4	BY 116 & 116L	4	AHS 350	3
PH 201	4	PH 202	4	BY 216	3
Core Curriculum Area II: Fine Arts Elective	3	SOC 100	3	Core Curriculum Area II or IV: Humanites or Social Behavioral Science Elective	3
Core Curriculum Area II or IV: Literature or History[1]	3	CMST 101	3		
	14		**14**		**9**
Junior					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
AHS 330	3	NMT 421	3	NMT 432	4
NMT 400	2	NMT 421L	1	NMT 452	1
NMT 404	2	NMT 441	3	NMT 491	5
NMT 410	4	NMT 442	1	NMT 405	3
NMT 431	4	NMT 451	1		
		NMT 443	2		
		AHS 460	3		
	15		**14**		**13**
Senior					
First Term	**Hours**	**Second Term**	**Hours**		
NMT 423	3	NMT 493	4-10		
NMT 422	3	NMT 499	3		
NMT 460	2				
NMT 492	7				
	15		**7-13**		

Total credit hours: 135-141

1 A six semester hour sequence in either 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 Science.

Health Services Administration

The Department of Health Services Administration sponsors programs at the doctoral, master's, and baccalaureate levels: Health Care Management.

Health Care Management

Program Director: Paustian

The undergraduate Health Care Management program was established in 1982 to provide management education opportunities for clinical health professionals. Currently, the program offers several curriculum options designed to meet the needs of students with differing career interests and academic backgrounds. The program is designed for aspiring leaders and committed professionals who are interested in mid-level management careers in the healthcare industry. Job opportunities exist in many types of organizations, including delivery settings such as hospitals, medical group practices, ambulatory clinics, and long-term care; managed care, insurance, and pharmaceutical companies; consulting firms, government agencies, and many others. The Health Care Management degree becomes the terminal degree for some individuals and permits entry to graduate and professional degree programs for others.

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		
Select one of the following:		3
MA 110	Finite Mathematics (Only accepted with approval from the Program Director for the Clinical Manager Track)	
MA 105	Pre-Calculus Algebra (or higher)	
Required Courses [1]		
AHS 318	Law for Health Care Professionals	3
or HCM 318	Law for Health Care Professionals	
AHS 320	Microcomputer Applications for Health Care Profess	3
AHS 330	Health Care Systems	3
or HCM 330	Health Care Systems	
AHS 350	Medical Terminology for Health Professionals	3
AHS 360	Statistics for Healthcare Managers	3
or HCM 360	Statistics for Managers	
AHS 375	Managerial Epidemiology	3
or HCM 375	Managerial Epidemiology	
AHS 401	Organizational Studies in Health Care	4
or HCM 401	Organizational Studies in Health Care	
AHS 402	Economics for Healthcare Managers	3
or HCM 402	Economics for Healthcare Managers	
AHS 403	Operations Management in Health Care Organizations	4
or HCM 403	Operations Management in Health Care Organizations	
AHS 405	Human Resources Management in Health Care Organizations	4
or HCM 405	Human Resource Managment in Health Care Organizations	
AHS 407	Strategic Management in Health Care Organizations	3
or HCM 407	Strategic Management in Health Care Organizations	
AHS 411	Bio-Psycho-Social Issues of Aging	3
or HCM 411	Biological, Psychological, and Sociological Issues of Aging	
AHS 415	Ethics for the Health Professional	3
or HCM 415	Ethics for Health Care Professionals	
AHS 416	Financial Management in Health Care Organizations	3
or HCM 416	Financial Management in Health Care Organizations	
AHS 435	Survey of Clinical and Administrative Information Systems	3
or HCM 435	Clinical and Administrative Information Systems	
AHS 450	Quality Management in Health Care	3
or HCM 450	Quality Management in Health Care	
AHS 460	Research Methods	3
or HCM 460	Research Methods	
AHS 480	Health Care Policy and Reform	3
or HCM 480	Health Care Policy and Reform	
AHS 481	Management Internship/SL	3-6
or HCM 481	Health Care Management Internship	
Electives		
AHS 302	Principles of Management in Health Care	3
or HCM 302	Principles of Management in Health Care	
AHS 482	Current Issues Seminar	3
or HCM 482	Current Issues in Health Care Seminar	
HCM 550	Healthcare Lean Six Sigma Green Belt Seminar	
AHS 590	Leadership Skills for Health Professionals	3
or HCM 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	3

AC 201	Principles of Accounting II	3
or BUS 310	Accounting and Finance for Nonbusiness Majors	

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

Freshman					
First Term	**Hours**	**Second Term**	**Hours**		
EH 101	3	EH 102	3		
MA 105 or 110	3	CMST 101	3		
HRP 101	2	Core Curriculum Area III: Natural Science	4		
Core Curriculum Area II: Fine Arts	3	Core Curriculum Area IV: Social and Behavioral Science	3		
Core Curriculum Area IV: History[1]	3				
	14		**13**		
Sophomore					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
AC 200	3	AC 201	3	AHS 330 or HCM 330	3
Core Curriculum Area II: Literature	3	Core Area II Literature	3	Elective	3
Core Curriculum Area IV: Social and Behavioral Science	3	Core Curriculum Area IV: Social and Behavioral Science	3		
Elective	3	AHS 320	3		
		Electives	3		
	12		**15**		**6**
Junior					
First Term	**Hours**	**Second Term**	**Hours**	**Summer Term**	**Hours**
AHS 318 or HCM 318	3	AHS 401 or HCM 401	4	AHS 402 or HCM 402	3
AHS 350	3	AHS 416 or HCM 416	3	AHS 403 or HCM 403	4
AHS 360 or HCM 360	3	AHS 435 or HCM 435	3	AHS 450 or HCM 450	3
AHS 375 or HCM 375	3	AHS 460 or HCM 460	3	AHS 480 or HCM 480	3
	12		**13**		**13**
Senior					
First Term	**Hours**	**Second Term**	**Hours**		
AHS 405 or HCM 405	4	AHS 481 or HCM 481	3-6		
AHS 407 or HCM 407	3				
AHS 411 or HCM 411	3				
AHS 415 or HCM 415	3				
	13		**3-6**		

Total credit hours: 114-117

1 A six semester hour sequence in literature or history is required; if a second literature is chosen it will apply as three of the elective hours in Core Curriculum Area II: Humanities and Fine Art; if a second history is chosen it will apply as three of the elective hours in Core Curriculum Area IV: Social and Behavioral Sciences

The Health Care Management program offers minor options for undergraduate students upon approval from the HCM program director.

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.

Requirements		**Hours**
Select one of the following courses:		3
AHS 318	Law for Health Care Professionals (prerequisite course requirement)	
HCM 318	Law for Health Care Professionals	
LS 246	Legal Environment of Business	
Required Courses:		
AHS 350	Medical Terminology for Health Professionals	3
HIM 318	Survey of Human Anatomy and Physiology for Coding	4
HIM 417	Pathology for Coders	3
HIM 418	Documentation Standards for Health Data	3
HIM 455	Reimbursement and Regulatory Requirements for HIM	3
HIM 441	Diagnostic Coding for Health Care Organizations	3
HIM 460	Coding/Classification Systems	3
Total Hours		25

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

Requirements		Hours
AHS 330	Health Care Systems	3
AHS 401	Organizational Studies in Health Care	4
AHS 403	Operations Management in Health Care Organizations	4
AHS 405	Human Resources Management in Health Care Organizations	4
AHS 407	Strategic Management in Health Care Organizations	3
AHS 415	Ethics for the Health Professional	3
Total Hours		21

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.

Requirements		Hours
AHS 318	Law for Health Care Professionals (or HCM 318) [1]	3
or LS 246	Legal Environment of Business	
AHS 330	Health Care Systems	3
or HCM 330	Health Care Systems	
AHS 425	Healthcare Reimbursement Methods	3
or HCM 425	Healthcare Reimbursement Methods	
AHS 435	Survey of Clinical and Administrative Information Systems	3
or HCM 435	Clinical and Administrative Information Systems	
HIM 418	Documentation Standards for Health Data	3
HIM 425	Epidemiology and Applied Statistics in Health Care Organizations	3
HIM 458	Clinical Terminology and Vocabulary	2
HIM 475	Electronic Health Records	3

[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).

Student Learning Outcomes

The BSN Curriculum is designed to prepare graduates for entry into professional nursing practice. This foundation offers both academic and professional nursing courses that provide the base for clinical competence and informed judgments about health care situations and care of patients in both in- and out-patient settings. The curriculum prepares nurses to:

- Apply knowledge from diverse liberal arts educational content to generalist nursing care principles and practice experiences.
- Incorporate a basic understanding of organizational systems and the application of knowledge and skills needed to provide safe, quality care to individual patients and to function as part of an interprofessional team.
- Participate in and utilize structure, process, and outcome measures to evaluate the implementation of patient safety and quality improvement initiatives.
- Demonstrate and understanding of the basic elements of the evidence-based practice and participate in the retrieval, appraisal, and application of best practices.
- Demonstrate skills in the ethical use of hearlthcare information communication technology (ICT) and how technology supports safe practice and examination of patient data for outcome analysis.
- Demonstrate skills in the ethical use of healthcare policy, advocacy, global health, legal, and regulatory issues as factors that may influence hearlthcare delivery and practice.
- Ulitize effective intra and interprofessional communication skills to advocate for evidence-based, holistic care as a member of the hearlthcare team.
- Assess determinants of hearlth in relation to multiple factors (genetics, environmental exposure, family history, individual hearlth, and hearlth preferences) to guide and advocate for the delivery of hearlth promotion/disease prevention strategies.
- Apply knowledge of nursing history, nursing history, nursing standards, ad one's own beliefs and values to the application of professional nursing behaviors, communication, and actions.
- Practice safe, evidence-based, compassionate, holistic, and patient and family centered care applying knowledge of leadership and healthcare delivery for individuals and communities.

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 Heart Association's Healthcare Provider Course (Course C or BLSC)
- American Red Cross' Professional Rescuer Course
- 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.

Pre-Nursing Requirements for the Traditional BSN

Requirements		Hours
Required Pre-Nursing Courses		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
BY 261	Introduction to Microbiology	4
NTR 222	Nutrition and Health	3
Statistics		
Select one of the following courses:		3
MA 180	Introduction to Statistics	
PY 214	Elementary Statistical Methods and Design	
QM 214	Quantitative Analysis I	
JS 120	Introduction to Statistics	
Total Hours		18

Requirements for Major in Nursing

Requirements		Hours
Required Nursing Courses		
NUR 310	Concepts of Professional Nursing	3
NUR 311L	Nursing Skills Development I	2
NUR 313L	Concepts of Professional Nursing Practicum	2
NUR 312L	Health Assessment Across the Lifespan	2
NUR 315	Population Focused Health Care	2
NUR 314	Pharmacotherapy & Disease Process I	2
NUR 326	Concepts in Adult Health Nursing I	3
NUR 327L	Concepts of Adult Health Nursing I Practicum	2
NUR 322	Concepts of Behavioral Health Nursing	3
NUR 323L	Concepts of Behavioral Health Nursing Practicum	2
NUR 324	Pharmacotherapy & Disease Process II	3
NUR 336	Leadership	2
NUR 321L	Nursing Skills Development II	1
NUR 388	Concepts of Adult Health Nursing II	3
NUR 389L	Concepts of Adult Health Nursing II Practicum	2
NUR 392	Concepts of Maternal Child Health Nursing	4
NUR 393L	Concepts of Maternal Child Health Nursing Practicum	3
NUR 334	Pharmocotherapy & Disease Process III	2
NUR 426	Concepts of Complex Nursing	2
NUR 427L	Concepts of Complex Nursing Practicum	2
NUR 428	Concepts of Community and Public Health Nursing	2
NUR 429L	Concepts of Community and Public Health Nursing Practicum	2
NUR 409	Healthcare and Information Technology	2
NUR 410	Evidence-Based Practice in Nursing	2
NUR 431L	Nursing Skills Development III	1
NUR 447L	Synthesis and Assimilation Practicum	4
NUR 449	Synthesis Review Course	1
NUR 448	Transition to Professional Nursing Practice	2
Total Hours		63

Additional Requirements

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		Hours
BY 115 & 115L	Human Anatomy and Human Anatomy Laboratory	4
BY 116 & 116L	Introductory Human Physiology and Introductory Human Physiology Laboratory	4
BY 261 & 261L	Introduction to Microbiology and Introduction to Microbiology Laboratory	4
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory	4
CH 107 & CH 108	Introductory Chemistry II and Introductory Chemistry II Laboratory [1]	4
EH 101	English Composition I	3
EH 102	English Composition II	3
MA 105	Pre-Calculus Algebra	3
PY 212	Developmental Psychology	3
NTR 222	Nutrition and Health	3
MA 180	Introduction to Statistics	3
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

Requirements		Hours
Arts		3
History [1]		6
Humanities		3
Literature [1]		3
Elective, Core Curriculum Area II		3
Elective, Core Curriculum Area IV		3
NUR 100	Student Success in Nursing (or other approved Freshman Year Experience course.)	2

[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

Requirements		Hours
NUR 310	Concepts of Professional Nursing	3
NUR 311L	Nursing Skills Development I	2
NUR 312L	Health Assessment Across the Lifespan	2
NUR 313L	Concepts of Professional Nursing Practicum	2
NUR 314	Pharmacotherapy & Disease Process I	2
NUR 315	Population Focused Health Care	2
NUR 321L	Nursing Skills Development II	1
NUR 322	Concepts of Behavioral Health Nursing	3
NUR 323L	Concepts of Behavioral Health Nursing Practicum	2
NUR 324	Pharmacotherapy & Disease Process II	3
NUR 326	Concepts in Adult Health Nursing I	3
NUR 327L	Concepts of Adult Health Nursing I Practicum	2
NUR 334	Pharmacotherapy Disease Process III	2
NUR 336	Leadership	2
NUR 388	Concepts of Adult Health Nursing II	3
NUR 389L	Concepts of Adult Health Nursing II Practicum	2
NUR 392	Concepts of Maternal Child Health Nursing	4
NUR 393L	Concepts of Maternal Child Health Nursing Practicum	3
NUR 409	Healthcare and Information Technology	2
NUR 410	Evidence-Based Practice in Nursing	2
NUR 426	Concepts of Complex Nursing	2
NUR 427L	Concepts of Complex Nursing Practicum	2
NUR 428	Concepts of Community and Public Health Nursing	2
NUR 429L	Concepts of Community and Public Health Nursing Practicum	2
NUR 431L	Nursing Skills Development III	1
NUR 447L	Synthesis and Assimilation Practicum	4
NUR 448	Transition to Professional Nursing Practice	2
NUR 449	Synthesis Review Course	1
NUR 368	Honors Seminar I: Introduction in Nursing Scholarship and Informatics [1]	1
NUR 484	Honors Seminar II: Service Learning Project Development/SL [1]	3
NUR 486	Honors Seminar III: Project Implementation and Dissemination [1]	3
Nursing Elective		3

Second Degree BSN Students Course Requirements

- **Traditional Entry** http://www.uab.edu/nursing/home/student-information/acad-prog/bsn
- **Accelerated Entry** 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/ 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:

Requirements		Hours
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
BY 261	Introduction to Microbiology	4
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory [1]	4
CH 107 & CH 108	Introductory Chemistry II and Introductory Chemistry II Laboratory [1]	4
MA 105	Pre-Calculus Algebra	3
or MA 110	Finite Mathematics	
PY 212	Developmental Psychology	3
NTR 222	Nutrition and Health	3
Statistics		3
MA 180	Introduction to Statistics	
PY 216	Elementary Statistical Methods	
QM 214	Quantitative Analysis I	
JS 120	Introduction to Statistics	
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.

Freshman

First Term	Hours	Second Term	Hours
EH 101	3	EH 102	3
MA 110 or 105	3	BY 115	4
CH 105 & CH 106	4	CH 107 & CH 108	4
PY 101	3	Core Curriculum Area IV: History	3
	13		**14**

Sophomore

First Term	Hours	Second Term	Hours
BY 116	4	BY 261	4
MA 180 or PY 216	3-4	NTR 222	3
Core Curriculum Area II: Literature	3	PY 212	3
Core Curriculum Area II: Fine Arts	3	Core Curriculum Area II: Humanities (Literature for sequence)	3
Core Curriculum Area II: Humanities	3	Core Curriculum Area IV: Social and Behavioral Science (History for sequence)	3
	16-17		**16**

Junior

First Term	Hours	Second Term	Hours	Summer Term	Hours
NUR 310	3	NUR 326	3	NUR 388	3
NUR 311L	2	NUR 327L	2	NUR 389L	2
NUR 313L	2	NUR 322	3	NUR 392	4
NUR 312L	2	NUR 323L	2	NUR 393L	3
NUR 315	2	NUR 324	3	NUR 334	2
NUR 314	2	NUR 336	2		

		NUR 321L	1	
	13		**16**	**14**
Senior				
First Term	**Hours**	**Second Term**	**Hours**	
NUR 426	2	NUR 447L	4	
NUR 427L	2	NUR 449	1	
NUR 428	2	NUR 448	2	
NUR 429L	2	NUR Elective	3	
NUR 409	2			
NUR 410	2			
NUR 431L	1			
	13		**10**	

Total credit hours: 125-126

1 The nursing elective may be taken any term prior to graduate but the recommended time is for the summer semester between the Junior and Senior year.

Honors in Nursing

Purpose

To offer students in nursing an opportunity to develop additional skills in clinical nursing research or innovative clinical practice as preparation for a professional nursing career and/or graduate study in nursing.

Eligibility

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.

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.” Students who complete requirements for the UAB Honors Program and the School of Nursing Honors program will graduate “With University 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: jukkalaa@uab.edu

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. Admission GPA will be determined by overall GPA or the last 60 hours of coursework, or the Foundation GPA.
- A grade of at least “C” in Human Anatomy, Human Physiology, Microbiology, and Descriptive Statistics. There are no time limits on general studies courses for RN Mobility students.
- 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.
- Advisement with the Student Nurse Recruiter at the School of Nursing (can be done before applying to UAB).
- RN-BSN Mobility students are eligible for the Honors in Nursing Program.

Admission is based upon the academic record, admission application (and all supporting documents) and space availability.

Additionally, RN Mobility students entering the RN Mobility program who have a ***Bachelor’s degree from a regionally accredited school*** with a minimum of 120 credit hours will be exempt for all general studies requirements except for Area V requirements. Students can ask for an exemption from Area V courses based on a review of transcripts and resume/ CV by the RN Mobility Program Coordinator. Descriptive

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

Requirements		Hours
Required Pre-Nursing		
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
BY 261	Introduction to Microbiology	4
PY 212	Developmental Psychology	3
Statistics		
Select one of the following courses:		3
MA 480	Introduction to Statistics	
PY 214	Elementary Statistical Methods and Design	
QM 214	Quantitative Analysis I	
JS 120	Introduction to Statistics	
Elective		
Any course not used to satisfy another requirement may be taken from any area. Recommended Courses Include:		3
NTR 222	Nutrition and Health	
SOC 100	Introduction to Sociology	
SOC 245	Contemporary Social Problems	
PHL 125	Introduction to Ethics	
Or a foreign language, especially Spanish.		
Total Hours		21

Requirements for Major in Nursing (RN-BSN Mobility)

Requirements		Hours
Required Nursing Courses		
NUR 347	Pathophysiology for Professional Nursing Practice for RNs	3
NUR 381	Informatics and Research for Nursing Practice for RNs	4
NUR 474	Transition to Professional Nursing Practice	4
NUR 475	Health Assessment Across the Lifespan for RNs	4
Required Mobility Courses		
NUR 378	Nursing of the Older Adult for RNs	3
NUR 397	Community and Public Health Nursing for RNs	4
NUR 457	Leadership and Management in Professional Nursing for RNs	3
NUR 458L	Clinical Practicum for RNs	2
Nursing Elective		
Select three hours from Nursing (NUR) courses not used to satisfy other requirements.		3
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

Requirements		Hours
BY 115	Human Anatomy	4
BY 116	Introductory Human Physiology	4
BY 261	Introduction to Microbiology	4
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory	4
EH 101	English Composition I	3
EH 102	English Composition II	3
MA 105	Pre-Calculus Algebra	3
PY 212	Developmental Psychology	3

Additional General Studies Courses

Requirements	Hours
Fine Art	3
Literature [1]	3
Humanities	3
History [1]	3
Intorduction to Psychology	
Elective from Area IV or History (If literature sequence completed, can do elective from Area IV). [1]	3
Elective from Area II or Literature (If literature sequence is completed, can do an elective from Area IV) [1]	3

[1] Students need either a 6 hour sequence in literature or history.

Professional Nursing Courses

Requirements		Hours
NUR 347	Pathophysiology for Professional Nursing Practice for RNs	3
NUR 381	Informatics and Research for Nursing Practice for RNs	4
NUR 378	Nursing of the Older Adult for RNs	3
NUR 397	Community and Public Health Nursing for RNs	4
NUR 457	Leadership and Management in Professional Nursing for RNs [2]	3
NUR 458L	Clinical Practicum for RNs	2
NUR 474	Transition to Professional Nursing Practice [1]	4
NUR 475	Health Assessment Across the Lifespan for RNs	4
Nursing Elective [2]		3

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 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

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 studies. (November 2013)

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

Requirements		Hours
First Year Experience (for students entering UAB w/ less than 24 credit hours earned)		
PUH 101	Prepare, Promote and Prevent	1
Public Health Core Classes (39 hours)		
PUH 201	The Origins of Epidemics: How Public Health Defines Population and Nations	3
PUH 202	Introduction to Global Health	3
PUH 204	Health Meets Life: Sex, Drugs, Weight, and other Health Behaviors	3
PUH 210	Biological Basis of Public health	3
PUH 250	Biostatistics	3
PUH 300	Environmental Factors in Public Health,Environment Factors in Public Health	3
PUH 302	Epid: Beyond the Outbreak	3
PUH 306	Information Literacy and Communication in Public Health	3
PUH 307	Public Health Systems	3
PUH 309	Health Disparities in Diverse Populations	3
PUH 405	Managing Public Health Programs	3
PUH 493	Public Health Service Learning	3
PUH 495	Public Health Capstone Experience	3
Total Hours		40

Click the following link to view undergraduate Public Health Electives: http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory

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

Requirements		Hours
ENH 300	Toxicology: Poisons, People and the Environment	3
ENH 301	The Workplace Environment and Worker Safety and Health	3
ENH 310	Environmentalism, Environmental Justice, and Ethics	3
ENH Electives [1]		12
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

Requirements		Hours
GHS 401	Global Communicable Disease Challenges	3
GHS 301	The Rise of Non-Communicable Diseases Globally	3
GHS 302	Introduction to International Development	3
GHS 303	Food Security and Nutrition: Local, National and Global Issues	3
GHS 402	Global Health Cases	3
GHS Elective [1]		6
Total Hours		21

[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

Requirements		Hours
HCO 305	The History and Consequences of World Disasters	3
HCO 306	Public Health Preparedness and Response Capabilities	3
HCO 340	Disaster and Emergency Management	3
HCO 341	Public Health Preparedness and Emergency Management: Law, Policy, and Planning	3
HCO 405	Issues in Emergency Preparedness: Ethics and Vulnerable Populations	3
HCO 406	Emeregency Preparedness Training, Exercises and Improvement Planning	3
HCO 407	Preparedness, Response, and Recovery Systems: Preparedness Capstone Course	3
Total Hours		21

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

Requirements		Hours
Required Public Health Courses		
PUH 201	The Origins of Epidemics: How Public Health Defines Population and Nations	3
PUH 202	Introduction to Global Health	3
PUH 302	Epid: Beyond the Outbreak	3
Elective Courses		
Any Public Health Undergraduate Elective Courses [1]		3
Select two courses from any college or school within the University.		6
Total Hours		18

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.

Freshman			
First Term	**Hours**	**Second Term**	**Hours**
FYE		EH 102	3
EH 101	3	BY 101	3
MA 105	3	BY 102	1
CH 105	3	Core Area IV course	
CH 106	1	Core Area II course	
Core Area II course		Core Area IV course	
	10		**7**
Sophomore			
First Term	**Hours**	**Second Term**	**Hours**
PUH 201	3	PUH 204	3
PUH 202	3	PUH 250	3
Core II Area course		Core Area II course	
Core Area IV course		Core Area IV course	
General Elective		General Elective	
	6		**6**
Junior			
First Term	**Hours**	**Second Term**	**Hours**
PUH 210	3	PUH 302	3
PUH 300	3	PUH 306	3
Concentration course		Concentration course	
Concentration course		Concentration course	

General Elective		General Elective	
	6		**6**
Senior			
First Term	**Hours**	**Second Term**	**Hours**
PUH 309	3	PUH 493	3
PUH 307	3	PUH 495	3
Concentration course		PUH 405	3
Concentration course		Concentration course	
General Elective		General Elective	
	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.

Requirements		Hours
EH 101	English Composition I	3
EH 102	English Composition II	3

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:

Requirements		Hours
AAS 200	Introduction to African-American Studies	3
ARA 101	Introductory Arabic I	3
ARA 102	Introductory Arabic II	3
ARH 101	The Art Experience	3
ARH 203	Ancient and Medieval Art	3
ARH 204	Renaissance through Modern Art	3
ARH 206	Survey of Asian Art	3
CHI 101	Introductory Chinese I	3
CHI 102	Introductory Chinese II	3
CMST 101	Public Speaking	3
EH 216	Introduction to Literature	3
EH 217	World Literature I: Before 1660	3
EH 218	World Literature II: 1660-Present	3
EH 221	British and Irish Literature I: Before 1800	3
EH 222	British and Irish Literature II: 1800-Present	3
EH 223	American Literature I: Before 1865	3
EH 224	American Literature II: 1865-Present	3
FLL 120	Foreign Cultures	3
FLL 220	Foreign Literatures in English Translation	3
FR 101	Introductory French I	4
FR 102	Introductory French II	4
FR 108	Introductory Intensive French	4
FR 201	Intermediate French I	3
FR 202	Intermediate French II	3
GN 101	Introductory German I	4
GN 102	Introductory German II	4
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN 204	Readings in German Literature	3
ITL 101	Introductory Italian I	3
ITL 102	Introductory Italian II	3
JPA 101	Introductory Japanese I	3
JPA 102	Introductory Japanese II	3
MU 120	Music Appreciation	3
PHL 100	Introduction to Philosophy	3
PHL 115	Contemporary Moral Issues	3
PHL 116	Bioethics	3
PHL 120	Practical Reasoning	3
PHL 125	Introduction to Ethics	3
PHL 203	Philosophy of Religion	3
SPA 101	Introductory Spanish I /QL	4
SPA 102	Introductory Spanish II	4
SPA 108	Introductory Intensive Spanish	4
SPA 201	Intermediate Spanish I	3
SPA 202	Intermediate Spanish II	3
THR 100	Introduction to the Theatre	3
THR 105	Introduction to Dance	3
THR 200	Plays on Film	3

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:

Requirements		Hours
AST 101 & AST 111	Astronomy of the Universe and Astronomy of the Universe Laboratory	4
AST 102 & AST 112	Astronomy of Stellar Systems and Astronomy of Stellar Systems Laboratory	4
AST 103 & AST 113	Astronomy of the Solar System and Astronomy of the Solar Systems Laboratory	4
AST 105 & AST 115	Extraterrestrial Life and Extraterrestrial Life Laboratory	4
BY 101 & BY 102	Topics in Contemporary Biology and Topics Contemporary Biology Laboratory	4
BY 111 & BY 112	Extended Topics in Contemporary Biology and Ext Topics Contemporary Biology Laboratory	4
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory	4
CH 107 & CH 108	Introductory Chemistry II and Introductory Chemistry II Laboratory	4
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4

ENV 108 & ENV 109	Human Population and the Earth s Environment and Laboratory in Environmental Science	4
ES 101 & ES 102	Physical Geology and Physical Geology Laboratory	4
ES 103 & ES 104	History of the Earth and History of the Earth Laboratory	4
MA 105	Pre-Calculus Algebra	3
MA 106	Pre-Calculus Trigonometry	3
MA 107	Precalculus Algebra and Trigonometry	4
MA 109	Survey of Calculus	3
MA 110	Finite Mathematics	3
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
MA 260	Introduction to Linear Algebra	3
PH 201	College Physics I	4
PH 202	College Physics II	4
PH 221	General Physics I	4
PH 222	General Physics II	4
PHS 101	Physical Science	4

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:

Requirements		Hours
ANTH 101	Introduction to Cultural Anthropology	3
ANTH 106	Introductory Archaeology	3
ANTH 120	Language and Culture	3
CMST 105	Introduction to Human Communication	3
EC 210	Principles of Microeconomics	3
EC 211	Principles of Macroeconomics	3
GEO 121	World Regional Geography	3
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 104	World History to 1600	3
HY 105	World History 1600 to the Present	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3
ITS 101	Introduction to International Studies	3
PSC 101	Introduction to American Government	3
PSC 102	Introduction to Comparative Politics	3
PSC 103	Introduction to International Relations	3
PSC 221	American State and Local Government	3
PY 101	Introduction to Psychology	3
PY 201	Honors Introduction to Psychology	3
PY 212	Developmental Psychology	3
SOC 100	Introduction to Sociology	3
SOC 245	Contemporary Social Problems	3
WS 100	Introduction to Women's and Gender Studies	3

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	Hours
Area I. Written Composition (p. 294)	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.

Requirements		Hours
EH 101	English Composition I	3
EH 102	English Composition II	3

Area II. Humanities and Fine Arts (p. 294)	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:

Requirements		Hours
AAS 200	Introduction to African-American Studies	3
ARA 101	Introductory Arabic I	3
ARA 102	Introductory Arabic II	3
ARH 101	The Art Experience	3
ARH 203	Ancient and Medieval Art	3
ARH 204	Renaissance through Modern Art	3
ARH 206	Survey of Asian Art	3
CHI 101	Introductory Chinese I	3
CHI 102	Introductory Chinese II	3
CMST 101	Public Speaking	3
EH 216	Introduction to Literature	3
EH 217	World Literature I: Before 1660	3
EH 218	World Literature II: 1660-Present	3
EH 221	British and Irish Literature I: Before 1800	3
EH 222	British and Irish Literature II: 1800-Present	3
EH 223	American Literature I: Before 1865	3
EH 224	American Literature II: 1865-Present	3
FLL 120	Foreign Cultures	3
FLL 220	Foreign Literatures in English Translation	3
FR 101	Introductory French I	4
FR 102	Introductory French II	4
FR 108	Introductory Intensive French	4
FR 201	Intermediate French I	3
FR 202	Intermediate French II	3
GN 101	Introductory German I	4
GN 102	Introductory German II	4
GN 201	Intermediate German I	3
GN 202	Intermediate German II	3
GN 204	Readings in German Literature	3
ITL 101	Introductory Italian I	3
ITL 102	Introductory Italian II	3
JPA 101	Introductory Japanese I	3
JPA 102	Introductory Japanese II	3
MU 120	Music Appreciation	3
PHL 100	Introduction to Philosophy	3
PHL 115	Contemporary Moral Issues	3
PHL 116	Bioethics	3
PHL 120	Practical Reasoning	3
PHL 125	Introduction to Ethics	3
PHL 203	Philosophy of Religion	3
SPA 101	Introductory Spanish I /QL	4
SPA 102	Introductory Spanish II	4
SPA 108	Introductory Intensive Spanish	4
SPA 201	Intermediate Spanish I	3
SPA 202	Intermediate Spanish II	3
THR 100	Introduction to the Theatre	3
THR 105	Introduction to Dance	3
THR 200	Plays on Film	3

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		Hours
AST 101 & AST 111	Astronomy of the Universe and Astronomy of the Universe Laboratory	4
AST 102 & AST 112	Astronomy of Stellar Systems and Astronomy of Stellar Systems Laboratory	4
AST 103 & AST 113	Astronomy of the Solar System and Astronomy of the Solar Systems Laboratory	4
AST 105 & AST 115	Extraterrestrial Life and Extraterrestrial Life Laboratory	4
BY 101 & BY 102	Topics in Contemporary Biology and Topics Contemporary Biology Laboratory	4
BY 111 & BY 112	Extended Topics in Contemporary Biology and Ext Topics Contemporary Biology Laboratory	4
BY 123	Introductory Biology I	4
BY 124	Introductory Biology II	4
CH 105 & CH 106	Introductory Chemistry I and Introductory Chemistry I Laboratory	4
CH 107 & CH 108	Introductory Chemistry II and Introductory Chemistry II Laboratory	4
CH 115 & CH 116	General Chemistry I and General Chemistry I Laboratory	4
CH 117 & CH 118	General Chemistry II and General Chemistry II Laboratory	4
ENV 108 & ENV 109	Human Population and the Earth s Environment and Laboratory in Environmental Science	4
ES 101 & ES 102	Physical Geology and Physical Geology Laboratory	4
ES 103 & ES 104	History of the Earth and History of the Earth Laboratory	4
MA 105	Pre-Calculus Algebra	3
MA 106	Pre-Calculus Trigonometry	3
MA 107	Precalculus Algebra and Trigonometry	4
MA 109	Survey of Calculus	3
MA 110	Finite Mathematics	3
MA 125	Calculus I	4
MA 126	Calculus II	4
MA 227	Calculus III	4
MA 252	Introduction to Differential Equations	3
MA 260	Introduction to Linear Algebra	3
PH 201	College Physics I	4
PH 202	College Physics II	4
PH 221	General Physics I	4
PH 222	General Physics II	4
PHS 101	Physical Science	4

Area IV. History, Social, and Behavioral Sciences (p. 294) — 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:

Requirements		Hours
ANTH 101	Introduction to Cultural Anthropology	3
ANTH 106	Introductory Archaeology	3
ANTH 120	Language and Culture	3
CMST 105	Introduction to Human Communication	3
EC 210	Principles of Microeconomics	3
EC 211	Principles of Macroeconomics	3
GEO 121	World Regional Geography	3
HY 101	Western Civilization I	3
HY 102	Western Civilization II	3
HY 104	World History to 1600	3
HY 105	World History 1600 to the Present	3
HY 120	The United States To 1877	3
HY 121	The United States Since 1877	3
ITS 101	Introduction to International Studies	3
PSC 101	Introduction to American Government	3
PSC 102	Introduction to Comparative Politics	3
PSC 103	Introduction to International Relations	3
PSC 221	American State and Local Government	3
PY 101	Introduction to Psychology	3
PY 201	Honors Introduction to Psychology	3
PY 212	Developmental Psychology	3
SOC 100	Introduction to Sociology	3
SOC 245	Contemporary Social Problems	3
WS 100	Introduction to Women's and Gender Studies	3

Area V. Pre-Professional, Pre-Major, and Elective Courses (p. 294)

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.

Total Semester Hours: 41

Course Descriptions

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 interdisciplinary 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-ancestored 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 courses 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.
African aesthetics, African cosmology, and qualities of African spirituality.

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: D]

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, Dumbar, 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 cmapus training positions in filed 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 undergradute semster. 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](Can be taken Concurrently) and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and AC 304 [Min Grade: C](Can be taken Concurrently) 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 GPAT 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 intrnational 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 GPAT 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 GPAT and GPAO 2.00) or (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 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, officership, 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

AHD-Adm Hlth Services Dsc 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 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.

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 (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 & Reglr Isse Lng Trm Cre. 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 experiental 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 Instuctor.

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 QM 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 componential 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 Archaelogy. 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 surrouding 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., Knosso; 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 anthrology 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 shoroud 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. 1550-1150/1069 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, Isreal, 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.
Biology, 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 ethnology 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 designated 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. 5,000 - 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 devloping 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 coverate of the traditional uses of drugs in indigenous societies as well as the mroe 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 scheudle 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.
Directed studies in probability and practical statistics. Descriptive and inferential statistical methods for laboratory and field research. Univariate and bivariate methods (description of distributions, single and multi-sample analysis of means, correlation, regression, non-parametric methods).

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 meaining 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 commmunicate their ideas and then write about them. Additionally, they will be exposed to some particular aspects of the cultures, cutstoms, 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 knowedge 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 boradly 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]

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 Renasissance 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.
Visual culture in eighteenth-century Britain and France, including study of eighteenth-century holdings in Birmingham Museum of Art.
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 in 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 betwen 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: C]

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 eighteen 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 Asian Art. 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, technigues, 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 nescessary to construct a finshed 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 220 [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. Intermed 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 introducted 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, pinhold 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 broadcasing.
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 encourage 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 spcae 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 artifical 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, mustic, industrial and technological developments, folk and popular culture. Specific topics vary with instructors; materials for study include culutral 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 throuh 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.
Elements of an effective health and safety management system. Implementation of Plan-Do-Check-Act (PDCA) system of continual improvement. Team management and design strategies for life cycles and acceptable, residual risk hierarchy of controls. Introduction to reliability and maintainability. Human and organizational performance learning teams. System safety procedures in procurement and change review processes.

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 as 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 ST 102 to receive credit.
Prerequisites: AST 102 [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 experiments 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, Isreal 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 pathology: cellular adaptations, tissue injury and renewal, neoplasia, environmental and nutritional pathology, 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 210. 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 310. 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 biomedical engineering.
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.
Fundamentals of light-matter interactions. Principles of biomedical optical imaging techniques including light microscopy, fluorescence imaging, confocal laser scanning microscopy, multi-photon excitation fluorescence microscopy, optical coherence tomography, super-resolution microscopy, photoacoustic tomography, and ophthalmic imaging.
Prerequisites: PH 222 [Min Grade: C] and MA 260 [Min Grade: C]

BME 446. Principles of MRI. 3 Hours.
Technical fundamentals of NMR imaging and applications. Physical fundamentals, MR imaging techniques, and clincal 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 EGR 200 [Min Grade: C]) and MA 125 [Min Grade: C] or PH 221 [Min Grade: C](Can be taken Concurrently)

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 clinents 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. Preq: 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 (GPAU 2.00 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 signifcant 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.
Prerequisites: (GPAT and GPAO 2.00 and BUS 310 [Min Grade: C] and BUS 311 [Min Grade: C]) or (GPAU 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.
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)

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 skils 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.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 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 is 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).
Prerequisites: 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).
Prerequisites: 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.
Prerequisites: 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.
Prerequisites: 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).
Prerequisites: 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.
Prerequisites: 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 genetics, molecular biology, bioinformatics, and electron microscopy. Preqs: 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 indentify 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 124 [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 organsims. 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 prosected cadavers and casted models.
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.
Natural History of the Vertebrates Lab required with 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 aspectd of the biology of the Echinodermata and Crustacea. The course fromat 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 467. Population Ecology. 3 Hours.
The course covers the structure and dynamics of populations with an emphasis on understanding how reproduction, mortality and dispersal interact to control fluctuations in population size and structure. Special emphasis will be placed on the use of computer models and interpretation of data to address specific applications in conservation biology and natural resource management. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: BY 124 [Min Grade: C]

BY 469. Molecular Ecology and Phylogenetics. 3 Hours.
Course will survey processes and patterns of molecular evolution and methods of phylogenetic analysis using DNA sequences, amino acid sequences, and molecular markers.
Prerequisites: BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

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 enviroment. 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 Verterbrate 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 contemporaty 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.

BCX 430. BACHE: Miles College. 1-6 Hour.

BCX 431. BACHE: Miles College. 1-6 Hour.

BCX 432. BACHE: Miles College. 1-6 Hour.

BCX 433. BACHE: Miles College. 1-6 Hour.

BCX 434. BACHE: Miles College. 1-6 Hour.

BCX 450. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.

BCX 451. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.

BCX 452. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.

BCX 453. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.

BCX 454. BACHE: Univ of Montevallo. 1-6 Hour.
BACHE: University of Montevallo.

BCX 470. BACHE: Samford Univ. 1-6 Hour.

BCX 471. BACHE: Samford Univ. 1-6 Hour.

BCX 472. BACHE: Samford Univ. 1-6 Hour.

BCX 473. BACHE: Samford Univ. 1-6 Hour.

BCX 474. BACHE: Samford Univ. 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 n Soc/ Behavioral Sci. 2 Hours.
The objective of this course is to introduce incoming freshmen to an edcuation 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 vocabular, 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.
Newtons laws of motion. Vector algebra. Concepts of position and moment vector. Equivalent force systems. Free body concept. Equations of equilibrium. Analysis of pin-connected trusses. Friction. Properties of surfaces. Quantitative Literacy is a significant component of this course (QEP).
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.
Variation of stress at a point. Equilibrium requirements and body force concepts. Variation of strain at a point. Strain gages and rosettes. Stress-strain relationships. Analysis of axially loaded bars, circular shafts in torsion, bending of beams, buckling of columns, and stability of rotating shafts. Analysis of simple, statically determinate and indeterminate structures.
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 courses (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 332. 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 332L. Soil Engineering Laboratory. 0 Hours.
Soil classification, strength tests, permability 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 dataanalysis. 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: D]

CE 430. Water Supply/Drainage Design. 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, economies, 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.
Properties of concrete in relation to specifying, purchasing, and evaluating concrete materials. Fresh and hardened concrete properties. Concrete mix design procedures. Effects of finishing, curing, weather conditions, and various construction procedures. Ready mix concrete production and field placement techniques. Specification writing to ensure good quality concrete and field inspection procedures. Case studies of problems in concrete construction.
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.
Concepts and applications of finite element method. Development and application of basic finite elements. Software use.
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.
Closed form and numerical solutions to single-degree-of-freedom structural models. Analysis of multistory frames. Computer applications and seismic analysis. Techniques of modal analysis.
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.
Undergrauate 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).

CE 491. Individual Study in (Area). 1-3 Hour.
Individual Study in (Area).

CE 497. Construction Engineering Management. 3 Hours.
Study of construction management services that include: project planning, scheduling, estimating, budgeting, contract administration, agreements and ethics. Emphasis is made on the management of manpower, materials, money and machinery.
Prerequisites: CE 395 [Min Grade: D]

CE 499. Capstone Design Project. 3 Hours.
Students work in teams to complete a capstone design project that incorporates the major aspects of civil engineering design including structural, geotechnical, environmental, transportation, and construction management components. The course also includes lecturing and assignments related to professionalism including engineering ethics, leadership, and management. Normally taken during last term before graduation.
Prerequisites: CE 332 [Min Grade: D] and CE 337 [Min Grade: C] and CE 345 [Min Grade: D] and (CE 450 [Min Grade: D] or CE 455 [Min Grade: D]) and CE 430 [Min Grade: D](Can be taken Concurrently) or CE 480 [Min Grade: D](Can be taken Concurrently) and CE 497 [Min Grade: D](Can be taken Concurrently)

CE 499L. FE Exam Review. 0 Hours.
Review of materials covered on the Fundamentals of Engineering (FE) Exam. This is a companion laboratory to CE 499 and must be taken concurrently. Students who do not receive a passing grade in this lab will not receive credit for CE 499.

CH-Chemistry Courses

CH 100. Chemical Problem Solving. 3 Hours.
Development of quantitative skills and introduction to basic chemical concepts to prepare students for CH 115. Successful completion of MA 098 or more advanced math, or placement in a more advanced math, is strongly recommended prior to taking this course.

CH 105. Introductory Chemistry I. 3 Hours.
Fundamental facts, principles, theory, and applications of chemistry. Qualitative in nature; for non-science majors and nursing students with no previous background in chemistry. 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: MA 098 [Min Grade: P] or MA 098 [Min Grade: C] or MA 102 [Min Grade: D](Can be taken Concurrently) or MA 105 [Min Grade: D](Can be taken Concurrently) or MA 106 [Min Grade: D](Can be taken Concurrently) or MA 107 [Min Grade: D](Can be taken Concurrently) or MA 110 [Min Grade: D](Can be taken Concurrently) or MA 125 [Min Grade: D](Can be taken Concurrently) or (A02 20 and HSCG 2.00) or A02 21 or (S02 480 and HSCG 2.00) or S02 500 or MAAD 15

CH 106. Introductory Chemistry I Laboratory. 1 Hour.
Emphasizes development of lab skills and demonstration of chemical principles covered in CH 105. 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). Concurrent enrollment in or prior completion of CH 105 strongly recommended.

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 560 and HSCG 3.00) or (S02 580 and HSCG 2.50) or S02 600 or MAC1 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 porblem-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 signficant 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.
Emphasis 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.
Structure, nomenclature, properties, and reactivity of compounds with various organic functional groups: alkanes, alkenes, alkynes, alkyl halides and alcohols. Emphasis on the mechanisms of organic reactions and problem solving. Concurrent enrollment in CH 235R Organic I Recitation required.
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 221 [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 Periodicty. 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 Periodicty. 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. Aprropriate 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 Organic 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 anabloic 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 fluorescence 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 bioanalytical 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, anticancer, 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 solutions. 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]

CH 495. Ethics in Chemical Research. 1 Hour.
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] and CH 497 [Min Grade: C](Can be taken Concurrently)

CH 497. Undergraduate Research. 3 Hours.
Research project conducted under the supervision of a faculty mentor. Two semesters are highly recommended for minimum accumulation of 6 semester hours. A progress report is required each semester and a comprehensive written report in ACS format is required at the completion of the project. Permission of instructor and chemistry academic advisor required; GPA 2.5 or greater overall; GPA 3.0 or greater in required chemistry courses.

CH 498. Chemistry Teaching Methods. 3 Hours.
This course provides chemistry majors who will be future chemistry teachers with insights into the fundamental principles of chemistry in a way that can be transported to the classroom. The course will cover all aspects of teaching, measurements of effectiveness, and outcomes. Permission of instructor required.
Prerequisites: CH 237 [Min Grade: C]

CH 499. Honors Research and Thesis. 3 Hours.
Research project conducted under the supervision of faculty mentor. Prior completion of 6 hours of CH 497 and admission to the Chemistry Honors Program. Requires approved research proposal on file with chemistry honors director. The course concludes with a written honors thesis and oral presentation and defense. Chemistry GPA 3.25 or greater; overall GPA 3.0 or greater, and permission of instructor required.
Prerequisites: CH 497 [Min Grade: C]

CHI-Chinese Courses

CHI 101. Introductory Chinese I. 3 Hours.
Essentials of language and culture needed for proficient communication. Includes basic exercises in listening comprehension, speaking, writing, and reading. Conducted in Chinese. (CORE AREA II).

CHI 102. Introductory Chinese II. 3 Hours.
Continuation of CHI 101. Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing and reading. Conducted in Chinese. (Core Area II).

CHI 190. Study Abroad: Chinese. 1-6 Hour.
Approved novice level study abroad program in a Chinese-speaking country. Course of study will vary according to array of approved offerings student interest. Permission of department chair required.

CHI 201. Independent Study: Intermediate Chinese I. 3 Hours.
Continued development of grammar, vocabulary, reading, writing and cultural proficiency. Targets intermediate range. Conducted in Chinese. (CORE AREA II).

CHI 202. Independent Study: Intermediate Chinese II. 3 Hours.
Continuation of Chinese 201. Conducted in Chinese.

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 trasportation, 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 langugae 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 offering and 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.
Semiotics and communication. Definition of sign and sign process. Cognitive processes and communication processes. Signs in communicative action.

CMST 415. Intercultural & International Communication. 3 Hours.
Communication problems in intercultural and multicultural contexts. Interpretations and otherness. Ethnocentricity and culture. Analysis of one culture interpreting another, with emphasis on modern societies.

CMST 416. Issues in Global Communication. 3 Hours.
Changes in technology and communication; from narrowcasting to networking. The global village is transformed, from Marshall McLahan to the internet. Narrowcasting and broadcasting. How did the internet change communication? Circuit switching and packet switching. Cultural changes in global communication.

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 backgrounders.
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 490. Media Citizenship. 3 Hours.
Quantitative and qualitative measures of media content in television, film, magazines, newspapers, and computing networks.

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 Topcs: 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 andpredicate 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.
Object-Oriented Programming. Complex data structures. Closures. Ties. Module development. CGI, DBI and other third-party modules. mod_perl. Networking. Persistent data. Interfacing with other languages.
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.
Underlying network technology, including IEEE 802.11. Interconnecting networks using bridges and routers. IP addresses and datagram formats. Static and dynamic routing algorithms. Control messages. Subnet and supernet extensions. UDP and TCP. File transfer protocols. E-mail and the World Wide Web. Network address translation and firewalls. Mandatory weekly Linux-based lab.
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.
Introduction to Probability and Statistics with applications in Computer Science. Counting, permutations and combinations. Probability, conditional probability, Bayes theorem. Standard probability distributions. Measures of central tendency and dispersion. Central Limit Theorem. Hypothesis testing. Random number generation. Random algorithms. Estimating probabilities by simulation.
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. Counting, permutations and combinations. Probability, conditional probability, Bayes Theorem. Standard probability distributions. Measures of central tendency and dispersion. Central Limit Theorem. Regression and correlation. Hypothesis testing. Random number generation. Random algorithms. Estimating probabilities by simulation. Genetic algorithms.
Prerequisites: CS 303 [Min Grade: C]

CS 460. Principles in Artificial Intelligence. 3 Hours.
This course will provide an introduction to fundamental concepts in the field of artificial intelligence. Topics typically covered include agents, search, logic and knowledge representation, probabilistic models, machine learning, natural language processing and perception.
Prerequisites: CS 303 [Min Grade: C] and CS 350 [Min Grade: C]

CS 462. Natural Language Processing. 3 Hours.
This course provides a broad introduction to Natural Language Processing (Computational Linguistics). Topics typically covered in this course include part-of-speech tagging, syntactic parsing, semantic analysis, speech recognition, machine translation, sequence labeling algorithms, n-gram language models, statistical parsing, grammar formalisms and treebanks.
Prerequisites: (CS 350 [Min Grade: C] and CS 355 [Min Grade: C]) or CS 460 [Min Grade: C]

CS 466. Games and Puzzles Seminar. 1 Hour.
Interfaces and Engines for games and puzzles such as Chess, Checkers, Othello, Rubik's Cube, Go, Sudoku, etc.
Prerequisites: CS 303 [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. Emphasizes practical considerations for developing efficient and accurate machine learning models, and theoretical underpinnings of different learning algorithms.
Prerequisites: (CS 355 [Min Grade: C] and CS 303 [Min Grade: C]) or CS 460 [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 MA 125 [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 recongnition and description.
Prerequisites: CS 303 [Min Grade: C]

CS 474. 3D Printing. 3 Hours.
3D Printing : design, materials, and aesthetics. Students will do projects which result in unique artifacts created by 3D printing. Multi-disciplinary teams are encouraged. Societal and legal implications.

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 Spreadshet; interfacing to an animation systems 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 experimentsand 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.

CS 493. Special Topics. 3 Hours.
Special Topics in Computer Science.

CS 494. Special Topics. 3 Hours.
Special Topics in Computer Science.

CS 495. Special Topics. 3 Hours.
Special topics in computer science.

CS 496. Research Seminar. 1 Hour.
Participation in research seminar directed by a faculty member.

CS 497. Competitive Programming Techniques. 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 499. Senior Capstone. 3 Hours.
In this course, students will discuss topics relating to ethics in Computer Science. In a software engineering project, students will work in a team to put to practice principles and techniques that they have acquired throughout the undergraduate curriculum. A series of lectures on key topics in Computer Science given by faculty members and guest lecturers will round out the course. Students take the Major Field Test in Computer Science as a requirement for completing this course.
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.

CT 402. Gynecologic Cytopathology II. 5 Hours.
Neoplasia and general criteria of malignancy; cytology of precancerous lesions and malignant tumors of the female genital tract with reference to clinical aspects, degrees, and types of tumors; effects of radiation and chemotherapy; reporting systems; rare/unusual diagnostic entities; and seminar and journal club on related topics.

CT 403. Lab Operations. 2 Hours.
Gynecologic and non-gynecologic specimen handling; routine and special preparatory techniques; special stains and ancillary diagnostic procedures; 1HC, 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 lesions 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 inclduing 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 Cytology 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 258. Clinical Rotation I. 2 Hours.

CLN 310. Primary Care Clinic II. 1 Hour.
Continuation of CLN 240. (Prerequisites OPT 231, CLN 211, CLN 221, CLN 231).

CLN 311. Primary Eye Care Clin 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. Externshp 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 Clinic 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 populaitons in an observatory/asistive 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 1. 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 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 421. Pediatric Opt. Clinic III. 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.

CLN 492. Remedial Prereq Disease Clin 2. 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 QM 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 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-the 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 intergrating 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 Studes. 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.
Economic analysis and its use in dealing with business and governmental problems. National income, price-level, employment, governmental fiscal policies, and international economics. Not open to entering freshmen. (CORE AREA IV).

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 institutions 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] and GPAU 2.00 and GPAO 2.00)

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] or EC 305 [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 multicolinearity, 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 pertain to actual institutuions 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: ECE 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 NAEYC 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 ofchildren.

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.

ECE 494. Field Work in Early Childhood Education. 4 Hours.
Observation and participation experiences with children.

ECG-Counseling, Human Services Courses

ECG 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.

ECG 152. Let's BMEN: How to successfuly Navigate the collegiate Experience. 1 Hour.
This course is design 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.

ECG 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.

ECG 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.

ECG 420. Alcoholism. 3 Hours.
Emotional, intellectual, psychological, and social aspects of alcoholism.

ECG 422. Strategy for Attitude Devlmt. 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.

ECG 423. Strategy Effective Interviewin. 3 Hours.
Selected interviewing skills described, demonstrated, and practiced in role play with feedback to increase effectiveness in interviewing.

ECG 424. Constructive Conflict Mgmnt. 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.

ECG 438. Interpersonal Skills Develop. 3 Hours.
Classroom lectures plus experiential, structured exercises in small groups for development of more effective interpersonal communication skills.

ECG 451. Issues/Helping Professions. 1-3 Hour.
Discussion of issues in the helping professions.

ECG 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]

ECG 470. Crisis Intervention Techniques. 3 Hours.
Crisis counseling theory, applications of crisis intervention, and crisis situations.

ECG 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 460. Funct Curr Spec Needs Student. 3 Hours.
Methods and strategies for teaching elementary-aged children with low incidence disabilities in an urban school setting. Prerequisites: ECT 451 and ECT 452 and ECT 453.
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]

ECY-Special Education Courses

ECY 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)

ECY 301. Behavior Management. 3 Hours.
Prerequisites: ECY 300 [Min Grade: C]

ECY 306. Communication Disorders in Children. 3 Hours.
Prerequisites: ECY 300 [Min Grade: C]

ECY 382. Meth and Mat Teach Mentally Retarded Child: Mild/Mod. 3 Hours.
Meth and Mat Teach Mentally Retarded Child: Mild/Mod.
Prerequisites: ECY 300 [Min Grade: C] and ECY 381 [Min Grade: C]

ECY 418. Assessment Procedures with the Exceptional Learner. 3 Hours.
Prerequisites: ECY 310 [Min Grade: C] and ECY 430 [Min Grade: C] or ECY 381 [Min Grade: C] and ECY 382 [Min Grade: C]

ECY 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 historyand 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

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: EDU 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 evaluation 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 reqired. 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.
Needs of children, selection of books, societal issues in children's literature, and role of media in children's literature.

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 PH 221 [Min Grade: C]

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]) and 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 PH 222 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and 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]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 421. Communication Systems. 3 Hours.
Signal and system representation in time and frequency domains. Autocorrelation and spectral density. Amplitude and angle modulation. Sampling. Noise. Lecture and 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 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.
Theory of linear feedback control systems using complex frequency techniques. Block diagram manipulation, performance measures, and stability. Analysis and design using root locus and frequency response methods. Z-transform methods and z-plane root locus.
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] and EE 351 [Min Grade: D] and (EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or ME 130 [Min Grade: C])

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 ME 130 [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]) and 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.
Modeling of generators, transformers, and transmission lines for system studies. Introduction to symmetrical components. Calculation of short-circuit currents due to balanced and unbalanced faults. Determination of interrupting ratings of circuit breakers. Transient stability of power systems. Derivation of swing equation and solution by numerical method. Equal area criterion.
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 473. Protective Relaying of Power Systems. 3 Hours.
Operating principles of protective relays. Protection of transmission lines, generators, motors, transformers, and buses.
Prerequisites: (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 361 [Min Grade: D]

EE 485. Engineering Operations. 3 Hours.
Economic, procedural, planning, and control aspects of engineering projects. Ethics and Civic Responsibility are significant components of this course (QEP).

EE 489. Undergraduate Engineering Research. 0 Hours.
Undergraduate research experiences in electrical engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [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)

EE 490. Special Topics in (Area). 3 Hours.
Topic assigned with course.

EE 491. Special Problems in (Area). 3 Hours.
Topic assigned with course.

EE 492. Honors Research I. 4 Hours.
Departmental honors students work closely with faculty to develop research skills.
Prerequisites: EGR 301 [Min Grade: P]

EE 493. Honors Research II. 4 Hours.
Departmental honors students work closely with faculty to develop research skills.
Prerequisites: EGR 301 [Min Grade: P]

EE 497. Team Design Project. 3 Hours.
Senior Design Team Project Course. Capstone design project: analysis, 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 485 [Min Grade: D] and 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 333 [Min Grade: D](Can be taken Concurrently) and EE 341 [Min Grade: D](Can be taken Concurrently) and EE 361 [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)

EE 498. Team Design Project I. 3 Hours.
Senior Design Team Project Course Part I. Analysis and design of assigned team project, including design review 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 485 [Min Grade: D](Can be taken Concurrently) and EE 351 [Min Grade: D](Can be taken Concurrently)

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 485 [Min Grade: D] and EE 351 [Min Grade: D] and EE 498 [Min Grade: D] and EE 333 [Min Grade: D] (Can be taken Concurrently) and EE 341 [Min Grade: D](Can be taken Concurrently) and EE 361 [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

EEC 240. Child Growth/Development/Learning I. 3 Hours.
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.

EEC 241. Child Growth/Development/Learning II. 3 Hours.
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.
Interrelationship 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.
Materials and methods. Needs of children, selection of books, societal issues in children's literature, and role of media in children's literature. Extensive field experience required. Admission to TEP required.

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.
Prerequisites: EEC 405 [Min Grade: C] and EEC 406 [Min Grade: C] and EDR 440 [Min Grade: C]

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.
Prerequisites: EEC 405 [Min Grade: C] and EEC 406 [Min Grade: C] and EDR 440 [Min Grade: C]

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.
Prerequisites: EEC 405 [Min Grade: C] and EEC 406 [Min Grade: C] and EDR 440 [Min Grade: C]

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 Languag 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.
Prerequisites: EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]

EFL 498. Student Teaching in Foreign Language N-12. 9 Hours.
Supervised capstone teaching experience in foreign languages (N-12).

EFL 499. Internship in Foreign Language Education Seminar. 1 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.

EGR-Engineering 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.
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)

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.
Prerequisites: EGR 110 [Min Grade: C]

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 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.

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 Introprofessional 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 exminations 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 210. Interpreting Film. 3 Hours.
Introduction to critical analysis of the language of film, surveying concerns in contemporary film theory, including narrative, authorship, genre, the cinematic apparatus, race, gender, and spectatorship.
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, novellas, 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, psycholingustics 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 vocabularyelements 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 (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 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

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]EH 301 [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 critique 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 Thiongo'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 linguistc 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 grammer and usage, focusing on those topics that are presented in the classroom. Topcis 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 languageevolution from Proto-Indo-European to modern English dialects, including phonological shifts, dialectial distinctions, language familes 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 colonial period to 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.
Genre of slave narrative, its critical theories, and its nineteenth- and twentieth-century literary expressions. Includes Equiano, Jacobs, Wilson, Douglass, DuBois, Wright, Angelou, and Morrison.
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 Aiddo, 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 excelllent 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 Eductors. 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. Vocabulary Building. 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. Intergrated 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 Accuratrly 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 061. Speaking and Listening. 0 Hours.
Students practice extensive speaking, including pronunciation instruction and feedback, teaching on conversation strategies, and discussions about culturally relevant topics. Students also practice listening skills in this interactive environment through podcasts, videos, and other media. Vocabulary building is incorporated into this class and emphasizes American expressions and current idioms, which enables students to understand informal English with greater fluency. In addition, class discussions usher in a deeper analysis of American culture.

ELC 062. Using Grammar in Conversation. 0 Hours.
Grammar in practice means using English accurately, not simply knowing English grammar rules for a test. The Using Grammar in Conversation class emphasizes accuracy in fluency. Students review some of the most common grammatical errors in spoken English, including those that frequently impede comprehensibility, and then practice producing the forms accurately in fluent speech. In this way, this class supports previous grammar study but also capitalizes on the possibilities for fluency practice that a short-term immersion program provides.

ELC 063. Reading and Writing. 0 Hours.
This short-term reading and writing class focuses on reading texts that, topically, raise awareness of current events or issues in American culture. Learning outcomes for reading are improved reading skills and expanded range of academic vocabulary. For the writing component of the class, students use the readings as a catalyst for topics. Each session features an emphasis on one type of practical writing and one type of essay. The varied writing areas give students the opportunity to learn several useful writing formats, as well as the specific language functions for each type of writing.

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.
This course is designed to help non-native English speakers achieve an understanding of American culture through film. Film is used as a medium to explore a large range of American cultural topics and issues. Some examples of topics and issues covered are the rule of law, diversity, identity, consumption, and concepts of space. In addition to watching films, both in and out of the classroom, students will develop skills in the following areas of English: speaking, listening, reading, and writing. Additionally, students will learn idiomatic expressions, vocabulary, and pronunciation in everyday speech.

ELC 078. GRE Preparation. 0 Hours.
This course is designed to prepare non-native English speakers for the verbal section of the Graduate Record Exam ®. It will provide an overview of the GRE® and focus on the test-taking strategies necessary for success on the exam. Students will practice taking parts of the exam and will receive feedback from the instructor.

ELC 081. Independent Study. 0 Hours.

ELC 082. Specialiazed Tutoring. 0 Hours.

ELC 085. Univ. Success Skills Bridge. 0 Hours.
This course is designed to prepare students academically vs. linguistically for undergraduate study at UAB. Students will be guided through learning how American academic culture works and gain the skills needed to be leaders in an American university context. Topics may include time management, study skills, professor-teacher dynamics, campus involvement, learning styles, cross-cultural communication, networking, and plagiarism.

ELC 086. Support International Bridge. 0 Hours.
This course is designed to continue training students individually and academically in order to be successful in an American university context. In addition, this course is designed to linguistically support students in the undergraduate courses they are attending as part of the Bridge Program. The final component of this course is the provision of mentors who attend undergraduate credit courses with enrolled students in order to provide support for both students and instructors.
Prerequisites: ELC 085 [Min Grade: C]

ELC 087. Individual Support Bridge. 0 Hours.
This course is designed to provide individualized tutoring and mentoring for International Bridge Program students in the undergraduate courses they are enrolled in. Topics for tutoring will be focused on students' perceived needs, the mentors' observed needs of the students, and the professors' observed needs as well.
Prerequisites: ELC 085 [Min Grade: C] and ELC 086 [Min Grade: C]

ELC 091. Common Hour. 0 Hours.

ELC 092. Academic Writing for Non-Native English Speakers I. 3 Hours.
Development of skills needed for academic writing proficiency. Focus on writing via the development of various types of essays and improved competency in spelling, language mechanics, and usage. All aspects of writing and reading process including generating ideas, drafting, revising, and editing included. May not be used to fulfill any degree requirements.

ELC 093. Academic Writing for Non-Native English Speakers II. 3 Hours.
Communication of ELC 092. Effective development and support of complete essays. All aspects of writing and reading including generating ideas, drafting, revising, and editing covered. May not be used to fulfill any degree requirements.
Prerequisites: ELC 092 [Min Grade: C]

ELC 094. Common Hour II. 0 Hours.
Students will be oriented to the ELI, UAB, and Birmingham. Topics will focus on academics, immigration policy, daily life, and culture. Students will engage with topics through guest speakers, group discussions and local trips.

ELC 101. Academic Writing for Non-Native English Speakers I. 3 Hours.
This course focuses on the development of various types of academic essays with emphasis on organizational structure, grammar, and mechanics. Students will practice all aspects of the writing process: generating ideas, drafting, revising, and editing.

ELC 102. Academic Writing for Non-Native English Speakers II. 3 Hours.
Building on the academic writing skills acquired in ELC 101, this course focuses on the further development of essay writing, including an introduction to research writing. Students learn and practice topics such as organizational structure, grammar, avoiding plagiarism, quoting and paraphrasing, and writing in response to reading.
Prerequisites: ELC 101 [Min Grade: C]

ELC 203. Acad Speaking/Listening NNES 1. 3 Hours.
This course emphasizes the development and practice of speaking and listening skills necessary for successful communication of non-native English speakers in the university environment. Specifically, this course focuses on effective strategies for participating in classroom discourse. It also addresses the communication skills needed for interaction with advisors, professors and other students. In addition, the course builds knowledge of formal and informal vocabulary as well as a focus on pronunciation and opportunities for oral fluency practice. Note: ELC 203 is not a prerequisite for ELC 204.

ELC 204. Acad Speaking/Listen NNES II. 3 Hours.
This course emphasizes the development and practice of speaking and listening skills necessary for successful communication of non-native English speakers in the university environment. Specifically, this course focuses on effective strategies for giving presentations as well as listening to and understanding lectures. In addition, the course builds knowledge of formal and informal vocabulary as well as a focus on pronunciation and opportunities for oral fluency practice. Note: ELC 203 is not a prerequisite for ELC 204.

ELE-Elementary Education Courses

EMC-Emergency Medical Care Courses

EMC 120. Advanced Emergency First Aid. 3 Hours.
This laid-back, fun course prepares anybody to encounter life-threatening emergencies and gives the student the knowledge of how to evaluate, stabilize, and treat sick and injured patients using a minimum of specialized equipment. This training emphasizes activating the EMS system and patient assessment, then providing immediate care for life-threatening injuries and illnesses, including emergency childbirth, controlling the scene, participation in record keeping and data collection, and preparing for the arrival of the EMS personnel.

EMC 122. EMT-Basic (Basic Emergency Care). 5 Hours.
The foundational licensure course for entry into the EMS profession. In this intense 5-semester hour course, students will develop the core cognitive skills to practice Prehospital Emergency Medicine. Topics of instruction include anatomy and physiology, pathphysiology, treatment of medical illnesses and trauma injuries frequently encountered in the prehospital setting. The EMT-B student will learn to obtain an accurate diagnostic impression, triage for seriousness, initiate treatment and appropriate air or ground transport of medically ill or traumatized patients. Approval of the Office of EMS is required before UAB class schedule call numbers will be released for registration.

EMC 123. EMT - Basic Clinical Rotation. 1 Hour.
As an introduction to clinical and operational EMS, 56 hours of clinicals are required for EMT-Basic: 24 hours of EMS Field rotations (ALS ambulance), and 32 hours of Emergency Department rotations. FIELD SITES: Cahaba Valley Fire and Rescue, Trussville Fire and Rescue. ER SITES: Baptist Princeton ER, Medical Center East ER.

EMC 134. Paramedic NSC I. 5 Hours.

EMC 135. Paramedic NSC I Clinical. 2 Hours.

EMC 136. Paramedic NSC II. 5 Hours.

EMC 137. Paramedic NSC II Clinical. 2 Hours.
Paramedic NSC II Clinical Rotations.

EMC 210. Medical Terminology. 3 Hours.
This course is offered on an independent study basis, and is designed to provide education regarding identification of various parts of a word (roots, prefixes and suffixes), the body as a whole, and each body system.

EMC 213. Anatomy. 3 Hours.
This introductory course is designed to provide the student with ability to understand basic anatomy, physiology, pathophysiology and how they relate to the foundations of medicine, particularly emergency medicine. Students will be able to apply general concepts of anatomy and physiology for the assessment and management of emergency patients. The course textbook is edited by a physician-paramedic, and has case studies in each textbook chapter from emergency medicine.

EMC 223. Intro to Electrocardiography. 3 Hours.
This is a course designed to provide introductory education in the basic concepts and recognition of cardiac rhythms, dysrhythmias and their causes. Basic operation and use of monitoring equipment is also covered. This course is ideal for health care professionals outside EMS, who wish to develope a core competency in Lead II ECG recognition.

EMC 234. Paramedic NSC III. 6 Hours.
This course covers pharmacologic principles, specific considerations for drug administration, and the pathophysiologic basis for drug therapy. Students will apply key assessment skills along with drug therapy knowledge to the creation of a totality of patient care specializing in the emergent cardiac care of both pediatric and adult patients alike.

EMC 235. Paramedic NSC III Clinical. 2 Hours.

EMC 236. Paramedic NSC IV. 6 Hours.

EMC 237. Paramedic NSC IV Clinical. 3 Hours.

EMC 302. Advanced Cardiac Life Support. 2 Hours.
ACLS is the collection of core competencies to assess and treat the emergent patient with cardiac pathophysiology.This course is offered in two formats: 1. Initial Provider Course: a 2 day training session for those new to ACLS. 2. Refresher Course: a 1 day review course.

EMC 392. Advanced EMS Pharmacology. 3 Hours.
Broad based study of medications, involving generic and brand names, classification, indications, contraindications, side effects, precautions, packaging, dosages for pediatric, adult, and geriatric patients, pharmacokinetics, pharmacodynamics, efficacy, onset of action, duration, half-life, and pharmacologic mathematics as applicable to advanced clinical practice for Paramedics in the EMS field. This course will broaden the knowledge base of clinical Paramedics who provide care to patients under the influence of these medications or by administering these medications with the expanded role of Paramedics in healthcare.

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 multi-system 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.

EMS 353. Teaching Science in Middle/Junior High School. 3 Hours.
Prerequisites: EMS 343 [Min Grade: C]

EMS 354. Teaching Social Studies in Middle/Junior High Sch. 3 Hours.
Methods of teaching middle grades mathematics. 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.

EMU 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]

EMU 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. Incldued 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 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.
Prerequisites: BY 116 [Min Grade: C] or BY 123 [Min Grade: C]

ENH 412. Environmental Risks in a Global Society. 3 Hours.
The course will cover the basic components of risk assessments including 1) the different types of datasets used to identify hazards; 2) the different ways in which exposure to a hazard may be assessed; 3) how a relationship between the hazard and a health response is measured and how to identify and deal with uncertainty in risk estimates. Risk perception and communication will also be discussed. This course is designed to instill critical thinking regarding the often conflicting economic, social, and environmental tradeoffs inherent in environmental policy and management. College level biology, chemistry, and statistics recommended.
Prerequisites: PUH 300 [Min Grade: C]

ENH 491. Special Topics in Environmental Health Sciences. 1-6 Hour.
This course will consider various topics related to environmental health sciences, and the topic will differ each term. Course requirements may include lecture, laboratory, fieldwork, readings, discussions, service learning, and internships. Course may be conducted primarily on- or off-campus. May be taken more than once for credit with different topics.

ENH 498. Undergraduate Research in Environmental Health Sciences. 1-6 Hour.
An opportunity for senior level undergraduate students to conduct research in some area related to environmental health sciences research. Students will perform research under the supervision of a faculty 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 Entrepreneurshp 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 parto one 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.

EPR 455. Fund Raising in Human Services. 3 Hours.
This course introduces students to the area of philanthropy including fund raising, development, special events, annual fund, major gifts, capital campaigns, and basic finance in the nonprofit sector. It is also appropriate for students working in other areas of Human Services as well as other majors who plan to work with nonprofits or 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. Ldeshp in Non-Profit Admin. 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 courses 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-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 Earths 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 107. Directed Readings in Earth Science. 1-3 Hour.

ES 109. Planet Earth. 3 Hours.
Major topics and problems in modern earth science. Nature of solid Earth and its atmosphere, climatic change, Earths resources, interaction of Earth with sun, and planetary geology. Selected readings and videotapes.

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 earths 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 taughtForeign Language and culture.Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Offered ondemand 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 220. 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 sixty years 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, migrancy, 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 Student. 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 Ehtics and Civic Responsibility, where thet 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 semsester 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 studnets.

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 CS 101 [Min Grade: C]) and (EC 211 [Min Grade: C] or EC 201 [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 GPAO 2.00) or (AC 201 [Min Grade: C] and (EC 211 [Min Grade: C] or EC 201 [Min Grade: C]) and (EC 210 [Min Grade: C] or 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 GPAU 2.00 and GPAO 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 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 GPAU 2.00 and GPAO 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 managment 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 GPAO 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 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 (GPAU 2.00 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 abiluty to identify problems, apply the tools of finace, evaluate alternatives and arrive at vialbe 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 AC 320 [Min Grade: C] and FN 412 [Min Grade: C] or IB 412 [Min Grade: C] and EC 420 [Min Grade: C] or QM 420 [Min Grade: C] and GPAT and GPAU 2.00) or (FN 310 [Min Grade: C] and FN 320 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and AC 320 [Min Grade: C] and FN 412 [Min Grade: C] or IB 412 [Min Grade: C] and EC 420 [Min Grade: C] or QM 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 signfiicant 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.

FR 202. Intermediate French II. 3 Hours.
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. Prerequiste: 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.
Continuation of FR 307. Continued review of principles of French grammar, Vocabulary, and isioms. Also comparative linguistics and phonetics. Conducted in French.

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. Preq: 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 studnets 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-Siecle France (1895-1940). 3 Hours.
Major literary and artistic movements of fin-de-sicle France, from La Belle Epoque 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. May be repeated for credit.

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

Fellowship Advisory 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 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.

Foreign Exchange Programs Courses

ICX 100. Foreign Exchang Program. 3 Hours.

GBS-Grad Blomedical 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]

GEO-Geography Courses

GEO 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.

GEO 109. Intro to Urban Geography. 3 Hours.
External and internal spatial processes of cities and city systems with emphasis on contemporary urban problems.

GEO 121. World Regional Geography. 3 Hours.
Modern worlds great culture realms using basic ideas and concepts in field of geography.

GEO 221. Geography of North America. 3 Hours.
Nature and character of places, especially as caused by relationship between human beings and environment.

GEO 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 methodsof cartographic representation, aerial and satellite image analysis and geographic information system. Equal weight will be placed on first priciples, practical training in computer methods, and case studies selected from different regions of the earth.
Prerequisites: GEO 101 [Min Grade: C]

GEO 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.

GEO 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 chronic mentally 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 heathcare 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/retirement, 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 burden 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 access to care 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 offering 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.

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. 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 measureable 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 Managment 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 healthcare 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 difference 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.

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, tornados, 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 Determ 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 Hlth Educ. 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, ICPC 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 optionfor 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 170. 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 171. Interdisciplinary: Linguistics. 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 172. Interdisciplinary: Foreign Languages & Literatures. 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 freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 173. 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 of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 174. 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 175. 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 251. 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 252. 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 in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 267. Seminar: 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). 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 organsims. 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. Interdiscipliinary: 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 Filmaking. 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 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 Earths 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, sate, 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 rends 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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, sate, 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: 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 437. 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 438. 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 439. Seminar: English. 1-3 Hour.
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 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 the problems and practice of global cooperation and conflict, global power, wealth, and social justice. 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 modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory.

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: 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 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: 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 466. 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: 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 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 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 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 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 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 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 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 482. Seminar: Art and 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 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 core 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 civilizationss from pre history to the early modern era(ca. 1600 CE). The principal charateristics of these civilzations such as political development, social structure, gender relations, religious beliefs and philosophies, will be examined. The ultimate goal is for students to see the wolrd 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 globalism - "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 pedagoy involving complex, collaborative role-playing games in which students seek to attain "victory objectivs" while grappling with central tests in the history of ides. The class will conduct several Reacting games that will allowstudents to explore key moments in Europe 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 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 223. 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 225. History of Alabama. 3 Hours.
Social, economic, and political survey of state from prehistory to present.

HY 226. History and Development of Birmingham. 3 Hours.
Social, economic, and political survey of the Birmingham area.

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 orgins of the Cold War, decolonization, Europena integration, globalization, the rise of China, India and Japan, the revolutions in Easten 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 precolumbian 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.

HY 265. History of the Soviet Union 1917-1991. 3 Hours.
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 infrom 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-Inperial 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, Inida, and Japan, the revolutions in Eastern Euope in 1989 and the collapse of communism in the Soviet Union, the third wave of democratization, Islamic fundamentalism, 9/11, and the internation 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 intelluctual, social, and political dimensions.

HY 357. Religion in Early Modern European History. 3 Hours.
Examines the theological, soical and political upheavals that shaped religious life and how religion permeated early modernculture 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 Britain 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 expolre 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: D]

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 16th Century, commonly known as the Age of Jacksin or the Market Revolution, as am 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 historigraphy 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.
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 trend which includes the Korea 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 mulit-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.
Prerequisites: HY 120 [Min Grade: C] or HY 121 [Min Grade: C]

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 Lation American women in historial perspective with reference to factors such as race, class, religion and ethnicity; Hispanic cultural attitudes that aave 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.
Prerequisites: HY 101 [Min Grade: D]

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 Spainsh Inquisition. 3 Hours.
Examines early modern Spainsh history covering the breakdown of the Spainsh "convivencia," the rise of the Catholic kings and the absolutist state, the establishment of a Spanish colonial empire and its ultimate decline of power, as well as an examination of the Spainsh Inquisition and its institional development and function as a tool of the Spainsh 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 Napolenic 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 Rusian intellectual thought from Peter thr 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 gobal 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.
Japan's political and cultural history from its legendary beginnings to the final decades of the Tokugawa shogunate.

HY 477. Modern Japan. 3 Hours.
Japan's political and cultural history from the Meiji Restoration to the present.

HY 478. Topics in European History. 3 Hours.
Special Studies in European History.

HY 480. Historic Preservation and Public Policy. 3 Hours.
Ways to research, assess, and use hostoric 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 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 Hidtory. 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 articulated 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.

INFN - Study Away - Finance Courses

INFN 400. Study Away Finance. 15 Hours.

INFR-Study Away - French 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.

INJP 390. Intmd-Adv Japanese SA. 1-6 Hour.
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 100 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 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 GPAT and GPAO 2.00) and (IS 295 [Min Grade: C] and 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 aduit and recover from security breaches.

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 lke 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.The course focues on collection and use of web data such as web traffic and visitor informatioin 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 exposure 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 GPAT and GPAO 2.00) or (IS 472 [Min Grade: C] and IS 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPAU 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 deteremined 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.

ITL 399. Independent Study. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Italian 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 Italian language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Italian is the targeted outcome. Permission of the Department Chair required.

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.

ITS 299. Problems in International Studies. 1-3 Hour.
Study of international relation and world culture subjects.

ITS 470. Seminar in International Studies. 3 Hours.
International Studies exit seminar that draws together program themes and summarizes main threads of current global issues. Prerequisite: permission of ITS director.

ITS 471. Seminar in International Studies. 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. Writing, Ethics and Civic Responsibility are significant components of this course (QEP).

ITS 480. Advanced Problems in International Studies. 1-3 Hour.
Independent study. Prerequisite: permission of ITS director.

ITS 482. Internship in International Affairs. 1-3 Hour.
Individually arranged assignments in international companies or organizations, monitored and evaluated by the director of international studies. Prerequisite: permission of ITS director.

ITS 497. Honors Research in International Studies. 3 Hours.
Directed research by international studies honors students under faculty supervision. Prerequisite: open only to International Studies Honors students by permission of ITS director.

ITS 499. Advanced Seminar in International Studies. 3 Hours.
Special-topic seminar treating major current event or international problem.

Intl Scholar Student Service Courses

ISSS 101. International Student Seminar. 0 Hours.

JHS-Joint Health Sciences Courses

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.
Continued development of grammar, vocabulary, reading, writing, and cultural proficiency. Conducted in Japanese. (CORE AREA II).
Prerequisites: JPA 102 [Min Grade: D]

JPA 202. Intermediate Japanese II. 3 Hours.
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 knowedge 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.

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 asessment 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 indentification and application of major types of physical trace evidence in criminal cases involving analysis and comparision. 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] or JS 150 [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 repsonses 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.
Prerequisites: JS 150 [Min Grade: C] and JS 230 [Min Grade: C]

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 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).

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 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).

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 the 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 commmon 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 nonsurf, 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 diffent 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 other 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.
Prerequisites: (KIN 115 [Min Grade: C] and KIN 131 [Min Grade: C]) or (PE 115 [Min Grade: C] and PE 131 [Min Grade: C])

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 experiene 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 pilosophical 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 commerical, 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 adaptions 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 eduction 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 Succes. 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 decison 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 Ldshp 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 experienctial 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.

LCH 103. Freshman Sem:Crit Thk on Witch. 3 Hours.
Focusing on the trial of Anne Hutchinson who was accused of heresy in Puritan New England, this experiential course utilizes role-playing games and historical documents to introduce and teach the critical thinking skills necessary for academic success.

LCH 104. Fr Sem: Place as Identity. 3 Hours.
Studying and writing about works by writers who draw inspiration from physical places. What is the price paid for our culture's enhanced mobility? Is romance of place any longer relevant? Is a physical place necessary for a sense of home? What does "Home is where the heart is" mean?.

LCH 105. Fr Sem: Morality/Public Policy. 3 Hours.
After a basic introduction to moral and political philosophy, this course integrates public policy and contemporary moral issues through an intensive study of five selected public policy issues that have a moral dimension. Possible issues include drug legalization, capital punishment, poverty and welfare, famine relief, affirmative action, and gay marriage.

LCH 106. Freshman Sem: LOST!. 3 Hours.
This Freshman Learning Community introduces students to the study of other civilizations, languages and cultures, focusing on how anthropologists, archaeologists and linguists have uncovered the secrets of lost and disappearing cultures and languages. An enhanced awareness and understanding of human similarities and differences will help prepare students for success in the increasingly interconnected world of the twenty-first century. Freshmen will also discover UAB culture through projects and experiences like a team-building orienteering exercise.

LCH 107. Fr Sem: Green Revolution. 3 Hours.
What is the price paid for our disconnection from the natural world? What are the most effective methods for ensuring future harmony with the environment? Find whether you are part of the problem or part of the solution by writing about works by writers who draw inspiration from nature; observation and examination of a few selected (locally accessible) locales; practice identifying native plant and animal species; and research/writing about such pertinent issues as sustainability, climate change, recycling, and future models for human/natural cohabitation.

LCH 108. FS: Impac Comm - Telling Story. 3 Hours.
This FLC is designed to help students develop tools and techniques to enhance their communications about their experiential and academic learning over time. Students will participate in projects designed to help them think more deeply about their interests, goals, and values and how these relate to their roles as citizens not only of their local community (such as UAB) but also of the increasingly interconnected global world. Consistend with the academic aims of the ELSP program, students will learn a variety of ways to communicate about their goals, values, and experiences, ranging from traditional academic written papers to the use of blogs, videos, and other media.

LCHP- FLC in Hlth Professions Courses

LCHP 101. Survey of Health Professions. 3 Hours.
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.

LCHP 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 Sem: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.

LCS 105. Freshman Sem:Crit Think/Darwin. 3 Hours.
Focusing on the groundbreaking scientific discoveries of Charles Darwin and the arguments of his opponents, this experiential course utilizes role-playing games and historical documents to introduce and teach the critical thinking skills necessary for academic success.

LCS 106. Fr Sem: Reform to Revolution. 3 Hours.
From Reformation to Revolution freshman seminar: Reacting to the Past simulation pedagogy is used to engage students through elaborate role-playing and reading primary texts to understand the Protestant Reformation and the French Revolution, two crucial turing points in the history of Western Civilization.

LCS 107. FS: Sci & Phil of a Good Life. 3 Hours.
What is happiness and how can it be achieved and measured? How and why should one study virtues? How does public policy about education and health care influence your well-being? Evidence to date suggests that common conceptions about what contributes to a good life are wrong and that individuals are bad at predicting what will make them happy. Experiential exercises will demonstrate how to apply the concepts under study to your own lives.

LCS 108. The Politics of Virtue in Western Civilization. 3 Hours.
What is virtue? What does it mean to be a virtuous individual? What is the definition of a virtuous society? These are fundamental questions in the history of Western Civilization. In "The Politics of Virtue in Western Civilization" students will explore these questions using two Reacting to the Past games: "The Threshold of Democracy, Athens in 403 B.C." and "Rousseau Burke & Revolution in France, 1791." In working through these two historical simulations and studying the works of Plato and Rousseau, students will gain an understanding and appreciation of how the question of "virtue" was addressed during two seminal periods that have shaped our modern world.

LCSL-FLC in Service Learning Courses

LCSL 101. Impacting Community/SL. 3 Hours.
A study of the helping professions in the classroom and through on-going service within the community through community agencies. Course introduces sociological connections between race, class, and other social identities of gender, age, and ability, as well as basic skills in counseling, crisis intervention, and working with special populations.

LING-Linguistics Courses

LING 221. Introductory Descriptive Linguistics. 3 Hours.
Description and analysis of non-Western languages.
Prerequisites: EH 102 [Min Grade: C]

LING 260. 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 structures; beginning componential and structural analysis.
Prerequisites: EH 102 [Min Grade: C]

LING 350. Introduction to Linguistics. 3 Hours.
Introduction to the scientific study of language with a main focus on principles underlying phonology, morphology, syntx and semantics. Relationship between language society, psycholinguistics and language typology may also be adddressed.
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 familes, 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 revelant 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 majpr 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 Portugues or Brazillian writers. Overview of a rotating selection of genres, text, authors, and regions of the Lusophone World. Focus on the relevant questions of genre and on 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 098. 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 from 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 MAAD 15 or MA1 085 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; applications and modeling, both scientific and business. 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. May not be enrolled in Undergraduate Certificate. Lecture, online at least 80%. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 102 [Min Grade: C] or (A02 22 and HSCG 3.50) or (A02 23 and HSCG 3.00) or (A02 24 and HSCG 2.50) or (S02 520 and HSCG 3.50) or (S02 540 and HSCG 3.00) or (S02 560 and HSCG 2.50) or S02 580 or MAAD 21 or MA2 080 or A02 25

MA 105L. Pre-Calculus Algebra Laboratory. 0 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; applications and modeling, both scientific and business. 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 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, conditional 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 drawiwng 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 MA1 085

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 addtional 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; Newtons 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 MA5 080

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 PHL 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 historial viewpoint, and their cultural, educational and soical 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. Probablistic 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 understandingof numberand 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, semi-groups, 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; solution of the heat equations 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; solution of the wave equations, reflection of waves; solution of the heat equation in bounded and unbounded media; Laplace's equation, Dirichlet and Neumann problems.
Prerequisites: MA 455 [Min Grade: C]

MA 461. Modeling with Partial Differential Equations. 3 Hours.
Practical examples of partial differential equations; derivation of partial differential equations from physical laws; introduction to MATLAB and its PDE Tool-box, and COMSOL using practical examples; an overview of finite difference and finite element solution methods; specialized modeling projects in topics such as groundwater modeling, scattering of waves, medical and industrial imaging, continuum mechanics and deformation of solids, Fluid mechanics including the class boat race, financial derivative modeling, and acoustic and electromagnetic wave applications. Written project reports required for all homework assignments. Quantitative Literacy and Writing are significant components of this course (QEP).
Prerequisites: MA 227 [Min Grade: C]

MA 462. Intro to Stochastic Differential Equations. 3 Hours.
Stochastic differential equations arise when random effects are introduced into the modeling of physical systems. Topics include Brownian motion and Wiener processes, stochastic integrals and the Ito calculus, stochastic differential equations, and applications to financial modeling, including option pricing.
Prerequisites: MA 485 [Min Grade: C]

MA 463. Operations Research I. 3 Hours.
Mathematical techniques and models with application in industry, government and defense. Topics usually chosen from dynamic, linear, and nonlinear programming; decision theory; Markov chains; queuing theory; inventory control; simulation; network analysis; and selected case studies.
Prerequisites: MA 227 [Min Grade: C]

MA 464. Operations Research II. 3 Hours.
Mathematical techniques and models with application in industry, government, and defense. Topics usually chosen from dynamic, linear, and nonlinear programming; decision theory; Markov chains; queuing theory; inventory control; simulation; network analysis; and selected case studies.
Prerequisites: MA 463 [Min Grade: C]

MA 465. Partial Differential Equations: Finite Diff. Meth.. 3 Hours.
Review of difference methods for ordinary differential equations, including Runge-Kutta, multi-step, adaptive stepsizing, and stiffness; finite difference versus finite element; elliptic boundaryvalue problems, iterative solution methods, self-adjoint elliptic problems; parabolic equations, including consistency, stability, and convergence, Crank-Nicolson method, method of lines; first order hyperbolic systems and characteristics, Lax-Wendroff schemes, method of lines for hyperbolic equations.
Prerequisites: MA 360 [Min Grade: C] and MA 455 [Min Grade: C]

MA 467. Gas Dynamics. 3 Hours.
Euler's equations for inviscid flows, rotation and vorticity, Navier-Stokesequations for viscous flows, hyperbolic equations and characteristics, rarefaction waves, shock waves and entropy conditions, the Riemann problem for one-dimensional gas flows, numerical schemes.
Prerequisites: MA 252 [Min Grade: C] and MA 360 [Min Grade: C]

MA 468. Numerical Analysis. 3 Hours.
Introduction to Matlab, integration, interpolation, rational approximation, splines, numerical methods for ordinary differential equations, ordinary differential equation modeling, minimization of functions. Requires Knowledge of C or Fortran.
Prerequisites: MA 252 [Min Grade: C]

MA 469. Numerical Analysis II. 3 Hours.
Integrals, interpolation, rational approximation, numerical solution of ordinary differential equations, iterative solution of algebraic equations in single variable, least squares. Gaussian elimination of solution of linear equations.
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, connected-ness, 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.
The notion of no arbitrage. Interest, compounding, bonds. Review of mean, variance, and covariance. Portfolio management: risk and return. Forwards and Futures. Put-call parity. Martingales and conditional expectation. The binomial model. Fundamental theorems of asset pricing. Brownian motion (heuristics). Ito's formula and Girsanov's theorem (heuristics). The Black-Scholes-Merton formula. Interest rates. The binomial model for stochastic interest rates.
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.
Sampling techniques and data analysis, Simulation, Point estimation, Confidence intervals, Sufficient statistics, Rao-Cramer lower bound, Tests for binomials, Tests for normals, Goodness-of-_t test, Contingency tables, Two factor analysis, Regression, Order statistics, Nonparametric methods: Wilcoxon test, Run test, and Kolmogorov-Smirnov test. A computer project that involves a written report. Quantitative Literacy and Writing are significant components of this course (QEP).
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.
Kinematics of particles in Cartesian, cylindrical, and polar coordinates. Simple relative motion. Second law application in rectilinear translation. Projectile motion. Energy and momentum principles for particles and for rigid bodies in plane motion. Impact and conservation of linear momentum.
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.
Control systems, feedback, and transfer function concepts. Laplace transform of mechatronic systems. Stability, steady state, and transient response. Systems modeling and analysis in time and frequency domain. Root locus and Nyquist Bode plots. Actuators, sensors, and controllers for various engineering applications. Fundamentals of mechanical and electrical/electronic component integration with controls and mechatronic system design.
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 sear 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.
Prerequisites: MSE 280 [Min Grade: C] and CE 220 [Min Grade: C] and MA 125 [Min Grade: C]

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.
Concepts and applications of finite element method. Development and applications of basic elements used in engineering mechanics. Use of finite element analysis software. Application of finite element concept to several areas of mechanics.
Prerequisites: CE 220 [Min Grade: C]

ME 475. Mechanical Vibrations. 3 Hours.
Development of equations of motion for free and forced single-degree-of-freedom (SDOF) systems. Multi-degree-of-freedom systems. Transient response, support motion and vibration isolation for SDOFs. Vibration absorbers, generalized mass and stiffness, orthogonality of normal modes, and root solving and Gauss elimination procedures. Chelosky decomposition and Jacobi diagonalization methods.
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.
Continuation 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. Oceanology of the Gulf of Mexico. 2 Hours.
Descriptive study of the oceanology 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 set of 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 speciation 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 (GPAO 2.00 and GPAU 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-requirement 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 246, 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 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 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 insupply 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]

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 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 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 492. Current Topics in Production and Operations Managemt. 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 GPAT and GPAO 2.00) or (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)

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 GPAT 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 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 314. Consumer Behavior. 3 Hours.
Determinants of consumer behavior, cultural, social, family, economic and business environments within which consumer purchase decisions are made. Preq: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 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 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 GPAT 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 GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 333. Sports Marketing. 3 Hours.
Strategic analysis, positioning and marketing of professional and amateur sports events and organizations. The goal is to provide students with a comprehensive view of all that is required to successfully market a sporting organization or event. Junior standing required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MK 401. Social Media in Marketing. 3 Hours.
Survey course of the unique aspects fo 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 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 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 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 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. Preq: 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 GPAT and GPAO 2.00) or (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. Preq: C or better in AC 201, EC 211,IS 103, LS 246, QM 215 and MK 303 and MK 320 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 MK 320 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 430 [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 MK 320 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 440. 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 addtional 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 GPAT 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 MK 410 [Min Grade: C] and GPAU 2.00 and GPAO 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 GPAU 2.00 and GPAO 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 (GPAU 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 (GPAU 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 responsibilitiesof 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 shuld 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 evalutate 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 153. Basic Military Studies. 3 Hours.
Mini-term class stressing physical training, leadership, and communication skills. Designed for students who are not able to take scheduled MS 101, 102, and 103 classes. Taken only with permission of Professor of Military Science.

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 202L. 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 responisbilities that foster an ethicalcommand climate; develops cadet leadership competencies; prepares for success at National Advanced Leadership Camp; recognizes leader responsibilty to accommodate subordinate spiritual needs; apply principles and techniques of effective wiritten 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.
Platton 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]

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.
Processing of metals, glasses, ceramics, and composites. Powder processing, casting, welding, rapid solidification, and other advanced methods. Ethics and Civic Responsibility are significant components of this course (QEP).
Prerequisites: CE 220 [Min Grade: D], MSE 280 [Min Grade: D] and CE 220 [Min Grade: D]

MSE 402. Frontiers of Materials. 3 Hours.
Recent advances in materials technology and application. Novel processing, structures, properties, and performance issues.
Prerequisites: MSE 281 [Min Grade: D]

MSE 405. Frontiers of Automotive 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).

MSE 496. MSE Honors Seminar. 1 Hour.
Research presentations by faculty, students, and invited guests on topics related to Materials Science and Engineering.

MSE 497. MSE Honors Research. 2-6 Hours.
Honor students develop materials engineering research skills by working closely with faculty and graduate students.
Prerequisites: EGR 301 [Min Grade: P]

MSE 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. Writing is a significant component of this course (QEP).
Prerequisites: MSE 401 [Min Grade: D](Can be taken Concurrently) or ME 405 [Min Grade: D](Can be taken Concurrently)

MSE 499. Capstone Design Project II. 3 Hours.
Continuation of MSE 498 which must be taken in the previous term. Interim and final design reviews with written and oral reports. Writing is a significant component of this course (QEP).
Prerequisites: MSE 498 [Min Grade: D]

MSTP-Med Science Traning Prog Courses

MT-Medical Technology Courses

MT 350. Special Topics: Chemistry. 1-3 Hour.
Designed specifically for individual student to cover topics not covered in MLT curriculum.

MT 400. Health and Safety Management. 1 Hour.
Review of infection control principles focused on bloodborne, airborne, drug-resistant and opportunistic pathogens, and general health and safety guidelines and standards.

MT 403. Body Fluids. 1 Hour.
Diagnosis and monitoring renal and systemic disease through the physical, biochemical, and microscopic analysis of urine and feces. Diagnosis of central nervous system and systemic disease through cerebrospinal fluid analysis. Diagnosis of metabolic and infectious disease through analysis of peritoneal fluid, synovial fluid, transudates, and exudates. Fertility testing using semen analysis.

MT 404. Body Fluid Lab. 1 Hour.
Diagnosis and monitoring renal and systemic disease through the physical, biochemical, and microscopic analysis of urine and feces. Diagnosis of central nervous system and systemic disease through cerebrospinal fluid analysis. Diagnosis of metabolic and infectious disease through analysis of peritoneal fluid, synovial fluid, transudates, and exudates. Fertility testing using semen analysis. Concurrent enrollment MT 403.
Prerequisites: MT 403 [Min Grade: C](Can be taken Concurrently)

MT 405. Laboratory Management. 3 Hours.
Current catalog description will remain unchanged. Ethics and Civic Responsibility are significant components of this course (QEP).

MT 406. Laboratory Techniques. 2 Hours.
Overview of issues and skills surrounding working in the modern laboratory environment; includes safety, collection of specimens, equipment, mathematics, measurements, microscopy, dilutions, quality assurance, basic spectrophotometry, phlebotomy, automation of laboratory testing and lab computers.

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 eveluation of hermolytic 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 basis 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 wriiten 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 vocal 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.
Required of music majors for graduation and music education majors before entering Teacher Education Program (TEP).

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.
Private instruction in Piano. Limited to Music Majors and Minors.

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 220. 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 220L. Concert Choir Learning Lab. 0 Hours.
Required Learning Lab for MUP 220 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.

MUP 240. Private Lessons: Voice. 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 250. Private Lessons: Piano. 1-2 Hour.
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.

MUP 261. Private Lessons: Flute. 1-2 Hour.
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.

MUP 264. Private Lessons: Saxophone. 1-2 Hour.
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.

MUP 271. Private Lessons: Trumpet. 1-2 Hour.
Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 272. Private Lessons: French Horn. 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 273. Private Lessons: Trombone. 1-2 Hour.
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.

MUP 275. Private Lessons: Tuba. 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 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.

MUP 280. Private Lessons: Percussion. 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 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.

MUP 291. Private Lessons: Violin. 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 292. Private Lessons: Viola. 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 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.

MUP 294. Private Lessons: Bass. 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 295. 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.

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.

MUP 297. Private Lessons: Jazz Bass. 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 320. 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.

MUP 340. Private Lessons: Voice. 1-2 Hour.
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]

MUP 350. Private Lessons: Piano. 1-2 Hour.
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.

MUP 361. 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.

MUP 362. 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 363. 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.

MUP 364. Private Lessons: Saxophone. 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 366. 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 371. Private Lessons: Trumpet. 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 372. Private Lessons: French Horn. 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 373. Private Lessons: Trombone. 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 374. 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.

MUP 375. Private Lessons: Tuba. 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 380. Private Lessons: Percussion. 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 391. Private Lessons: Violin. 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 392. Private Lessons: Viola. 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 393. 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.

MUP 394. Private Lessons: Bass. 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 395. 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.

MUP 397. Junior Recital. 0 Hours.
Thirty-minute recital presented in the junior year.

MUP 420. Opera Workshop. 1 Hour.
Select member group. Performs staged productions of operas and opera scenes. Requires advanced music-reading skills. May be repeated for credit.

MUP 440. Private Lessons: Voice. 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 340 [Min Grade: C]

MUP 450. Private Lessons: Piano. 1-2 Hour.
Limited to Music majors and minors. Weekly performance class and private lesson, to be.
Prerequisites: MUP 350 [Min Grade: C]

MUP 461. 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 361 [Min Grade: C]

MUP 462. 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 362 [Min Grade: C]

MUP 463. Private Lessons: Clarinet. 1-2 Hour.
Private instruction in clarinet. Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. may be repeated for credit.
Prerequisites: MUP 363 [Min Grade: C]

MUP 464. Private Lessons: Saxophone. 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 364 [Min Grade: C]

MUP 466. 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.
Prerequisites: MUP 366 [Min Grade: C]

MUP 471. Private Lessons: Trumpet. 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 371 [Min Grade: C]

MUP 472. Private Lessons: French Horn. 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 372 [Min Grade: C]

MUP 473. Private Lessons: Trombone. 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 373 [Min Grade: C]

MUP 474. 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.
Prerequisites: MUP 374 [Min Grade: C]

MUP 475. Private Lessons: Tuba. 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 375 [Min Grade: C]

MUP 480. Private Lessons: Percussion. 1-2 Hour.
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]

MUP 491. Private Lessons: Violin. 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 391 [Min Grade: C]

MUP 492. Private Lessons: Viola. 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 392 [Min Grade: C]

MUP 493. 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 393 [Min Grade: C]

MUP 494. Private Lessons: Bass. 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 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.

NA-Nursing Anesthesia Courses

NAH-Nursing - Adult Health Courses

NBB-Nursing - Biobehavioral Courses

NBL-Neurobiology Courses

NBL 120. Basic Neuroscience. 3 Hours.

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 differnet 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.

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

NFH-Nursing - Family Courses

NGN-Nursing - Gerontological Courses

NHSA-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, aspectic and nonaseptic techniques, oxygen adminstration, 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 ofradiation; 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 duel 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 iamge 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 celld 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-lifes, 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 apatient 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 genenrator 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 qulaity 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.

NNE-Nursing - Neonatal Courses

NNI-Nursing - Informatics Courses

NNS-Nursing - Neuroscience Courses

NOM-Nursing - Outcomes Measure Courses

NON-Nursing - Oncology Courses

NPA-Nursing - Palliative Care Courses

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

NTC-Nursing - Teaching 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 requarding 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 experinces as advacned practice nurses. Students will conclude the sesmeter with acholarly 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. Emphassi 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.

NUR 314. Pharmacotherapy & Disease Process I. 2 Hours.
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 324. Pharmacotherapy & Disease Process II. 3 Hours.
The purpose of this course is to build on the knowledge gained in NUR 314 and emphasizes the application of principles of pathophysiology and pharmacotherapies to body systems. Content will align with concepts taught in Concepts of Behavioral Health and Concepts of Adult Health Nursing I.
Prerequisites: NUR 314 [Min Grade: C]

NUR 326. Concepts in Adult Health Nursing I. 3 Hours.
The purpose of this course is to introduce the student to alterations in regulation and homeostasis, protection and movement, oxygenation and coping and stress tolerance. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the nursing care and management of young, middle-age, and older adults.
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 327L. Concepts of Adult Health Nursing I Practicum. 2 Hours.
The purpose of this course is to apply knowledge related to alterations in regulation and homeostasis, oxygenation, and protection and movement to the care of young, middle age, and older adults. The course focuses on the role of the nurse as caregiver, educator, and advocate. Emphasis is on the nursing care and management of young, middle-age, and older adults.
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 32L. Nursing Skills Development II. 1 Hour.
The purpose of this course is to build on nursing skills attained in NUR 311L 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 333. Growth and Development. 3 Hours.
The content of this course is centered around major theories of development; including physiological, psychoanalytic, social, stimulus-response, cognitive and moral. Current areas and findings of research are investigated and research designs and methods are critiqued. Self-selected in depth studies are made and shared. Contributions of the study of development functional practice of nursing are demonstrated. Admission to the School of Nursing is required.

NUR 334. Pharmacotherapy Disease Process III. 2 Hours.
This course is a continuation of Pharmocotherapy & Disease Process II. Emphasis is on the application of principles of pathophysiology and pharmacotherapies to body systems. Content will align with concepts taught in Concepts of Adult Health Nursing II and Concepts of Maternal Child Health Nursing.
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] and NUR 324 [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 pathophysiologic 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 pathophysiologic 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 student¿s 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 ¿ 3 NUR 383 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] (Can be taken Concurrently)

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] (Can be taken Concurrently)

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 emphasis is on the application of theoretical and empirical knowledge from nursing and the scientific and humanistic disciplines 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 advance the mission on social justice in health care through community engagement with vulnerable, at-risk individuals and populations. The focus is on the professional roles of caregiver, educator, advocate, health coach, counselor, leader, collaborator, and interprofessional team member, Emphasis is on injury and illness prevention, health promotion, health maintenance, health literacy, and disaster preparedness for population aggregates in local, national, and global communities.
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 431L. Nursing Skills Development III. 1 Hour.
The purpose of this course is to build on nursing skills attained in NUR 321L to provide safe, quality care. The course focuses on the role of the role of the nurse as caregiver and collaborator. Emphasis is on critical inquiry, clinical reasoning, problem solving and advanced psychomotor and care competencies.
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 434. 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 seminar 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, delegation, 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 ths course will also provide the student with opportunities to demonstrate discipline-specific proficiency related tow riting, quantitative literacy and ethics/civic responsibility. Prerequisites: All courses in the nursing program, except NUR 395 and NUR 396L which may be take 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 141. Clinical Evaluation of the Visual System I. 2 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.

OPT 221. Clinical Evaluation of the Visual System III. 7 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]

OPT 231. Clinical Evaluation of the Visual System IV. 2 Hours.
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. Anomolies 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/Clinical 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 310. 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 310L. Advanced Clin Proc I Lab. 0 Hours.

OPT 311. Anomolies 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.

OBHS 141. System 3 Cardio and Renal. 4 Hours.

OBHS 141L. Sys. 3 Cardio/Renal/GU Lab. 0 Hours.

OBHS 142. System 4 Renal/GenU. 2 Hours.

OBHS 142L. Sys 4 Renal/GU lab. 0 Hours.

OBHS 151. System 4 Respiratory. 2 Hours.

OBHS 211. System 5 GI/MSK/Skin. 4 Hours.

OBHS 212. Systems 6 Hematology/Endocrine. 3 Hours.

OBHS 221. Sys 6 Hematology/Endocrine. 3 Hours.

OBHS 222. Systems. 2 Hours.

OBHS 223. System 10 Systems Review. 1 Hour.

Optometry/Vision Science Courses

OPVS 111. Basic Sc/Clinical Optometry. 1 Hour.

OPVS 121. Basic Science/Clin Opt II. 1 Hour.
Basic Science and Clinical Optometry II.

OPVS 131. Basic Science and Clin Opt III. 1 Hour.

OPVS 131R. Rem Basic Science & Clin Opt. 1 Hour.

OPVS 141. Basic Science and Clin Opt IV. 1 Hour.

PA-Surgeon's Assistant Courses

PAT-Pathology Courses

PCD-Pharmaceutical Design Courses

PE-Physical Education Courses

PH-Physics Courses

PH 100. Preparatory Physics. 3 Hours.
Designed primarily for students in need of preparation for PH 201 or PH 221. Vectors, kinematics, and dynamics, including conservation laws. Emphasis placed on methods of analyzing physics problems, setting up equations for physics problems, and interpreting information in physics problems.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C]

PH 191. Co-operative Work Program. 2-3 Hours.
Co-Op Work Program.

PH 201. College Physics I. 4 Hours.
First term of non-calculus based physics. Linear and planar motion, Newton¿s laws, work and energy, gravitation, momentum, rigid body motion, elasticity, oscillations, waves, sound, fluids, ideal gases, heat and thermodynamics. Lecture and laboratory. Quantitative Literacy is a significant component of this course (QEP).
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C] or PH 100 [Min Grade: C]

PH 201L. College Physics Laboratory I. 0 Hours.
Laboratory for PH 201. Lecture, laboratory, and recitation must be taken concurrently.

PH 201R. College Physics I Recitation. 0 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 resicitation 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 resicitation 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 202R. College Physics II - Recitation. 0 Hours.
Second term of non-calculus based physics sequence covering electricity and magnetism, optics, and modern physics. Lecture, laboratory, and resicitation must be taken concurrently.

PH 211. College Physics I Laboratory. 1 Hour.
College Physics I Laboratory.

PH 212. College Physics II Lab. 1 Hour.

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.
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, laboratory, and resicitation must be taken concurrently.

PH 222. General Physics II. 4 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 222 General Physics II Honors: This section of PH 222 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: PH 221 [Min Grade: C] and MA 126 [Min Grade: C]

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 Resicitation 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.

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 352. 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.
Vector calculus. Curvilinear coordinate systems. Commonly encountered ordinary differential equations and special functions. Complex variables and contour integration. Partial differential equations, including solutions by Green function methods.
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.
Vector calculus. Curvilinear coordinate systems. Commonly encountered ordinary differential equations and special functions. Complex variables and contour integration. Partial differential equations, including solutions by Green function methods.
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.
Applied geometrical and wave optics. Paraxial ray optics, optical matrix theory, aberrations, optical imaging systems, and computer-based optical design. Optical interferometry, diffraction, holography, polarization phenomena, coherence theory, lasers, and Gaussian beam propagation.
Prerequisites: PH 222 [Min Grade: C]

PH 426. Applications of Contemporary Optics II. 3 Hours.
Applied geometrical and wave optics. Paraxial ray optics, optical matrix theory, aberrations, optical imaging systems, and computer-based optical design. Optical interferometry, diffraction, holography, polarization phenomena, coherence theory, lasers, and Gaussian beam propagation.
Prerequisites: PH 425 [Min Grade: C]

PH 427. Geometrical Optics. 4 Hours.
Properties of optical systems. Lenses, mirrors, and stops. Aberrations. Rays and wave fronts. Optical instruments. Aspheric components. Lecture and laboratory must be taken concurrently.
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.
Interference and diffraction phenomena. Emission, propagation, and absorption of radiation. Polarization and dispersion. Stimulated emission. Lecture and laboratory must be taken concurrently.
Prerequisites: PH 222 [Min Grade: C]

PH 428L. Physical Optics Laboratory. 0 Hours.
Laboratory for PH 428. Lecture and laboratory must be taken concurrently.

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 450 [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 461. Classical Mechanics I. 3 Hours.
Kinematics and dynamics, including central forces, rotating coordinate systems, and generalized coordinates. Lagrangian, Hamiltonian, and other equivalent formulations of mechanics.
Prerequisites: PH 222 [Min Grade: C] and (MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])

PH 462. Classical Mechanics II. 3 Hours.
Kinematics and dynamics, including central forces, rotating coordinate systems, and generalized coordinates. Lagrangian, Hamiltonian, and other equivalent formulations of mechanics.
Prerequisites: PH 461 [Min Grade: C]

PH 467. Special Relativity. 3 Hours.
Principles and foundations of special relativity with applications to mechanics and electrodynamics.
Prerequisites: PH 446 [Min Grade: C] and PH 462 [Min Grade: C]

PH 468. General Relativity. 3 Hours.
Gravitational phenomena associated with and resulting from linear field equations. Equivalence principle, its implications of non-linear field, and physical consequences.

PH 471. Fundamentals of Spectroscopy. 3 Hours.
Explanation of phenomena related to rotational vibration and electronic spectroscopy of atoms and molecules; operational principles of spectroscopic tools including diffraction grating, waveguides and interferometers, basic group theory concepts and notation.

PH 475. Introduction to Biophysics I. 3 Hours.
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, and bio-nanotechnology. Emphasis on systems that are best understood in physical and molecular detail. Systems will direct study, with modern physical methods introduced as needed.
Prerequisites: PH 351 [Min Grade: C]

PH 476. Introduction to Biophysics II. 3 Hours.
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, and bio-nanotechnology. Emphasis on systems that are best understood in physical and molecular detail. Systems will direct study, with modern physical methods introduced as needed.
Prerequisites: PH 475 [Min Grade: C]

PH 481. Laser Physics I. 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 222 [Min Grade: C]

PH 481L. Laser Physics I Laboratory. 0 Hours.
Laboratory for PH481. Lecture and laboratory must be taken concurrently.

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 tunablelasers. 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 earlymodern 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: Socrates 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.
Prerequisites: PHL 220 [Min Grade: C] or MA 120 [Min Grade: C]

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 taughtby 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).
Prerequisites: EC 210 [Min Grade: C]

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.
Prerequisites: EC 210 [Min Grade: C]

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 systemically the llibertarian 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 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 topcs insome 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 topcs insome 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 topcs insome 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.

PHS 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.

PHS 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.

PHS 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.

PHS 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 signficant 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 jurors; 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 signficant 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 though from early modern era to contemporary debates from Machiavelli to King. We examine the innovation of social contract theories and the revolutionart 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 II. 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 395. 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 requirments in Quantitative Literacy and Writing.

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: D]

PSC 430. American Constitutional Law I. 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 461. 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

PTDS-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.

PUH 201. The Origins of Epidemics: How Public Health Defines Population and Nations. 3 Hours.
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.

PUH 301. Origins of Epidemics: How Public Health Defines Population and Nations. 3 Hours.
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. Later in 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 witha an appreciation of the interdisciplinary nature of global health, its history, successes to date, and current challenges. Studetn will be introduced to basic concspts 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 worlwide, Lectures, discussion, and case studies wil 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.
Psychological methods applied to health problems. Development of medical problems, psychological/behavioral treatment of medical disorders, prevention of disease, and promotion of health.
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 acquistion 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 electrical, 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 psychobiology 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.
Physiology, pharmacology, and anatomy of acute and chronic pain. How medical treatments relieve pain. Stress-induced analgesia, transcutaneous electrical stimulation, acupuncture, inflammation, and psychological approaches to treatment of pain.
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 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 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-termsynaptic 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 Pschology 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]) and LS 246 [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 LS 246 [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 GPAU 2.00 and GPAO 2.00) or (EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAU 2.00 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 GPAU 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 LS 246 [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 LS 246 [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 EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C]) or (GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C])

QM 442. 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 (GPAU 2.00 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](GPAT and GPAO 2.00) or (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 diesases 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 415. Directed Study in Respiratory Care II. 2 Hours.
Study of bedside calculations frequently confronting respiratory care practitioner; student discussion and demonstration of data interpretation including graphic representation of the data. Student demonstrates ability to use calculated bedside data in clinical problem-solving and ability to change therapy based conclusions. Quantitative Literacy is a significant component of this course (QEP).

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, hemodyanmic 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 preventive 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 syndrom 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, literataure 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'sperformance 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 inservice 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 didatic 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-levl 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. Polysomngraphy Technology II. 2 Hours.
Advanced topic in lecture and laboratory on techniques used in the Polysomnography clincial setting. This includes calibration, recording and scoring of sleep study data. Patient disease states coimmonly diagnosed in the sleep laboratory.

RST 463. Polysomnographic Technology Clinical II. 2 Hours.
This course provides the student with advanced patient contact in serveral 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 promotionand 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 seriesand 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 seminarseries 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 empahsis 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 315. The Sociology of Terrorism. 3 Hours.
Examination of the social and social psychological explanations of the phenomenon, with particular emphasis given to theories of social construction of terrorism.

SOC 316. Popular Culture. 3 Hours.
Relationship between popular culture, our cultural heritage, and present cultural identity. Connections with big business, music, sports, politics, film and mass media. Analyze cultural objects (movies), compare past mindsets with the present.

SOC 317. Sociology of Social Media. 3 Hours.
Communication and information technology as a product of social, economic, political, cultural forces. Its impact on everyday life. Focus on the Internet and how individuals use it to gather, distribute and convey information.

SOC 319. Sociology of The South. 3 Hours.
Focus on the South as a unique region. Examing areas such as history, politics, race relations, religion, music, personality, social types and collective behavior.
Prerequisites: SOC 100 [Min Grade: C]

SOC 320. Sociology Through Fiction. 3 Hours.
Sociological theories and concepts as illustrated in contemporary fiction. Classes will vary in terms of the fictional genre explored.

SOC 323. Social Structure and Personality. 3 Hours.
Interaction of social structure and personality; motivation, cognition, and impact of family, social class, and other institutions on personality development and mental illness.

SOC 335. Human Sexuality: A Comparative Approach. 3 Hours.
Sexual identity from a sociological perspective. Topics include: theories of sexual orientation, social movements related to sexual identity, development of sexual identity over the life course, and relationship to social institutions such as the family, medical community, and legal system.

SOC 336. Sport and Society. 3 Hours.
Sociological analysis of sport in contemporary societies. Sport as microcosm of society and modern institution; socialization process, problems of racial and sexual inequality, aggression and violence, mass media, and societal change.

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. Sociology of Aging. 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 socail 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 108. Introductory Intensive Spanish. 4 Hours.
Accelerated essentials of language and culture needed for communication. Includes listening comrehension, speaking, writing, and reading. Fast-paced review of SPA 101 and SPA 102. Conducted in Spanish. (CORE AREA II).

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 Spainsh-speaking professional culture, course emphasizes elementary-level conversation acquisition and vocabulary. Conducted in Spainsh.

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 signficant 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 represenative 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 Spainsh.

SPA 409. Spanish-Speaking Nobel Laureates. 3 Hours.
Literary master-pieces of the Spanish-speaking world. Conducted in Spanish.

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 ejeplares. 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-speaking 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 150. 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 understand 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.
Oversight 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 professionala in a range of fields or practice. Students will be afforded the oppprtunity to examine their own personal values and how those values influence their views on social welfare problesm 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, 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).

SW 339. Child Welfare in Social Work. 3 Hours.
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 marco 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 494 [Min Grade: C](Can be taken Concurrently)

SW 494. Practicum Seminar. 3 Hours.
The capstone course in Social Work is an integrative seminar that must be taken concurrently with SW 490 The Practicum 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 490 [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 quantitative 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 practicum 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 practicum 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 Stanislavaski'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 325 [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 Henric 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 operation 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 the 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 concenpts of electronics that are relavance 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 amplifer and fitler, 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 GenderStudies 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 stuies. 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.

Faculty Listing

A (p. 493) - B (p. 494) - C (p. 496) - D (p. 499) - E (p. 501) - F (p. 501) - G (p. 503) - H (p. 504) - I (p. 507) - J (p. 507) - K (p. 508) - L (p. 510) - M (p. 512) - N (p. 516) - O (p. 517) - P (p. 517) - Q (p. 519) - R (p. 519) - S (p. 521) - T (p. 524) - U (p. 526) - V (p. 526) - W (p. 527) - X (p. 529) - Y (p. 529) - Z (p. 529)

Aban, Inmaculada (Chichi) School of Public Health

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

Affuso, Olivia Thomas School of Public Health

Department of Epidemiology, Associate Professor (Epidemiology), Chronic Disease Epidemiology, Physical Activity and Chronic Disease Prevention

Agresti, David G. College of Arts and Sciences

Department of Physics, Professor Emeritus of Physics, 1969, B.S. (Ohio State), M.S., Ph.D. (Caltech), Astrophysics; condensed matter physics

Ahmad, Wajih School of Education

Department of Human Studies , Assistant Professor of Health Education, 1998, B.S., M.Ph., Ph.D. (UAB)

Alexander, J. Iwan School of Engineering

Department of Engineering, Dean and Professor of Engineering, 2013, B.Sc. (University College Swansea, Wales, U.K.); Ph.D. (United World College of the Atlantic, Wales, U.K.); Ph.D. (Washington State)

Alexander, James R. 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)

Amsbary, Jonathan H. College of Arts and Sciences

Department of Communication Studies, Associate Professor of Communication Studies, 1988, B.A. (New Mexico), M.A., PhD. (Indiana)

Amsler, Charles D. Jr. College of Arts and Sciences

Department of Biology, Professor of Biology, 1994, A.B. (Duke), M.S. (North Carolina-Wilmington), Ph.D. (California-Santa Barbara), Marine Ecophysiology, Chemical Ecology, and Polar Biology

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., PhD. (Florida), P.E. (Alabama), Polymer and Metal Matrix Composites, Solidification, Physical Metalurgy

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 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 Physican 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

Assistant Professor of Nursing, 2011, B.S.N., M.S.N, D.N.P. (UAB)

Ball, Karlene K. College of Arts and Sciences

Department of Psychology, University Professor and Chair, Department of Psychology; Director, Center for Research in Applied Gerontology; Professor of Psychology, Associate Director, Comprehensive Center for Healthy Aging, 1996, B.A. (Indiana), M.S., Ph.D. (Northwestern)

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. L. College of Arts and Sciences

Department of Computer and Information Sciences, Professor Emeritus of Computer and Information Sciences, 1968, B.S. (Birmingham, England), M.B.A. (UAB), Ph.D., D.Sc. (Birmingham, England)

Barrett, Doug College of Arts and Sciences

Department of Art 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 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)

Beasly, Timothy Mark School of Public Health

Department of Biostatistics, Associate Professor, Ph.D. (Southern Illinois - Carbondale), Linear Models, Linkage and Association with Quantitative Traits, Nonparametric Methods, Microarray Analysis.

Becker, Brooke A. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library, 2003, B.A. (Samford), M.L.I.S. (Alabama)

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

Blythe, Clyde Randolph Jr. College of Arts and Sciences

Department of English, Instructor of English, 2000, B.A., M.A. (UAB), M.F.A., Ph.D. (Alabama)

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)

Bowen, David M. School of Health Professions

Department of Health Informatics, Adjunct Professor (Health Services Administration)

Bowen, Pamela School of Nursing

Assistant Professor of Nursing, 2005, B.S.N. (UAB), B.A. (Faulkner), M.S.N., Ph.D. (UAB)

Boyar, Scott L. School of Business

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)

Boylan, Douglas M. School of Engineering

Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2005, B.S., M.S., Ph.D. (Tulane)

Brande, Scott College of Arts and Sciences

Department of Chemistry, Associate Professor of Chemistry, 1979, B.S. (Rochester), M.S. (California Institute of Technology), Ph.D. (SUNY-Stony Brook)

Braswell, Mary Flowers College of Arts and Sciences

Department of English, Professor of English, 1969, B.A., M.A. (Alabama), Ph.D. (Emory)

Braziel, James College of Arts and Sciences

Department of English, Assistant Professor of English; Co-Director, Creative Writing Program, 2010, B.A. (Georgia), M.F.A (Bowling Green State)

Britt, Sylvia E. School of Nursing

Assistant Professor of Nursing, 2007, B.S.N. (Medical College of Georgia), M.S.N., D.S.N. (UAB)

Brock, Joanne School of Health Professions

Department of Clinical and Diagnostic Sciences, Assistant Professor, M.S.

Brooks, Amy School of Nursing

Instructor of Nursing; Coordinator of AMNP program, 2009, B.S.N., M.S.N., D.N.P. (UAB)

Brooks, Michael School of Education

Department of Human Studies , Assistant Professor of Counseling, 2004, B.A. (Morehouse College), M.A. (Central Florida), Ph.D. (Central Florida)

Brouillette, Christie G. College of Arts and Sciences

Department of Chemistry, Emeritus Research Professor of Chemistry, 2006, B.S. (West Florida), Ph.D. (Kansas)

Brouillette, Wayne J. College of Arts and Sciences

Department of Chemistry, Emeritus Professor of Chemistry, 1979, B.S. (West Florida), M.S., Ph.D. (Kansas)

Brown, Kathleen School of Nursing

Chair, Community Health, Outcomes and Systems; Professor of Nursing, 1979, B.S.N. (Louisiana State), M.S. (Boston), Ph.D. (Case Western Reserve)

Brown, Michelle School of Health Professions

Department of Clinical and Diagnostic Sciences, Assistant Professor, 2008, M.S. (UAB)

Bryant, Pamela School of Nursing

Instructor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

Burke, Darrell School of Health Professions

Department of Health Administration, Associate Professor (Health Services Administration) , Operations Management, Health Informatics; Quality Improvement; IT Management

Burns, Joseph C. School of Education

Department of Curriculum and Instruction, Associate Professor of Elementary and High School Education, 1984, B.S. (Grove City), M.Ed., Ed.D. (Georgia)

Burns, Richard M. School of Business

Department of Accounting and Finance, Professor of Finance, 1987, B.S. (Alabama), M.B.A. (UAB), Ph.D. (Georgia)

Butcher, Daniel L. College of Arts and Sciences

Department of English, Instructor of English, 2001, B.A. (Mississippi), M.L.I.S., M.A. (Louisiana State)

Calhoun, Charles School of Education

Department of Curriculum and Instruction, Associate Professor of Elementary Education, 1989, B.A. (Earlham), M.A.Ed., Ph.D. (Georgia State)

Callahan, Dale School of Engineering

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

Camata, Renato College of Arts and Sciences

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

Camp, Sherman V. College of Arts and Sciences

Department of English, Instructor of English, 2006, B.S. (Alabama), M.A. (UAB)

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

Mervyn H. Sterne Library, Associate Librarian, References Services, Mervyn H. Sterne Library, 2001, B.A. (UAB), M.A., M.Ed. (UAB), M.L.I.S. (Alabama)

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 Physican 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. (Lander), 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

Clements, Kay 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)

Cofield, Stacy S. 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.

Collins, Loucrecia School of Education

Department of Human Studies , Associate Professor of Educational Leadership, 2000, B.S., M.A., Ed.D. (Mississippi State)

Conley, Carolyn A. 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

Department of Electrical and Computer Engineering, Professor Emeritus and Chair Emeritus of Electrical and Computer Engineering, 1978, B.E.E., (Auburn), Ph.D. (Georgia Institute of Technology), P.E. (Alabama, Tennessee, Kentucky), Electrical Circuit Analysis and Design, Reverse Engineering of Elecrical Systems, Mathematical Modeling of Electrical Systems

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 College of Arts and Sciences

Department of Anthropology, Associate Professor of Anthropology, 2000, B.S. (Florida), M.A. (UAB), Ph.D. (Tulane)

Cowart, Larry School of Business

Department of Accounting and Finance, Assistant Professor of Finance, 2007, B.S. (Athens), M.B.A. (Samford), Ph.D. (Georgia)

Cox-Edmondson, Vicki School of Health Professions

Department of Administration Health Services, Associate Professor (Management): Strategy, Entrepreneurship, Corporate Social Responsibility and Business Ethics, Organizational Behavior, and Constraints Management

Cracco, Derek A. College of Arts and Sciences

Department of Art Art History, Associate Professor of Art, 1999, B.F.A. (Louisiana State), M.F.A. (Syracuse)

Crawford, Martin School of Engineering

Department of Mechanical Engineering, Professor Emeritus of Mechancial Engineering, 1968, B.S., M.S. (Tennessee), Ph.D. (Georgia Institute of Technology), P.E. (Alabama)

Crigler, Paul School of Business

Department of Management, Information Systems, and Quantitative Methods , Instructor of Information Systems, 2004, B.S. (Auburn); B.S., M.S. (UAB)

Crooks, Elizabeth School of Nursing

Instructor of Nursing, 2011, B.S.N. (Catholic University of America), M.S.N. (Case Western Reserve), D.N.P. (UAB)

Crowe, Michael College of Arts and Sciences

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 College of Arts and Sciences

Department of English, Instructor of English, 2005, B.A. (Southern Mississippi), M.A. (UAB)

Culver, Sarah E. School of Business

Department of Marketing, Industrial Distribution, Economics, Associate Professor of Economics, 1993, B.S., M.A., Ph.D. (Houston)

Cummings, Cathleen A. College of Arts and Sciences

Department of Art Art History, Associate Professor of Art History, 2006, B.A. (Mills College), M.A. (University of London), M.A. and Ph.D. (Ohio State)

Cunningham, Anthony "Deek" School of Health Professions

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. College of Arts and Sciences

Department of Biology, Associate Professor of Biology, 1988, B.S. (UAB), M.S. (Samford), Ph.D. (UAB), General Biology and Reproductive Biology

Cutter, Gary School of Public Health

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.

Dahle, Karen B. School of Education

Department of Curriculum and Instruction, Associate Professor of Special Education, 1999, B.S. (James Madison), M.S. (Radford), Ed.D. (Virginia Tech)

Dailey, Kelly School of Nursing

Instructor of Nursing, 2012, B.S.N. (Samford), M.S.N. (UAB)

Dale, Louis College of Arts and Sciences

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 College of Arts and Sciences

Department of Art Art History, Associate Professor of Art History, 2002, B.A. (San Diego), M.A., Ph.D. (North Carolina-Chapel Hill)

Daniel, Melanie School of Nursing

Instructor of Nursing, 2008, B.S.N., M.S.N. (UAB)

Daniels, Melissa College of Arts and Sciences

Department of English, Professor of English, 2013, B.A. (University of La Verne), M.A. (Georgia), Ph.D. (Emory)

Daniélou, Catherine F. College of Arts and Sciences

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)

DasGupta, Manabendra School of Business

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. School of Nursing

Instructor of Nursing, 2008, B.A., B.S., M.B.A. (Samford), M.A. (Seton Hall)

Davis, Colin J. College of Arts and Sciences

Department of History, Professor of History, 1991, B.A. (Warwick-Coventry, England), M.A., Ph.D. (SUNY-Binghamton)

Daw, Jonathan College of Arts and Sciences

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 School of Nursing

Assistant Professor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

de los Campos, Gustavo School of Public Health

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 School of Health Professions

Department of Nutrition Sciences, PhD Associate Professor (Nutrition Sciences); Genetics of fat storage and innate immune function, Obesity, Aging.

Dean, Derrick R. School of Engineering

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. School of Business

Department of Marketing, Industrial Distribution, Economics, Professor of Marketing and Industrial Distribution, 2007, B.S. (N. Carolina State), Ph.D. (Georgia)

Delzell, Elizabeth School of Public Health

Department of Epidemiology, Professor (Epidemiology); Occupational Epidemiology, Chronic Disease Epidemiology, Cancer Epidemiology, Pharmacoepidemiology

Demark-Wahnefried, Wendy School of Health Professions

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. College of Arts and Sciences

Department of History, Assistant Professor of History, 2011, B.A. (Aquinas College), M.A. (Marquette), Ph.D. (Illinois-Urbana)

Denton, Betty G. School of Health Professions

Department of Physical Therapy, Associate Professor Emerita (Physical Therapy); Curriculum Development

Descartes, Maria School of Health Professions

Department of Genetic Counseling, MD, Medical Director and Associate Professor of Genetics

Deupree, Joy School of Nursing

Assistant Professor of Nursing, 2011, B.S.N., M.S.N., Ph.D. (UAB)

DeVore, Todd E. College of Arts and Sciences

Department of Physics, Instructor of Physics, 1998, B.S. (Lewis and Clark), M.S. PhD. (UAB), Physics and science education; computational physics

Di Gangi, Paul School of Business

Department of Management, Information Systems, and Quantitative Methods, Assistant Professor of Information Systems, 2013, B.S. (Quinnipiac), M.S. (George Washington), Ph.D. (Florida State)

DiCecco, Jennifer School of Nursing

Instructor of Nursing, 2007, B.S. (Grand Canyon) B.S.N., M.S.N. (Arizona)

Dickinson, Dale A. School of Public Health

Department of Environmental Health Sciences, Ph.D., Assistant Professor and Graduate Program Director - , Molecular mechanisms of the adaptive response to environmental toxicants and pollutants; mechanism of action of naturally occurring compounds; induction of glutathione; functional genomics proteomics of naturally occurring compounds

Dobbins, Allen C. School of Engineering

Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 1996, B.Sc. (Dalhousie), B.S.E., M.S.E., Ph.D. (McGill), Human and machine vision, Neural computation, Brain imaging, Scientific visualization

Dobbs, Joel School of Business

Department of Management, Information Systems, and Quantitative Methods, Entrepreneur in Residence, 2011, M.Sc. (UAB)

Dominick, Ann M. School of Education

Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2010, B.A. (Auburn), M.A.Ed. (UAB), Ed.D. (Vanderbilt)

Dorsey, Amanda D. School of Health Professions

Department of Health Informatics, M.S.H.I., Instructor Assistant Program Director (Health Services Administration)

Doss, Harriet E. Amos College of Arts and Sciences

Department of History, Associate Professor of History, 1978, B.A. (Agnes Scott), M.A., Ph.D. (Emory)

Downs, Lauren College of Arts and Sciences

Department of Anthropology, Visiting Assistant Professor, 2013, B.A. (North Carolina), M.A., Ph.D. (Alabama)

Drace, William R. School of Health Professions

Department of Surgical Physican Assistant Studies, Assistant Professor; Director of Admissions; Cardiothoracic Surgery

Drentea, Patricia College of Arts and Sciences

Department of Sociology, Associate Professor of Sociology, 1999, B.A. (Wisconsin), M.A., Ph.D. (Ohio State)

Drnevich, Dawn School of Business

Department of Accounting and Finance, Assistant Professor of Accounting, 2010, Ph.D. (Texas Tech)

Dudgeon, Brian J. School of Health Professions

Department of Occupational Therapy, Department Chair and Professor, Ph.D., OTR/L, FAOTA

Dudley, Patricia School of Nursing

Instructor of Nursing, 2006, B.S.N, M.S.N. (Samford)

Dunbar, Jessie College of Arts and Sciences

Department of English, Assistant Professor of English, 2013, B.A. (Clark Atlant University), M.A. (Georgia), Ph.D. (Emory)

Duncan, W. Jack School of Public Health

Department of Health Care Organization and Policy, PhD, Professor of Management and University Scholar Emeritus

Dwyer, Zoe. B. School of Engineering

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 College of Arts and Sciences

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

Edison, Christopher School of Health Professions

Department of Occupational Therapy, Assistant Professor (Occupational Therapy), MSOT, OTR/L

Edmonds, Christopher School of Business

Department of Accounting and Finance, Assistant Professor of Accounting, 2013, B.S. (Colarado State), M.B.A. (UAB), Ph.D. (Virginia Tech)

Edmonds, jennifer School of Business

Department of Accounting and Finance, Assistant Professor of Accounting, 2013, B.S. (Birmingham-Southern), M.Acc. (Virginia Tech), Ph.D. (Virginia Tech)

Elias, Beth L. School of Nursing

Assistant Professor of Nursing, 2009, B.S. (State University of New York), M.S., Ph.D. (Virginia)

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 Nurisng, 2009, B.S.N. (Berea College), M.S.N., Ph.D. (Cincinnati)

Ernest, James R. School of Education

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 defibrilation

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

Ferniany, 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

Department of History, Instructor of Digital Community Studies, 2010, B.A. (Harvard), M.A. (UAB)

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 Atheroslcerosis 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 Eletrical and Computer Engineering, 2013, B.S., M.S. (Tsinghua University, Beijing) M.S., Ph.D. (Georgia Tech), Image Analysis, Coputer 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

Gargiulo, Richard M. School of Education

Department of Curriculum and Instruction, Professor of Special Education, 1982, B.A. (Hiram Scott), M.S. (Wisconsin-Milwaukee), Ph.D. (Wisconsin)

Garrie, Robert L. School of Health Professions

Department of Health Services Administration, Associate Professor, Health Information Management Program, 1990, M.P.A. (Roosevelt)

Geiger, Brian 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. (Mahtma 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

Gilchrist, Jody 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, Conctruction, and Environmental Engineering, 2009, B.S. (Samford), Meng-CEM (UAB), Engineering Online Education, Learning Management System Applications, Student Retention in Online Learning Programs

Ginter, Peter M. School of Public Health

Department of Health Care Organization and Policy, PhD, Professor

Goldman, Renitta L. School of Education

Department of Curriculum and Instruction, Professor of Special Education, 1984, B.A. (Washington), M.S. (North Carolina State), Ph.D. (Missouri)

Golightly, Beverly School of Health Professions

Department of Health Informatics, M.S.H.A., Credit Course Instructor (Health Services Administration)

Goodin, Burel College of Arts and Sciences

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, PhDProfessor (Nutrition Sciences); Endocrinology, Body Composition, Postmenopausal Hormone Replacement Therapy, Insulin Sensitivity

Graham, Cecilia School of Health Professions

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)

Grau, Grace School of Nursing

Instructor of Nursing, 2011, B.S.N. (Miami), M.S.N. (UAH)

Graveline, Jeffrey D. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Associate Librarian, Reference Services, Mervyn H. Sterne Library, 2006, B.A. (Virginia Tech), M.L.I.S., J.D. (Alabama)

Graves, David E. College of Arts and Sciences

Department of Chemistry, Professor of Chemistry; Chair, Department of Chemistry, 2003, B.S., Ph.D. (UAB)

Graves, Lila V. College of Arts and Sciences

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. (Virgina), 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

Grimes, L. Kyle College of Arts and Sciences

Department of English, Associate Professor of English, 1990, B.A. (Dartmouth), M.A., Ph.D. (Illinois)

Grimes-Robison, Cindy School of Nursing

Instructor of Nursing, 2003, B.A. (Alabama), B.S.N., Ph.D. (UAB), M.Ed. (Montevallo), M.S.N (Troy State)

Grostick, Sara S. School of Health Professions

Department of Health Informatics, M.A., Associate Professor (Health Services Administration)

Guest, Kristi C. College of Arts and Sciences

Department of Psychology, Assistant Professor of Psychology, 2003, B.S., M.A., Ph.D. (UAB)

Gunnels, Ken School of Business

Department of Management, Information Systems, and Quantitative Methods, Instructor of Information Systems, 2011, B.S. (UAB); M.B.A. (Samford); M.S., MIS, Ph.D. (Alabama)

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)

Gurley, Dennis Keith School of Education

Department of Human Studies, Assistant Professor; (Leadership) , 2012, Pre-Service and In-Service Development for School Leaders, Professional Learning Communities, and Organizational Theory

Haddin, Theodore College of Arts and Sciences

Department of English, Associate Professor of English, Emeritus, 1973, B.A., M.A., Ph.D. (Michigan)

Hadley, Mark School of Business

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)

Haider, Mohammad School of Engineering

Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2011, Ph.D. (Tennessee-Knoxville), Low-power Sensor Electronics, Wireless Telemetry, and Wireless Power Transfer

Hall, Cheryl D. College of Arts Science

Department of Theatre, Assistant Professor of Theatre, 1989, B.A. (Southern Illinois), M.F.A. (Arizona)

Hall, Randa S. School of Health Professions

Department of Health Administration, Assistant Professor (Health Services Administration); Medical Practice Management

Hall, Sean School of Education

Department of Human Studies, Visiting Assistant Professor, 2012, Counselor Education, Clinical Mental Health Counseling, Assessment and Intervention Techniques, Processes and Outcomes Research, Dropout Prevention

Hallman, Melanie School of Nursing

Instructor of Nursing, 1998, B.S.N., M.S.N. (UAB)

Hamilton, Denise School of Health Professions

Department of Health Administration, Instructor (Health Services Administration): Health Care Finance

Hamilton, Harry College of Arts and Sciences

Department of Sociology, Teaching Associate Professor of Sociology, 2005, B.A., M.A., Ph.D. (UAB)

Hamilton, Sharon School of Nursing

Instructor of Nursing, 2010, B.S.N. (UAB), M.S.N. (Catholic)

Hamilton, Tracy P. College of Arts and Sciences

Department of Chemistry, Associate Professor of Chemistry, 1991, B.S., M.S., Ph.D. (Arkansas)

Hammack, Glenn G. School of Health Professions

Department of Health Informatics, O.D., M.S.H.I., Assistant Professor (Health Services Administration)

Hammond, Stephanie School of Nursing

Instructor of Nursing, 2010, B.S.N. (Alabama), M.S.N. (UAB)

Han, Youngshook School of Nursing

Assistant Professor of Nursing, 1996, B.S.N. (Chungnam National University), M.S.N., Ph.D. (Wisconsin)

Hansen, John School of Business

Department of Marketing, Industrial Distribution, and Economics, Assistant Professor of Marketing, 2009, B.S., M.B.A. (Troy), Ph.D. (Alabama)

Haque, Akhlaque College of Arts and Sciences

Department of Government, Associate Professor of Government 1995, 1995, B.S. (Dhaka), M.A., Ph.D. (Cleveland State)

Hardin, J. Michael School of Health Professions

Department of Health Informatics, Ph.D., Credit Course Instructor (Health Services Administration)

Harper, Doreen School of Nursing

Professor and Dean of Nursing, 2005, B.S.N. (Cornell), M.S.N. (Catholic), Ph.D. (Maryland)

Harrelson, Paul M. School of Health Professions

Department of Surgical Physican 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)

Harris, Yolanda School of Nursing

Instructor of Nursing, 2011, B.S.N. (Samford), M.S.N. (UAB)

Harrison, Joseph G. 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 nonoparticle-facilitated hyperthermia

Hasan, Ragib College of Arts and Sciences

Department of Computer and information Sciences, Assistant Professor of Computer and Information Sciences, 2011, B.S. (Bangladesh), M.S., Ph.D. (Illinois Urbana-Champaign)

Hataway, Connie School of Nursing

Instructor of Nursing, 2008, B.A. (Brenua College), A.S.N. (Troy State), M.S.N. (Samford)

Hawk, James F. College of Arts and Sciences

Department of Physics, Lecturer Emeritus in Physics, 1956, B.A. (Virginia), A.M. (Washington)

Heaton, Karen School of Nursing

Assistant Professor of Nursing, 2008, BSN (UAB), MSN (Louisville) Ph.D. (Kentucky)

Hendricks, Peter School of Public Health

Department of Health Education and Health Promotion, Assistant Professor, SOPH, Health Behavior

Hernandez, S. Robert School of Health Professions

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

Herzig, Terrell W. School of Health Professions

Department of Health Informatics, M.S.H.I., Credit Course Instructor (Health Services Administration)

Hess, Annette School of Nursing

Assistant Professor of Nursing, 1984, B.S.N. (Auburn), M.S.N. (Troy State), Ph.D. (UAB)

Hester, Donna J. School of Education

Department of Human Studies , Associate Professor of Physical Education, 1983, B.S., M.A., Ph.D. (Ohio State)

Hettich, Dana L. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library, 2008, B.A., M.A., M.L.I.S. (Alabama)

Hicks, Joan C. School of Health Professions

Department of Health Informatics, M.S.H.I., Assistant Professor (Health Services Administration)

Hickson, Mark III College of Arts and Sciences

Department of Communication Studies, Professor of Communication Studies, 1987, B.S., M.A. (Auburn), M.A. (Mississippi State), Ph.D. (Southern Illinois)

Hiett, Tee H. School of Health Professions

Department of Administration Health Services, Professor Emeritus (Health Services Administration); Health Care Computer Applications, Data Processing in Health Care

Hill, Aubrey College of Arts and Sciences

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)

Hill, Gail School of Nursing

Associate Professor of Nursing, 1984, B.S. (Alabama), B.S.N., M.S. (Texas Woman's University), Ph.D. (UAB)

Hilton, David College of Arts and Sciences

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

Hitchcock, Laurel College of Arts and Sciences

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)

Hitchcock, Wilbur A. School of Engineering

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

Hites, Lisle School of Public Health

Department of Health Care Organization and Policy, PhD, Assistant Professor

Hodges, Ashley School of Nursing

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)

Holcomb, Lygia School of Nursing

Associate Professor of Nursing, 2006, B.S.N., M.S. (Missouri), D.S.N. (UAB)

Holloway, Stacey College of Arts Sciences

Department of Art Art History, Visiting Assistant Professor of Art, 2009, B.F.A (Purdue), M.F.A. (Minnesota-Twin Cities)

Holmes, Robert E. School of Health Professions

Department of Administration Health Services, Professor (Management); Business Education and Reform, Entrepreneurship, Strategic Management

Holt, R. Lynn School of Health Professions

Department of Genetic Counseling, MS, CGC, Program Director and Assistant Professor

Hood, Anthony School of Business

Department of Management, Information Systems, and Quantitative Methods, Assistant Professor, 2011, B.S., M.S. (UAB), Ph.D. (UAB)

Hopkins, Maria College of Arts and Sciences

Department of Psychology, Assistant Professor of Psychology, Director, Undergraduate Studies of Psychology, 2007, B.S., M.A., Ph.D. (UAB)

Hosch, Ian E. School of Engineering
Department of Civial Construction, and Environmental Engineering, Assistant Professor of Civil, Construction and Environmental Engineering, 2012, B.S.C.E., M.S.C.E, Ph.D. (UAB), Structural Engineering, Engineering Mechanics, Geotechnical Engineering

Houser, Howard W. School of Health Professions
Department of Administration Health Services, Professor Emeritus (Health Services Administration) History of Health Care Systems, General Administration, Comparative Health Systems

Houser, Shannon School of Health Professions
Department of Health Services Administration, Associate Professor of Health Information Management Program, 2004, Ph.D. (UAB)

Houston, Thomas K. School of Health Professions
Department of Health Informatics, II, M.D., Assistant Professor (Medicine, General/Internal)

Howard, George School of Public Health
Department of Biostatistics, DrPH (North Carolina), Professor. Design and Analysis of Multi-center Clinical Trials, Application of Statistical Methods in Epidemiological Studies, Linear Models.

Howard, Jack Lee School of Business
Department of Management, Information Systems, and Quantitative Methods , Professor of Management, 2009, B.S., A.M., Ph.D. (University of Illinois at Urbana-Champaign)

Howard, Virginia School of Public Health
Department of Epidemiology, Professor (Epidemiology); Cardiovascular Disease Epidemiology, Stroke Epidemiology

Huang, Xuan School of Business
Department of Management, Information Systems, and Quantitative Methods, Assistant Professor of Quantitative Methods, 2010, B.E. (Tsinghua University, Beijing), M.Sc., Ph.D. (Massachusetts, Amherst)

Hunter, Gary R. School of Education
Department of Human Studies , Professor of Physical Education, 1984, B.S. (Eastern Michigan), M.A., Ph.D. (Michigan State)

Hurst, Christina B. School of Health Professions
Department of Genetic Counseling, MS, CGC, Assistant Program Director and Assistant Professor

Hurst-Wajszczuk, Kristine College of Arts and Sciences
Department of Music, Associate Professor of Music, 2007, B.M., M.M. (Westminster Choir-Rider), D.M.A. (Colorado-Boulder)

Hutchings, John William College of Arts and Sciences
Department of English, Professor of English, 1981, A.B. (Transylvania), M.A., Ph.D. (Kentucky)

Hutchison, Jeanne S. College of Arts and Sciences
Department of Mathematics, Assistant Professor of Mathematics, 1970, B.S. (Creighton), M.A., Ph.D. (California-Los Angeles)

Hutson, Susan Perkins School of Health Professions
Department of Clinical and Diagnostic Sciences, Associate Professor Emeritus, Respiratory Therapy Program, 1976, M.A.E. (UAB)

Hyatt, Robert M. College of Arts and Sciences
Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences, 1988, B.S., M.S. (Southern Mississippi), Ph.D. (UAB)

Ibelema, Minabere College of Arts and Sciences
Department of Communication Studies, Associate Professor of Communication Studies, 1995, B.A. (Wilberforce), M.A., Ph.D. (Ohio State)

Iddins, Brenda School of Nursing
Instructor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

Irvin, M. Ryan School of Public Health
Department of Epidemiology, Assistant Professor (Epidemiology); Genetic Epidemiology of Cardiometabolic Diseases; Pharmacogenetics

Irving, Howard L. College of Arts and Sciences
Department of Music, Professor of Music; Chair, Department of Music, 1981, B.Mus. (Centenary), M.M., Ph.D. (Louisiana State)

Ivey, Jean School of Nursing
Associate Professor of Nursing, 2002, B.S.N. (UAB), M.S.N. (Texas at Galveston), D.S.N. (UAB)

Jablonski, Rita S. School of Nursing
Associate Professor of Nursing, 2012, B.S.N. (Holy Family), M.S.N. (La Salle), Ph.D. (Virginia)

Jack, Eric School of Business
Department of Management, Information Systems and Quantitative Methods, Associate Professor of Management; Dean, Faculty Development and Research, 2001, B.S. (Georgia Institute of Technology), M.B.A. (Wright State), Ph.D. (Cincinnati)

Jannett, Thomas C. School of Engineering
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

Janowski, Gregg M. School of Engineering
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 Matallurgy, Structure-Processing-Property Relationships

Jefferson, Robert F. College of Arts and Sciences

Department of History, Associate Professor of History, 2010, B.A. (Elon College), M.A. (Old Dominion), Ph.D. (Michigan)

Jenkins, David T. College of Arts and Sciences

Department of Biology, Associate Professor of Biology, 1974, B.S., Ph.D. (Tennessee); Research Interest: Mycology, Microbiology

Jenkins, Gavin School of Health Professions

Department of Rehabilitation Sciences, Assistant Professor (Occupational Therapy) , Ph.D., OTR/L, Assistive Technology and the Built Environment

Jennings, Patricia R. School of Health Professions

Department of Surgical Physican Assistant Studies, Professor; Infectious Diseases.

Jepkemboi, Grace School of Education

Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2008, B.Ed. (Egerton University, Kenya), M.A. (Moi University, Kenya), Ph.D. (UAB)

Jessee, Margaret Jay Colleg of Arts and Sciences

Department of English, Assistant Professor of English, 2013, B.A., M.A. (Tennessee), Ph.D. (Arizona)

Johnson, Margaret College of Arts and Sciences

Department of Chemistry, Assistant Professor of Chemistry, 2013, B.S., Ph.D. (Simon Fraser)

Johnson, Marlene College of Arts Science

Department of Theatre, Assistant Professor of Theater, 2006, B.A. (Asbury), M.A. (Miami-Oxford), M.F.A. (Virginia Commonwealth)

Johnson, Walter College of Arts and Sciences

Department of Mathematics, Instructor of Mathematics, Introductory Math Curriculum Director, 2002, B.S.EE. (Auburn), M.A.Ed. (UAB)

Johnston, Allen School of Business

Department of Management, Information Systems, and Quantitative Methods , Associate Professor of Information Systems, Director of Information Systems Programs, 2007, B.S. (LSU), M.B.A., PhD. (Mississippi)

Johnstone, John K. College of Arts and Sciences

Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences, 1994, B.S. (Saskatchewan-Canada), M.S., Ph.D. (Cornell)

Jolly, Pauline School of Public Health

Department of Epidemiology, Professor (Epidemiology); Infectious Disease Epidemiology, International Health and Global Studies

Jolly, Peggy B. College of Arts and Sciences

Department of English, Professor of English. Emerita., 1976, B.A. (Jacksonville), M.A. (Samford), Ph.D. (Alabama)

Jones, Carolynn School of Nursing

Instructor of Nursing, 2010, B.S. (George Peabody College for Teachers), B.S.N., M.S.P.H. (UAB)

Jones, Harold P. School of Health Professions

Professor and Dean, School of Health Professions, 2001, Ph.D. (Duke)

Jones, Warren T. College of Arts and Sciences

Department of Computer and Information Sciences, Professor Emeritus of Computer and Information Sciences, 1979, B.S.E.E. (Georgia Institute of Technology), M.S. (Georgia State), M.S., Ph.D. (Georgia Institute of Technology), P.E. (Kentucky)

Judd, Suzanne E. School of Public Health

Department of Biostatistics, Ph.D. (Emory), Assistant Professor. Vitamin D, Longitudinal Cohort Studies, Cystic Fibrosis and Bone Health, Data Management.

Jukkala, Angela School of Nursing

Associate Professor of Nursing, 2006, B.S.N. (Bemidji State), M.S., Ph.D. (Minnesota)

Jun, Ho-Wook School of Engineering

Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 2006, BS, MS (Hanyang University, South Korea), Ph.D. (Rice), Biomimetic nanotechnology, Biomaterials, Tissue engineering

Jung, Paul College of Arts and Sciences

Department of Mathematics, Assistant Professor of Mathematics, 2011, Ph.D. (University of California System: Los Angeles), Probability Theory and Statistical Mechanics

Kabagambe, Edmond Kato School of Public Health

Department of Epidemiology, Associate Professor (Epidemiology); Nutritional Epidemiology, Chronic Disease Epidemiology

Kain, Margaret M. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Senior Assistant Librarian; Electronic Resources Librarian; Cataloging Collection Management, Mervyn H Sterne Library, 2006, B.S. (Auburn-Montgomery), M.L.S. (Alabama)

Kana, Rajesh K. College of Arts and Sciences

Department of Psychology, Associate Professor of Psychology, 2007, B.S. (Calicut), M.A. (Annamalai), Ph.D. (Indian Institute of Technology)

Karpeshina, Yulia College of Arts and Sciences

Department of Mathematics, Professor of Mathematics, 1995, M.S., Ph.D. (Saint Petersburg, Russia), Partial Differential Equations and Mathematics Physics

Kasman, Yakov College of Arts and Sciences

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)

Katholi, Charles R. School of Public Health

Department of Biostatistics, Ph.D. (Adelphi), Professor Emeritus. Computationally Intensive Statistical Methods, Large Sample Theory, Use of Asymptotic Tests in the Presence of Small Samples, Estimation and Testing Infection Potential by Pool Screening.

Katra, Rodolphe P. School of Engineering

Department of Biomedical Engineering, Adjunct Assistant Professor, 2012, B.S.B.M.E. (Lousiana 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

Kawai, Ryoichi College of Arts and Sciences

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

Keitt, Andrew W. College of Arts and Sciences

Department of History, Associate Professor of History, 1999, B.A. (Duke), M.A., Ph.D. (UC-Berkeley)

Keltner, Norman School of Nursing

Professor of Nursing, 1990, B.S.N., M.S.N. (Fresno State), Ed.D. (San Francisco)

Kempf, Mirjam School of Nursing

Associate Professor of Nursing, 2010, M.P.H., (UAB), Ph.D. (Institute for Medical Microbiology and Hygiene, Julius-Maximilians-Universtat)

Kennedy, Jacqueline W. School of Health Professions

Department of Health Informatics, Adjunct Professor (Health Services Administration)

Kennedy, Karen School of Business

Department of Marketing, Industrial Distribution and Economics, Associate Professor of Marketing and Industrial Distribution; Senior Associate Dean, Programs and Outreach, 2001, B.S. (Blue Mountain), M.S. (Florida State), M.B.A. (Georgia State), Ph.D. (South Florida)

Kennedy, Karen School of Health Professions

Department of Administration Health Services, Associate Professor (Marketing); Cognitive Research, Diversity, Services Marketing, Organizational Culture, Interpersonal Trust Development, Qualitative Research Methods

Kennedy, Richard School of Public Health

Department of Biostatistics, Ph.D. (Virginia Commonwealth University), Assistant Professor. Longitudinal data modeling, cognitive function, clinical trials simulations, gene expression analysis.

Kerley, Kent College of Arts and Sciences

Department of Justice Sciences, Associate Professor and Honors Program Director, 2005, B.A. (East Tennessee State), M.A., Ph.D. (Tennessee), Corrections, Religion Cybercrime, Policy

Key, Susan School of Business

Department of Management, Information Systems, and Quantitative Methods , Associate Professor of Management, 1995, B.A., J.D., M.B.A. (Illinois), Ph.D. (Pittsburgh)

Kharlampieva, Eugenia College of Arts and Sciences

Department of Chemistry, Assistant Professor of Chemistry, 2010, B.S. (ChelyabinskSt.), Ph.D. (Stevens Institute of Technology)

Kightley, Michael College of Arts and Sciences

Department of English, Assistant Professor of English, 2009, B.A. (Toronto), M.A. (Queen's), Ph.D. (Western Ontario)

Kilgo, Jennifer L. School of Education

Department of Curriculum and Instruction, Professor of Special Education, 1995, B.A. (Auburn), M.A.Ed. (UAB), Ed.D. (Alabama)

Kilgore, Meredith School of Public Health

Department of Health Care Organization and Policy, PhD, Professor and Chair

Kim, Jong-Eun School fo Engineering

Department of Mechanical Engineering, Research Associate Professor of Mechanical Engineering, 2003, B.S., M.S., (Hanyang University, South Korea), Ph.D. (California, Davis), Computational Injury Biomechanics; Fluid Structure Interaction; Multidisciplinary Design Optimization

King, Jerry School of Health Professions

Department of Clinical and Diagnostic Sciences, Assistant Professor, Respiratory Therapy Program, 2008, M.S. (UAB)

King, Matthew College of Arts and Sciences

Department of Philosophy, Assistant Professor of Philosophy, 2014, B.A. (University of Virginia), M.A., Ph.D. (University of Maryland)

King, Pamela Sterne College of Arts and Sciences

Department of History, Assistant Professor of History, 2004, B.A. (Samford), M.A. (UAB)

Kirby, Jason School of Engineering

Department of Civil, Construction, and Environmental Engineering, Associate Professor of Civil, Construction and Environmental Engineering, 2005, B.S. (Auburn), M.S., Ph.D. (Alabama), Environmental Engineering, Water Resources, Hydraulics

Kirkland, Lynn School of Education

Department of Curriculum and Instruction, Professor of Early Childhood and Elementary Education, 1998, B.S., M.A.Ed., Ed.S. (UAB), Ed.D. (Alabama)

Kitchin, Elizabeth School of Health Professions

Health Focused Patient/Client Management for Physical and Occupational Therapists, PhD, RD, Assistant Professor of Nutrition Sciences

Kittredge, Brian College of Arts and Sciences

Department of Music, Assistant Professor of Music; Director of Choral Activities, 2010, B.M. (Mansfield), M.M. (Eastman), D.M.A. (LSU)

Klapow, Jashua C. School of Health Professions

Department of Administration Health Services, Assistant Professor (Health Care Organization and Policy); Outcome Evaluation, Health Related Quality of Life, Health Care Delivery Systems, Behavioral Medicine, Chronic Illness, Provider Behavior

Knight, Candace School of Nursing

Instructor of Nursing, 2012, B.S.N. (UAB)

Knight, David C. College of Arts and Sciences

Department of Psychology, Associate Professor of Psychology, 2007, B.S. (Truman State), M.S., Ph.D. (Wisconsin-Milwaukee)

Knowles, Cheryl J. School of Health Professions

Department of Physical Therapy, Associate Professor Emerita (Physical Therapy); Cardiopulmonary Physical Therapy

Knowles, Ian W. College of Arts and Sciences

Department of Mathematics, Professor of Mathematics, 1979, B.Sc. (Adelaide), M.Sc., Ph.D. (Flinders-South Australia), Ordinary and Partial Differential Equations, Numerical Analysis

Kohler, Connie School of Public Health

Department of Health Education and Health Promotion, Professor, SOPH, Health Behavior

Kohler, Maxie P. School of Education

Department of Human Studies , Professor of Educational Psychology and Research, 1991, B.S. (Univ. Miss. for Women), M.S., Ph.D. (Mississippi State)

Koomullil, Roy P. School of Engineering

Department of Mechanical Engineering, Associate Professor of Mechanical Engineering, 2002, B.S. (Mahatma Gandhi University, India), M.S. (Indian Institute of Technology, India), Ph.D. (Mississippi State), High Performance Computing; Six Degrees of Freedom Simulation; Bio-medical Flow Modeling

Kornegay, Randall W. School of Business

Department of Management, Information Systems, and Quantitative Methods, Instructor of Business Communication, 2006, B.A., M.A. (UAB)

Koskinen, Karla College of Arts Science

Department of Theatre, Professor of Theater, 2007, B.A. (Marquette), M.F.A. (Illinois State)

Krannich, Larry K. College of Arts and Sciences

Department of Chemistry, Professor Emeritus of Chemistry, 1969, B.S., M.S. (Illinois State), Ph.D. (Florida)

Kravchuk, Elena College of Arts and Sciences

Department of Mathematics, Instructor of Mathematics, 2002, M.S. (Donetsk State – Ukraine), Ph.D. (NASU, Donetsk – Ukraine)

Kulczycki, Andrezej School of Public Health

Department of Health Care Organization and Poicy, PhD, Associate Professor

Kurata, Marilyn J. College of Arts and Sciences

Department of English, Associate Professor of English. Emerita, 1978, B.S. (Carnegie Mellon), M.A., Ph.D. (Wisconsin)

Kwak, Sunjoo College of Arts and Sciences

Department of Public Administration, Assistant Professor (Government), 2002, B.A., M.P.A. (Hankuk Univ), Ph.D. (Rutgers), Public budgeting and finance, strategic planning, state and local government administration, administration theory and behavior.

Kyle, Chris College of Arts and Sciences

Department of Anthropology, Associate Professor of Anthropology; Interim Chair, 2000, B.A. (Ft. Lewis College), M.A., M.Phil., Ph.D. (Columbia)

Lake, Lauren College of Arts and Sciences

Department of Art Art History, Associate Professor of Art: Chair, 1996, BA (University of Florida), M.F.A. (Madison-Wisconsin)

Laken, Debra E. School of Health Professions

Department of Clinical and Diagnostic Sciences, Associate Professor, Respiratory Therapy Program, 1999, M.A.E. (UAB)

Lalor, Melinda M. School of Engineering

Department of Civil, Construction and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering; Interim Dean, School of Engineering, 1989, B.S. (Birmingham-Southern), M.S.C.E. (UAB), Ph.D. (Vanderbilt), Environmental Engineering, Water Resources, Sold Waste Management

Landry, Amy Y. School of Health Professions

Department of Health Administration, Assistant Professor (Health Services Administration) , Leadership, Strategic Management of Healthcare Organizations, Management Training and Development, Marketing

Langston, Summer School of Nursing

Assistant Professor of Nursing; Co-Coordinator of AMNP Program, 2009, B.S.N. (Southern Mississippi), M.S.N., D.N.P. (UAB)

Lanzi, Robin Gaines School of Public Health

Department of Health Education and Health Promotion, Associate Professor, SOPH Health Behavior

Lariscy, Nichole College of Arts and Sciences

Department of English, Assistant Professor of English, 2005, B.A. (Georgia College and State University), M.A. (Northwestern), Ph.D. (Wisconsin-Milwaukee)

Lawson, Christopher M. College of Arts and Sciences

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

Lee, Loretta School of Nursing

Assistant Professor of Nursing, 2002, B.S.N. (Alabama), M.S.N., Ph.D. (UAB)

Lee, Seung-Dong School of Business

Department of Marketing, Industrial Distribution, Economics, Professor of Economics, 1979, B.A., M.A. (Korea), M.A., Ph.D. (Southern Methodist)

Lee, Yookyong College of Arts and Sciences

Department of Social Work, Assistant Professor of Social Work, 2013, B.A., M.S.W. (Michigan), M.A., Ph.D. (Columbia)

Lein, Donald School of Health Professions

Health Focused Patient/Client Management for Physical and Occupational Therapists, PT, PhD, Assistant Professor of Physical Therapy

Lemons, Jack E. School of Engineering

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

Levitan, Emily B. School of Public Health

Department of Epidemiology, Assistant Professor (Epidemiology); Comparative Effectiveness Research, Cardiovascular Epidemiology, Epidemiologic Methods

Lewis, Angela K. College of Arts and Sciences

Department of Government, Associate Professor of Government, 2003, B.A. (Alabama), M.P.A., Ph.D., (Tennessee)

Lewis, Roger T. College of Arts and Sciences

Department of Mathematics, Professor Emeritus of Mathematics, 1975, A.B. (Tennessee), M.S. (Florida Institute of Technology), Ph.D. (Tennessee), Differential Equations, Spectral Theory

Lewis, Terri School of Public Health

Department of Health Education and Health Promotion, Assistant Professor, SOPH, Health Behavior

Li, JunFang College of Arts and Sciences

Department of Mathematics, Associate Professor of Mathematics, 2008, B.A. (Wuhan Univ., China), Ph.D. (Oklahoma), Geometric Analysis and Non-linear Partial Differential Equations

Liber, George O. College of Arts and Sciences

Department of History, Professor of History, 1987, B.A. (Indiana), M.A. (Harvard), Ph.D. (Columbia)

Lim, Hyeyoung College of Arts and Sciences

Department of Justice Sciences, Assistant Professor of Justice Sciences, 2013, Ph.D. (Sam Houston State), Police Use of Force, Police Decision Making, Quantitative Methods, Program and Policy Evaluation

Lingasubramanian, Karthikeyan School of Engineering

Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2011, Ph.D. (South Florida), Hardware Security, Reliability and Low Power Design for Digital VLSI Circuits and Systems

Linville, Jason G. College of Arts and Sciences

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

Littlefield, David L. School of Engineering

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

Loder-Jackson, Tondra School of Education

Department of Human Studies , Associate Professor of Foundations of Education, 2003, B.S. (Birmingham-Southern), M.P.P. (Chicago), Ph.D. (Northwestern)

Lokey, Larry H. School of Engineering

Department of Electrical and Computer Engineering, Instructor of Electrical and Computer Engineering, 2009, B.S.E., M.S.E.E. (UAB), Telecommunications, RC Communications, Engineering Education

Long, Ada College of Arts and Sciences

Department of English, Professor of English. Emerita, 1977, B.A. (Stanford), M.A., Ph.D. (SUNY-Albany)

Long, Jennifer M. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library, 1997, B. S. (Bowling Green), M.L.S. (Kent State)

Long, Sheri Spaine College of Arts and Sciences

Department of Foreign Language and Literature, Associate Professor of Spanish, 1992, B.A., M.A. (Iowa), Ph.D. (California-Los Angeles)

Lou, Xiang-Yang School of Public Health

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.

Lowman, John School of Health Professions

Department of Rehabilitation Sciences, Assistant Professor (Physical Therapy); Cardiopulmonary Physical Therapy

Lucas, Linda C. School of Engineering

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)

Lucius, Aaron L. College of Arts and Sciences

Department of Chemistry, Assistant Professor of Chemistry, 2006, B.S. (Oregon State), Ph.D. (Washington U.)

Lund, Donald School of Business

Department of Marketing, Industrial Distribution, and Economics, Assistant Professor of Marketing, 2009, B.S., M.B.A. (Missouri State) Ph.D. (Missouri, Columbia)

Lungu, Claudiu T. School of Public Health

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.

Mack, June College of Arts and Sciences

Department of Communication Studies, Associate Professor of Theatre, 2001, B.A. (Hollins), M.F.A. (Florida State), M.Ed. (Harvard)

Macrina, David M. School of Education

Department of Human Studies , Professor of Health Education, 1988, B.S. (Siena), M.S. (Massachusetts), Ph.D. (Illinois)

Maday, Kristopher School of Health Professions

Department of Surgical Physican Assistant Studies, Assistant Professor; Trauma

Madden, Kerry College of Arts and Sciences

Department of English, Associate Professor of English, 2009, B.A. (Tennessee), M.F.A. (Tennessee)

Maples, Elizabeth H. School of Public Health

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

March, Joe L. College of Arts and Sciences

Department of Chemistry, Associate Professor of Chemistry; Associate Director, Science and Technology Honors Program, 1999, B.S., M.S. (Southwestern Texas), Ph.D. (Texas)

Marion, Ken R. College of Arts and Sciences

Department of Biology, Professor Emeritus of Biology, 1971, B.A., Ph.D. (Washington University, St. Louis), Animal Natural History and Aquatic Environmental Biology

Marstrander, Jon School of Engineering

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

Martin, Heather Mervyn H. Sterne Library

Mervyn H. Sterne Library, Associate Librarian, Reference Services, Mervyn H. Sterne Library, 1998, B.A. (Furman), M.A., M.L.I.S. (South Carolina)

Martin, Warren S. School of Health Professions

Department of Administration Health Services, Professor (Marketing); Survey Research, Marketing Strategy, Professional Sales Strategy, Decision Making

Martyshkin, Dmitri V. College of Arts and Sciences

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

Mayer, John C. College of Arts and Sciences

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 Profesor 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 Ain 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

Department of English, Professor of English, 1998, B.A., M.A. (Illinois State), Ph.D. (Purdue)

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

McCurry, Valley School of Health Professions

Department of Occupational Therapy, Assistant Professor, OTR/L, MBA

McCutcheon, 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 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-Bodies 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.

Mohl, 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

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 Instumentation, 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 Nutrtition

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

Department of History, Instructor of Digital Community Studies, 2010, B.A. (UAB); M.A. (Alabama)

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

Mervyn H. Sterne Library, III, Associate Librarian: Head, User Services, Mervyn H. Sterne Library, 1988, B.A. (Samford), M.L.S., Ed.S., Ed.D. (Alabama)

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 Nacíonal 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'Neil, 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 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 Currirulum 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

Mervyn H. Sterne Library, Associate Librarian, Cataloging Collection Management, Mervyn H. Sterne Library, 1988, B.S. (Montevallo), M.A. (UAB), M.L.S. (Alabama)

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

Department of English, Professor of English, 1986, B.A., M.A. (Oxford), M.A., Ph.D. (Vanderbilt)

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 Adminsitration, 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 Physican 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. (Creghton), 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. Colleg 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 Peck 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 fo 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, Idustrial 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

Roussel, 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 James 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

Sathiakumar, 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, Nitesh 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
Mervyn H. Sterne Library, Associate Librarian, Cataloging Collection Management, Mervyn H. Sterne Library, 1978, B.A. (Cornell), M.A. (North Carolina), M.L.S. (Kentucky)

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

Department of Civil, Construction, and Environmental Engineering, Professor Emeritus of Civil and Environmental Engineering, 1990, B.S.C.E., M.S.C.E. (Texas), Ph.D. (Texas AM), P.E. (Alabama, Texas, Oklahoma, Tennessee), Engineering Education, Engineering Mechanics, Structural 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 Orgranization 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

Department of Human Studies , Instructor in Counselor Education, 1991, B.A., M.A. (UAB), Ph.D. (Alabama)

Sheng, Shibin (Simon) School of Business

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 College of Arts and Sciences

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

Mervyn H. Sterne Library, Senior Assistant Librarian, Cataloging Collection Management, Mervyn H. Sterne Library, 2008, B.A. (Rhodes College), M.L.S. (Indiana-Bloomington)

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. (Roláná Eötvös - Hungary), Dr.M.S. (Hungarian Academy of Sciences), Dynamical Systems, Ergodic Theory, Topology

Sisiopiku, Virginia P. School of Engineering

Department of Civil, Construction, and Environmental Engineering, Associate Professor of Civil, Construction and Environmental Engineering, 2002, B.S. (Aristotelian University of Thessaloniki), M.S., Ph.D. (Illinois-Chicago), Transportation Engineering, Traffic Engineering

Skjellum, Anthony College of Arts and Sciences

Department of Computer and Information Sciences, Professor of Computer and Information Sciences; Chair, Department of Computer and Information Sciences, 2003, B.S., M.S., Ph.D. (California Institute of Technology)

Slaughter, Lauren College of Arts and Sciences

Department of English, Assistant Professor of English, 2007, B.A. (Kenyon), M.F.A. (Alabama), M.A. (Montana)

Sloan, John College of Arts and Sciences

Department of Justice Sciences, Professor and Chair, Department of Justice Sciences, 1988, B.S., M.A. (Eastern Michigan), Ph.D. (Purdue), Victimization and Fear of Victimization, Campus Crime, Policy, Program Evaluation, Professional Ethics

Sloan, Kenneth College of Arts and Sciences

Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences; Associate Professor of Biomedical Engineering, 1990, Sc.B. (Brown), M.S. (Stevens Institute of Technology), Ph.D. (Pennsylvania)

Sloane, Michael E. College of Arts and Sciences

Department of Psychology, Associate Professor of Psychology, Director, University Honors Program, 1982, B.A., M.A. (University College, Dublin), Ph.D. (Northwestern)

Slovensky, Donna J. School of Health Professions

Professor of Health Services Administration; Associate Dean, School of Health Professions, 1996, Ph.D. (UAB)

Smith, Angel School of Business

Department of Accounting and Finance, Instructor of Accounting, 2008, B.S., MAc. (UAB)

Smith, Daniel L. Jr School of Health Professions

Department of Nutrition Sciences, PhD Assistant Professor (Nutrition Sciences); The interaction of diet and metabolism in relationship to aging and disease; obesity, calorie restriction, brown adipose tissue

Smith, Glenda School of Nursing

Assistant Professor of Nursing, 2006, B.S.N., (North Carolina Central), M.S.N. (Vanderbilt), D.S.N. (Texas-Houston Health Science Center)

Smith, Myra School of Nursing

Assistant Professor of Nursing, 2009, B.S.N., M.S.N. (UAB), Ph.D. (Texas)

Smith, Nancy School of Nursing

Instructor of Nursing, 2010, B.S.N. (Vanderbilt), M.S.N. (UAB)

Smith, Tedra School of Nursing

Instructor of Nursing, 2012, B.S.N. (Auburn), M.S.N., D.N.P. (UAB)

Smith, Tommy G. School of Education

Department of Curriculum and Instruction, Associate Professor of High School Education, 1989, B.S., M.S., Ed.D. (Auburn)

Smith, William M. School of Engineering

Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering, 1994, B.S. (Oglethorpe), Ph.D. (Duke)

Snyder, Scott W. School of Education

Department of Human Studies , Associate Professor of Research and Early Childhood Special Education, 1988, B.A. (SUNY-Potsdam), M.S., Ph.D. (Purdue)

Soleymani, Taraneh School of Health Professions

Department of Nutrition Sciences, MD Assistant Professor (Nutrition Sciences); Clinical nutrition, Weight lost and management.

Solorio, Thamar College of Arts and Sciences

Department of Computer and Information Sciences, Assistant Professor of Computer and Information Sciences, 2009, B.S. (Universidad Autónoma de Chihuahua, Mexico), M.S. (Instituto Nacional de Astrofísica,Óptica y Electrónica [INAOE], Mexico), Ph.D. (INAO, Mexico)

Somerall, D'Ann School of Nursing

Assistant Professor of Nursing, 2010, B.S., M.S., B.S.N., M.S.N., D.N.P. (UAB)

Song, Yuhua School of Engineering

Department of Biomedical Engineering, Assistant Professor of Biomedical Engineering, 2006, 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

Sorge, Robert College of Arts and Sciences

Department of Psychology, Assistant Professor of Psychology, 2012, H.B.Sc. (McMaster), M.A. (Wilfrid Laurier), Ph.D. (Concordia)

Spence, Paul H. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Professor Emeritus, Mervyn H. Sterne Library, 1970, A.B., M.A. (Emory), Ph.D. (Illinois)

Spezzini, Susan K. School of Education

Department of Curriculum and Instruction, Associate Professor of English as a Second Language, 2005, B.A. (California), M.A. (California), Ph.D. (Alabama)

Sprague, Alan P. College of Arts and Sciences

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

Mervyn H. Sterne Library, Librarian and Director, Mervyn H. Sterne Library, 1974, B.S., M.B.A. (UAB), M.L.S., Ph.D. (Alabama)

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)

Strevy, 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

Department of Civil, Construction, and Environmental Engineering, Instructor of Civil, Construction and Environmental Engineering, 2009, B.S.C.E. (Pennsylvania), M.S.C.E. (UAB), P.E. (Alabama), Transportation Engineering, Traffic Operations

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

Szaflarski, Magdalena College of Arts and Sciences

Department of Sociology, Assistant Professor of Sociology, 2012, B.A., M.A. (University of Michigan), Ph.D. (University of Cincinnati)

Sánchez-López, Lourdes College of Arts and Sciences

Department of Foreign Language and Literature, Associate Professor of Spanish; Director, Spanish for Specific Purposes Certificate Program, 2001, B.A. (Universidad de Granada), M.A. (Southern Mississippi), M.A., Ph.D. (Universidad de Jaén)

Taherian, Hessam School of Engineering

Department of Mechanical Engineering, Assistant Professor of Mechanical Engineering, 2010, B.S. (Isfahan University of Technology, Iran), M.S. (Amirkabir University of Technology, Iran), Ph.D. (Dalhousie, Canada)

Talbot, Thomas F. School of Engineering

Department of Mechanical Engineering, Professor Emeritus of Mechanical Engineering, 1967, B.M.E. (Auburn), M.S. (California Institute of Technology), Ph.D. (Georgia Institute of Technology), P.E. (Alabama, Georgia, Tenneessee), Convection Heat Transfer; Renewable Energies; Building Energy Conservation

Talbott Forbes, Laura L. 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)

Talley, Michele School of Nursing

Instructor of Nursing, 2009, B.S.N. (Alabama), M.S.N. (UAB)

Tanik, Murat M. School of Engineering

Department of Electrical and Computer Engineering, Professor of Electrical and Computer Engineering, 1998, B.S. (Middle East Technical), M.C.S., Ph.D. (Texas AM), Software Systems Engineering, Quantum Information Theory, Embedded Systems

Tanju, Deborah W. School of Health Professions

Department of Administration Health Services, Professor (Accounting); Internal Auditing, Financial Accounting

Taratoot, Cole College of Arts and Sciences

Department of Public Administration, Assistant Professor (Government), B.S. (Georgia), M.P.A., Ph.D. (West Georgia), Administrative law, judicial politics, constitutional law, quantitative analysis

Taub, Edward College of Arts and Sciences

Department of Psychology, University Professor of Psychology, 1986, B.A. (Brooklyn), M.A. (Columbia), Ph.D. (New York)

Taylor, Jennifer School of Business

Department of Marketing, Industrial Distribution, Economics, Assistant Professor of Marketing, 2011, B.S. (Clemson University), M.B.A., Ph.D. (Georgia State University)

Temple, Cheryl College of Arts and Sciences

Department of English, Instructor of English, 2005, B.S. (Missouri), M.A. (Chapman)

Temple, Gale M. College of Arts and Sciences

Department of English, Associate Professor of English; Director, Graduate Studies, 2001, B.S. (Michigan), M.A., Ph.D. (Loyola-Chicago)

Terndrup, Thomas E. School of Health Professions

Department of Health Informatics, M.D., Professor (Emergency Medicine)

Thacker, Robert. W. College of Arts and Sciences

Department of Biology, Professor of Biology, 2000, B.S. (Duke), M.S., Ph.D. (Michigan), Ecology and Systematics

Theodore, George M. School of Education

Department of Human Studies , Assistant Professor of Educational Leadership, 2005, B.A. (Birmingham Southern), M.A. (UAB), Ed.S. (UAB), Ph.D. (Alabama/UAB)

Thomas, Vinoy School of Engineering

Department of Materials Science and Engineering, Research Assistant Professor of Materials Science and Engineering, 2007, B.S., M.S. (University of Kerala, India), Ph.D. (Sree Chitra Tirunal Institute for Medical Sciences Technology, India), Polymeric Biomaterials and 3D Composite Scaffolds for Tissue Engineering, Nanomaterials and Nanodiamonds for Biomedical Applications, Green Materials Synthesis and Structure-Property Relationships

Tofani, Peter School of Nursing

Assistant Dean of Student Affairs; Instructor of Nursing, 2008, B.S. (The United States Military Academy), MS (Pennsylvania State)

Tollefsbol, Trygve College of Arts and Sciences

Department of Biology, Professor of Biology, 1998, B.S. (Houston), M.S., D.O., Ph.D. (North Texas Health Sciences Center), Gene Regulation in Cancer and Aging

Tomlinson, Dale School of Nursing

Instructor of Nursing; RN-BSN Coordinator, 2007, B.S.N., M.S.N., D.N.P. (UAB), M.N. (LSU)

Treutel, Rita B. College of Arts and Sciences

Department of English, Instructor of English, 1998, B.S. (Auburn), M.A. (UAB)

Trimm, Jerry M. School of Health Professions

Department of Health Services Administration, Associate Professor, Health Care Management, 2006, Ph.D. (UAB)

Tsoi, Georgiy College of Arts and Sciences

Department of Physics, Research Assistant Professor of Physics, 2005, M.Sc. (Karkov, Ukraine), Ph.D. (NAS, Ukraine), Structural, magnetic and electrical properties of materials under high pressure

Tucker, Diane C. College of Arts and Sciences

Department of Psychology, Professor of Psychology, Director, Science and Technology Honors Program, 1984, B.S., M.S., Ph.D. (Iowa)

Tucker, Jalie School of Public Health

Department of Health Education and Health Promotion, Professor, SOPH, Health Behavior

Turan, Bulent College of Arts and Sciences

Department of Psychology, Assistant Professor of Psychology, 2011, B.S. (Bogazici), M.A. (Loyola), Ph.D. (Stanford)

Turan, Janet M. School of Public Health

Department of Health Care Organization and Policy, PhD, Associate Professor

Turel, Noa College of Arts and Sciences

Department of Art Art History, Assistant Professor of Art History, 2012, B.A. (State University of New York), M.A. (University of London), Ph.D. (California-Santa Barbara), Renaissance and Baroque Art

Turner, Kevin College of Arts and Sciences

Department of Music, Instructor of Music, 1998, B.A. (Trinity)

Turner, Lori School of Public Health

Department of Health Education and Health Promotion, Adjunct Professor, UA Health Science

Turner-Henson, Anne School of Nursing

Professor of Nursing, 1982, B.S.N. (Medical College of Georgia), M.N. (Emory), D.S.N. (UAB)

Twieg, Donald B. School of Engineering

Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering, 1990, B.A., M.S. (Rice), Ph.D. (Southern Methodist)

Tyson, Lawrence E. School of Education

Department of Human Studies , Associate Professor of Counselor Education, 1997, B. A. (Atlantic Christian), M.Ed. (Rollins), Ph.D. (Mississippi State)

Uddin, Nasim School of Engineering

Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering, 2001, B.S. (University of Engineering and Technology, Bangladesh), M.S. (Oklahoma-Norman), Ph.D. (SUNY Buffalo), P.E. (New York), Structural Engineering, Wind and Seismic Loads, Bridge Design

Usdan, Stuart School of Public Health

Department of Health Education and Health Promotion, Adjunct Professor; UA, Health Science

Uswatte, Gitendra College of Arts and Sciences

Department of Psychology, Professor of Psychology, 2001, B.A. (Princeton), M.A., Ph.D., (UAB)

Vaidya, Uday K. School of Engineering

Department of Materials Science and Engineering, Professor of Materials Science and Engineering, 2001, B.S.M.E. (Karnataka University, India), M.S. (Shivaji University, India), Ph.D. (Auburn), Composites Application Development; Thermoset and Thermoplastic Polymer Matrix Composites; Design, Manufacturing Processing Modeling; Nondestructive Evaluation and Dynamic Response; RD to Commercialization

Van Matre, Joseph G. School of Business

Department of Management, Information Systems, and Quantitative Methods , Professor of Quantitative Methods, 1971, B.E.E., M.B.A. (Auburn), Ph.D. (Alabama)

Van Sant, John E. College of Arts and Sciences

Department of History, Associate Professor of History, 2000, B.A., M.A. (UC-Davis), Ph.D. (Oregon)

Vance, David School of Nursing

Associate Professor of Nursing; Ph.D. Program Coordinator, 2004, B.S. (Virginia Tech), M.S. (New Orleans), M.G.S. (Miami), Ph.D. (UAB)

Vantsevich, Vladimir V. School of Engineering

Department of Mechanical Engineering, Professor of Mechanical Engineering, 2012, Dip.-Eng., Ph.D. (Belarusian National Technical University, Minsk, Belarus), D.Sc. (State Supreme Attestation Board, Moscow, Russia), Mechatronic Systems Design, Modeling and Control; Manned/Unmanned Ground Vehicle Dynamics and Design; Dynamics and Design of Robotic Manipulators

Vaughan, Laura Kelly School of Public Health

Department of Biostatistics, Ph.D. (Texas AM), Research Assistant Professor. Genetic Linkage and Association Studies, Population Stratification, Bioinformatics.

Vaughan, Loy O. Jr. College of Arts and Sciences

Department of Mathematics, Associate Professor of Mathematics, 1969, B.A. (Florida State), M.S., Ph.D. (Alabama)

Vaughn, Gregg L. School of Engineering

Department of Electrical and Computer Engineering, Professor of Electrical and Computer Engineering, 1979, B.S.E.E., M.S.E.E, Ph.D. (Alabama), P.E. (Alabama), Digital Communication, Image Processing, Radiation Effects

Velu, Sadanandan College of Arts and Sciences

Department of Chemistry, Assistant Professor of Chemistry, 2002, B.Sc., M.Sc. (Calicut – India), Ph.D. (Madras – India)

Vetter, Imelda L. Mervyn H. Sterne Library

Mervyn H. Sterne Library, Assistant Librarian, Reference Services, Mervyn H. Sterne Library, 2007, B.A. (Oberlin), M.L.S. (Indiana)

Vice, John E. School of Health Professions

Department of Health Administration, Associate Professor (Health Services Administration), Pediatric Medicine Leadership and Governance, Development and Industry Relations

Vincent, Janice School of Nursing

Assistant Professor of Nursing, 1983, B.S.N. (Samford), M.S.N. (Medical College of Georgia), D.S.N. (Alabama)

Vines, Adam College of Arts and Sciences

Department of English, Assistant Professor of English, 2006, B.A., M.A. (UAB), M.F.A. (Florida)

Vogtle, Laura School of Health Professions

Health Focused Patient/Client Management for Physical and Occupational Therapists, Associate Professor of Occupational Therapy, PhD, OTR/L, FAOTA

Vohra, Yogesh K. College of Arts and Sciences

Department of Physics, Professor of Physics, University Scholar, Associate Dean, 1992, B.S., M.S. (Delhi, India), Ph.D. (Bombay, India), High Pressure Materials Research, Growth and Characterization of Synthetic Diamond, and Nanoscale Materials for Biomedical Applications

Voltz, Deborah L. School of Education

Department of Curriculum and Instructino, Professor of Special Education; Dean, School of Education, 2003, B.A. (Evanston), M.A.Ed. (UAB), Ed.D. (Alabama)

Vyazovkin, Sergey College of Arts and Sciences

Department of Chemistry, Professor of Chemistry, 2001, B.M.S., M.A., Ph.D., (Belorussian – Russia)

Wadas, Theresa School of Nursing

Instructor of Nursing, 2004, B.S.N., (Troy State), M.S.N. (UAB)

Walden, Carolyn Mervyn H. Sterne Library

Mervyn H. Sterne Library, Associate Librarian; Head, Cataloging Collection Management, Mervyn H. Sterne Library, 1978, B.M., M.A. (Iowa), M.M. (Cincinnati)

Waldron, Christopher School of Engineering

Department of Civil, Construction, and Environmental Engineering, Assistant Professor of Civil, Construction and Environmental Engineering, 2008, B.S.C.E. (Drexel); M.S.C.E., Ph.D. (Virginia Tech), P.E. (Commonwealth of Pennsylvania), Structural Engineering, Bridge Design, Engineering Mechanics

Waldron, Sally School of Engineering

Department of Civil, Construction, and Environmental Engineering, Instructor of Civil, Construction and Environmental Engineering, 2009, B.Sc. (Tennessee Tech), M.S.C.E. (Virginia State)

Waldrum, Michael R. School of Health Professions

Department of Health Informatics, M.D., Professor (Internal Medicine/ Pulmonary Critical Care Medicine)

Walker, Chris D. College of Arts and Sciences

Department of Social Work, Assistant Professor of Social Work, 1999, B.S.S.W., M.S.W. (Alabama)

Walker, Deborah Kirk School of Nursing

Assistant Professor of Nursing, 2009, B.S.N., M.S.N. (Troy), D.N.P. (South Alabama)

Walker, Joe School of Business

Department of Accounting and Finance, Associate Professor of Finance, 1987, B.A., B.S. (Baylor), Ph.D. (Texas AM)

Wallace, Gail College of Arts and Sciences

Department of Sociology, Assistant Professor of Sociology, 2008, B.A. (California-Davis), M.A. (California State- Sacramento), Ph.D. (Iowa State)

Walsh, Peter M. School of Engineering

Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2002, B.S. (Robert College, Turkey), M.A. (Wesleyan), Ph.D. (Cornell), Carbon Dioxide Sequestration; Combustion in Industrial Furnaces and Electric Utility Boilers; Control of Air Pollutant Emissions from Combustion

Wang, Pengfei College of Arts and Sciences

Department of Chemistry, Assistant Professor of Chemistry, 2005, B.E., B.Sc. (Tsinghua, China), M.S. (Illinois-Chicago), Ph.D. (Wisconsin)

Wang, Xujing College of Arts and Sciences

Department of Physics, Associate Professor of Physics, 2008, B.S. (NanKai, China), Ph.D. (Texas AM), Theoretical physics; network theory; biophysics; theoretical and mathematical biology; genetics

Wang, Yu-mei School of Education

Department of Curriculum and Instruction, Associate Professor of Educational Technology, 2002, B.A. (Harbin Normal – China), Ph.D. (Oregon-Eugene)

Ward Jr., William A. School of Engineering

Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2001, B.A. (South Alabama), M.S., Ph.D. (Purdue), Computer Performance Evaluation; High Performance Computing; Numerical Analysis

Ward, Walter D. College of Arts and Sciences

Department of History, Assistant Professor of History, 2010, B.A., M.A., (NCSU), M.A., Ph.D. (UCLA)

Warner, Daniel College of Arts and Sciences

Department of Biology, Assistant Professor of Biology , 2012, B.S. (Iowa State), M.S. (Virginia Tech), Ph.D. (Sydney), Ecology and Evolutionary Biology

Warner, Gary College of Arts and Sciences

Department of Justice Sciences, Instructor and Director of Research in Computer Forensics, 2007, B.S. (UAB), Digital Forensics, Cybercrime and Security

Warner, Vessela College of Arts Science

Department of Theatre, Assistant Professor of Theater, 2007, M.A. (Sofia University, Bulgaria), M.F.A. (National Conservatory of Theater, Bulgaria), Ph.D. (Washington)

Warren, Mary School of Health Professions

Health Focused Patient/Client Management for Physical and Occupational Therapists, Associate Professor of Occupational Therapy, PhD, OTR/L, SCLV, FAOTA

Wasko, Molly McLure School of Business

Department of Management, Information Systems, and Quantitative Methods , Associate Professor of Management; Chair, Department of Management, Information Systems, and Quantitative Methods, 2010, B.B.A., B.A. (James Madison), M.B.A. (Averett), Ph.D. (Maryland, College Park)

Waterbor, John W. School of Public Health

Department of Epidemiology, Associate Professor (Epidemiology); Cancer Epidemiology and Control, Injury Epidemiology and Control, Epidemiologic Methods

Watkins, Charles L. College of Arts and Sciences

Department of Chemistry, Professor of Chemistry, 1970, B.S. (Alabama), M.S., Ph.D. (Florida)

Watson, R. Douglas College of Arts and Sciences

Department of Biology, Professor of Biology, 1988, B.S. (Southern Utah State), Ph.D. (Iowa), Endocrinology and Developmental Biology

Watts, Penni School of Nursing

Instructor Director of Clinical Simulation and Training, 2002, B.S.N. (Auburn), M.S.N. (Troy State)

Watts, Stephen A. College of Arts and Sciences

Department of Biology, Professor of Biology, 1987, B.S. (Auburn), M.S., Ph.D. (South Florida), Aquatic and Marine Biology

Waugh, Jonathan B. Department of Health Professions

Department of Clinical and Diagnostic Sciences, Associate Professor, Respiratory Therapy Program, 1999, Ph.D. (Ohio State)

Wech, Barbara School of Business

Department of Management, Information Systems, and Quantitative Methods , Associate Professor of Management, 2001, B.S. (Wayne State), M.B.A. (Michigan State), Ph.D. (Louisiana State)

Weech-Maldonado, Robert School of Health Professions

Department of Health Administration, Professor and L. R. Jordan Endowed Chair (Health Services Administration): Health Disparities, Health Services Research, Long-term Care, Patient Satisfaction

Weikard, Rudi College of Arts and Sciences

Department of Mathematics, Professor of Mathematics; Chair, Department of Mathematics, 1990, Ph.D. (Technical University of Braunschweig, Germany), Ordinary and Partial Differential Equations, Mathematical Physics

Weissman, Norman R. School of Health Professions

Department of Health Informatics, Ph.D., Professor (Health Services Administration)

Wells, Jaclyn College of Arts and Sciences

Department of English, Assistant Professor of English, 2013, B.A. (Knox), M.A. (Southern Illinois University Carbondale), Ph.D. (Purdue)

Wenger, Lowell E. College of Arts and Sciences

Department of Physics, Professor of Physics, 2003, B.S., M.S., Ph.D. (Purdue), Synthesis and characterization of magnetic materials, magnetic nanostructures, and high-temperature superconductors

Whall, Mary B. College of Arts and Sciences

Department of Philosophy, Assistant Professor of Philosophy, 1993, B.S., B.A. (UAB), Ph.D. (Georgia)

Wheeler, Anne P. College of Arts and Sciences

Department of Justice Sciences, Teaching Assistant Professor and Pre-Law Program Director, 2013, J.D. (Harvard), Criminal Law, Procedure and Evidence, Law and Society, Litigation Skills and Strategies, Professional Ethics

White, Kari School of Public Health

Department of Health Care Organization and Policy, PhD, Assistant Professor

Wibbels, Thane College of Arts and Sciences

Department of Biology, Professor of Biology, 1993, B.S. (Nebraska), M.S. (Houston), Ph.D. (Texas AM), Reproductive and Conservation Biology

Wick, Timothy M. School of Engineering

Department of Biomedical Engineering, Professor and Chair of Biomedical Engineering, 2005, B.S. (Colorado), Ph.D. (Rice), Tissue engineering and regenerative medicine, Bioreactor design, Drug delivery

Wilkinson, Larrell School of Education

Department of Human Studies, Assistant Professor, 2012, B.S. (Tennessee State University), MSPH, Ph.D. (University of South Carolina), Health Education, Health Disparities/Health Equity, Access and utilization of health care services, Substance Abuse

Williams, Anne School of Nursing

Assistant Professor of Nursing, 1994, B.S.N. (Cornell), M.S., Ph.D. (Arizona)

Wills, Edward L. College of Arts and Sciences

Department of Physics, Research Associate Professor Emeritus of Physics, 1972, B.S., M.S. (Auburn), Ph.D. (Virginia)

Wilson, Craig School of Public Health

Department of Epidemiology, Professor (Epidemiology); Infectious Disease Epidemiology; International Health and Global Studies

Wilson, Lynda School of Nursing

Assistant Dean for International Affairs; Professor of Nursing, 1997, B.S.N. (North Carolina Chapel Hill), M.S.N. (Delaware), Ph.D. (Tennessee)

Wingate, Martha School of Public Health

Department of Health Care Organization and Policy, DrPH, Associate Professor

Wingo, Brooks School of Health Professions

Department of Occupational Therapy, Assistant Professor, Research and Advising, Ph.D., MSW

Wiser Jr., Frank R. School of Nursing

Director of Grants Contracts; Instructor of Nursing, 2009, B.A., M.P.A. (Central Florida)

Wittig, John W. College of Arts and Sciences

Department of Communication Studies, Interim Chair, Department of Communication Studies; Associate Professor of Communication Studies, 1981, A.B. (Carson-Newman), M.A. (Florida), Ph.D. (Southern Illinois)

Woods, Stephanie School of Nursing

Instructor of Nursing, 2003, B.S.N. (Alabama), M.S.N. (UAB)

Worrell, James L. School of Business

Department of Accounting and Finance, Assistant Professor of Accounting, 2008, B.S., M.Ac., Ph.D. (Florida State)

Wright, Erin College of Arts and Sciences

Department of Art Art History, Associate Professor of Art, 2001, B.F.A. (Colorado State), M.F.A. (Arizona)

Xu, Nuo School of Business

Department of Management, Information Systems, and Quantitative Methods, Assistant Professor of Quanitative Methods, 2010, B.S. (Shanghai Jiao Tong University), M.S., Ph.D. (Cincinnati)

Yao, Xincheng School of Engineering

Department of Biomedical Engineering, Assistant Professor of Biomedical Engineering, 2007, B.S., M.S. (Harbin University of Technology), Ph.D. (Institute of Physics of the Chinese Academy of Sciences), Optical imaging of neural function, Optical coherence tomography

Yates, Stephanie School of Business

Department of Accounting and Finance, Associate Professor of Finance, 2007, B.S., M.A., M.B.A. (Cincinnati), Ph.D. (LSU)

Yeun, Hon School of Health Professions

Department of Rehabilitation Sciences, Professor and Director of Research

Yoder, Stephen A. School of Business

Department of Marketing, Industrial Distribution, Economics , Assistant Professor of Legal Studies; Director, School of Business Honors Program, 2008, A.B. (Duke), J.D. (Northwestern University School of Law)

Young, Jennifer College of Arts and Sciences

Department of English, Instructor of English, 2007, B.A. (Whittier), M.A. (Tulane)

Young, John H. College of Arts and Sciences

Department of Physics, Professor Emeritus of Physics, 1969, B.A. (Gettysburg), M.S. (New Hampshire), Ph.D. (Clark)

Younger, Jarred W. College of Arts and Sciences

Department of Psychology, Associate Professor of Psychology, 2014, B.A. (Maryville), Ph.D. (Tennessee)

Yu, Pele School of Health Professions

Department of Health Informatics, M.D., Adjunct Instructor

Yuen, Hon School of Health Professions

Department of Occupational Therapy, Professor and Director of Research, Ph.D., OTR/L

Zahariadis, Nikolaos College of Arts and Sciences

Department of Government, Professor of Government, 1998, B.A. (Slippery Rock), M.A., Ph.D. (Georgia)

Zayzafoon, Lamia Ben Youssef College of Arts and Sciences

Department of Foreign Language and Literature, Assistant Professor of Foreign Languages, 2005, Maîtrise (Université du Centre, Tunisia), M.A., Ph.D. (Michigan State)

Zeng, Yanni College of Arts and Sciences

Department of Mathematics, Associate Professor of Mathematics, 1997, B.S., M.S. (Zhongshan, China), Ph.D. (New York), Nonlinear Analysis, Applied Partial Differential Equations

Zhand, Xiao School of Public Health

Departtment of Biostatistics, Ph.D. (UCLA), Research Assistant Professor. Bayesian Computation, Clinical Trials.

Zhang, Chengcui College of Arts and Sciences

Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences, 2004, B.S., M.S. (Zhejiang University, China.), Ph.D. (Florida International)

Zhi, Degui School of Public Health

Department of Biostatistics, Ph.D. (UCSD), Assistant Professor. Protein sequence and structure analysis, Bioinformatics, Next-generation sequencing data analysis.

Zimmerman-Brown, Veronique School of Education

Department of Human Studies , Instructor of Leadership, Special Education, and Foundations, 2007, B.S. (Alabama State), M.A.E. (UAB)

Zimmerman-Brown, Veronique School of Education

Department of Curriculum and Instruction, Instructor of Pre-Professional Coursework, 2007, B.S. (Alabama State); M.A.Ed., Ed.S., Ph.D (UAB)

Zingara, James College of Arts and Sciences

Department of Music, Assistant Professor of Music; Assistant Director of Bands, 2011, B.S. (Wisconsin-La Crosse), M.M. (East Carolina), D.M.A. (Illinois)

Zou, Henghui College of Arts and Sciences

Department of Mathematics, Associate Professor of Mathematics, 1994, B.S. (Xiangtan, P.R.C.), M.S. (Peking, P.R.C.), Ph.D. (Minnesota), Nonlinear Partial Differential Equations, Nonlinear Analysis

Zuckerman, Edward D. College of Arts Science

Department of Theatre, Associate Professor of Theatre, 1999, B.A. (Westchester State), M.F.A. (Wayne State)

Zvanut, Mary E. College of Arts and Sciences

Department of Physics, Professor of Physics, 1992, B.S., M.S., Ph.D. (Lehigh), Electrical studies and EPR studies of insulators and semiconductors; microelectronics and optoelectronics

Index

A

Academic and Student Resources 11
Accounting and Finance 238
Admission 12
African American Studies 84
American Studies 86
Anthropology 97
Art and Art History 99

B

Biology 111
Biomedical 261

C

Chemistry 117
Civil, Construction, and Environmental 264
Clinical and Diagnostic Sciences 275
College of Arts and Sciences 83
Communication Studies 126
Completion of a Degree 69
Computer and Information Sciences 129
Core Curriculum 294
Course Descriptions 298
Curriculum and Instruction 213

E

Electrical and Computer 268
EMSAP 204
English 133
Environmental Science 87
Experiential Learning Scholars 204

F

Faculty Listing 493
Film 87
Financial Information 35
Foreign Languages and Literatures 147

G

General Information 5
Gerontology 88
Government 153

H

Health Care Management 279
Health Services Administration 279
History 155
Honors College 203
Human Studies 225

I

Interdisciplinary Programs 83
International Studies 89

J

Justice Sciences 157

M

Management, Information Systems, and Quantitative Methods 243
Marketing, Industrial Distribution and Economics 247
Materials Science and Engineering 269
Mathematics 161
Mechanical 272
Media Studies 93
Medical Technology 275
Music 165

N

Natural Science 94
Neuroscience 94
New Student Orientation 18
Nuclear Medicine Technology 277

P

Peace, Justice and Ecology 96
Philosophy 182
Physics 186
Progress Toward a Degree 59
Psychology 190

R

ROTC 81

S

School of Business 232
School of Education 210
School of Engineering 255
School of Health Professions 274
School of Nursing 283
School of Public Health 290
Science and Technology Honors 205
Social Work 193
Sociology 194
Student Academic Engagement 76
Student Life Activities and Organizations 19

Student Services and Facilities 27

T

The UAB Undergraduate Academic Experience 71

Theatre 198

Trustees and Administration 9

U

University Honors Program 207

W

Women's and Gender Studies 96